REPORT

2022 Semi-Annual Groundwater Monitoring and Corrective Action Report

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

Submitted to:

Georgia Power

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Certification

This *2022 Semi-Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company - Plant McDonough-Atkinson Ash Pond 2 and 3/4* has been prepared in compliance with the United States Environmental Protection Agency coal combustion residual rule [40 Code of Federal Regulations (CFR) 257 Subpart D] and 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 WSP USA Inc.

I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management, and 40 CFR Part 258.50(g) and that this *2022 Semi-Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company - Plant McDonough-Atkinson Ash Pond 2 and 3/4* has been prepared to meet the requirements of 40 CFR § 257.90(e).

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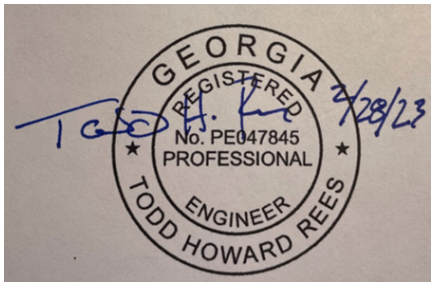

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Executive Summary

This summary of the *2022 Semi-Annual Groundwater Monitoring and Corrective Action Report* provides the status of the groundwater monitoring and corrective action program from July 2022 through December 2022 at Georgia Power Company's (Georgia Power) Plant McDonough-Atkinson Ash Pond 2 and Ash Pond 3/4 (AP-2 and 3/4). This summary was prepared by WSP USA, Inc. (WSP) (formerly Golder Associates USA Inc.) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6[1] of the United States Environmental Protection Agency (US EPA) coal combustion residual (CCR) rule [40 Code of Federal Regulations (CFR) 257 Subpart D]. As required in 40 CFR § 257.90(e), this semi-annual report describes the status of the groundwater monitoring program, summarizes key actions completed, and presents projected key activities for the upcoming year for AP-2 and 3/4. The other CCR unit (AP-1) at Plant McDonough-Atkinson (Plant McDonough) is reported separately.

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

Plant McDonough

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

Based on groundwater quality, an assessment monitoring program and assessment of corrective measures were established on November 13, 2019, and June 9, 2020, respectively. During the 2022 second semi-annual reporting period, the Site remained in assessment monitoring as corrective measures are evaluated.

Groundwater elevation measurements were recorded from the Site monitoring wells prior to each sampling event to confirm the groundwater flow direction, and to confirm that the groundwater monitoring well network for the CCR units remains sufficient to monitor groundwater downgradient of the units.

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

2022 Semi-Annual Groundwater Monitoring Activities

There were no changes to the AP-2 and 3/4 certified detection monitoring network during this reporting period. The second 2022 semi-annual groundwater monitoring event for AP-2 and 3/4 was conducted in September 2022. Groundwater samples were collected and analyzed for Appendix III[2] and Appendix IV[3] required monitoring parameters.

Analytical data from the September 2022 monitoring event has been statistically analyzed in accordance with the Site's certified statistical analysis method. For the September 2022 semi-annual monitoring event, statistical analyses indicate statistically significant increases (SSIs) for Appendix III constituents above the statistical limits and statistically significant levels (SSLs) of Appendix IV constituents above the groundwater protection standards (GWPS) as summarized below.

The statistical analysis of the September 2022 semi-annual monitoring data indicates statistically significant increases (SSIs) for Appendix III constituents and statistically significant levels (SSLs) of Appendix IV constituents above the GWPS as summarized below.

Appendix III Constituent	**September 2022 SSIs[1]**
Boron	DGWC-2, DGWC-4, DGWC-5, DGWC-8, DGWC-9, DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-47, DGWC-48
Calcium	DGWC-4, DGWC-5, DGWC-9, DGWC-10, DGWC-11, DGWC-12, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-48
Chloride	DGWC-4, DGWC-5, DGWC-8, DGWC-9, DGWC-11, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-48
Fluoride	DGWC-9, DGWC-10, DGWC-20, DGWC-47, DGWC-48
pH	DGWC-5, DGWC-9, DGWC-10, DGWC-17, DGWC-19, DGWC-20, DGWC-42, DGWC-47, DGWC-48
Sulfate	DGWC-2, DGWC-4, DGWC-5, DGWC-8, DGWC-9, DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-47, DGWC-48
TDS	DGWC-4, DGWC-5, DGWC-9, DGWC-11, DGWC-12, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-48
Appendix IV Constituent	**September 2022 SSLs[2]**
Arsenic	DGWC-9
Beryllium	DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48, B-92, B-93, B-115D
Cobalt	DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, B-93, B-104D, B-109D, B-115D
Lithium	DGWC-47, DGWC-48, B-115D, B-120D
Radium 226 + 228	B-104D, B-109D

Notes:
[1] An SSI is determined by an exceedance of the calculated prediction limit.
[2] An SSL is determined by comparing the confidence interval to the GWPS. Until February 22, 2022, GA EPD defined the GWPS as: (i) the MCL, (ii) where the MCL is not established, the background concentration, or (iii) background levels for constituents where the background level is higher than the MCL. Under current EPD rules, the GWPS is: (i) the MCL or RSL, or (ii) background levels for constituents where the background level is higher than the MCL or RSL.

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

The Appendix IV SSLs for arsenic, beryllium, and lithium are horizontally delineated in Site assessment wells to below the GWPS. Cobalt is horizontally delineated by on-site monitoring wells and downgradient surface water sampling. Surface water samples collected in September 2022 were non-detects for cobalt, consistent with previous observations. AP-2 and 3/4 SSLs have been vertically delineated except for cobalt and recently identified lithium. Vertical delineation efforts are ongoing for these two SSLs.

Radium concentrations at B-104D and B-109D are recent SSLs and are being reviewed by Georgia Power as per the guidance and timelines specified in § 257.95(g). An Alternate Source Demonstration (ASD) for radium was submitted to GA EPD on April 29, 2022 and is currently under review. Based on review of the Appendix III and Appendix IV results noted above, the Site will remain in Assessment Monitoring. Georgia Power will continue routine groundwater monitoring and evaluation of corrective action alternatives at the Site. Reports will be posted to the website and provided to the GA EPD semi-annually.

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1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (US EPA) coal combustion residual (CCR) rule [40 Code of Federal Regulations (CFR) 257 Subpart D] and the Georgia (GA) Environmental Protection Division (EPD) Rules for Solid Waste Management 391-3-4-.10, this *2022 Semi-Annual Groundwater Monitoring and Corrective Action Report* was prepared to document groundwater monitoring activities conducted at Georgia Power Company (Georgia Power)'s Plant McDonough-Atkinson Ash Pond 2 (AP-2), Ash Pond 3 (AP-3), and Ash Pond 4 (AP-4) (aka AP-2 and 3/4) and satisfies the requirements of § 257.90(e). To specify groundwater monitoring requirements, GA EPD rule 391-3-4-.10(6)(a) incorporates by reference the US EPA CCR rule (40 CFR 257 Subpart D). For ease of reference, the US EPA CCR rules are cited within this report.

This semi-annual report documents the second 2022 semi-annual groundwater monitoring event conducted in September 2022 at AP-2 and 3/4. Activities completed at Plant McDonough's Ash Pond 1 (AP-1) are reported under separate cover.

1.1 Site Description and Background

Plant McDonough-Atkinson (Plant McDonough, Site), formerly a coal-fired power generating facility, was converted to a natural gas combined-cycle power generating facility in 2011. Located approximately 7 miles northwest of Atlanta in southeast Cobb County (5551 South Cobb Dr SE, Atlanta, GA 30339), the property occupies approximately 390 acres and is bounded on the southeast by the Chattahoochee River. A site location map is included as Figure 1.

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

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

1.2 Regional Geology and Hydrogeologic Setting

The following section and subsections include a general description of regional geologic and hydrogeologic characteristics of formations that occur beneath the Site as presented in the *Hydrogeologic Assessment Report* (Golder, 2022a).

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

Residual soils, primarily clayey/sandy silt, sandy silt with clay, and silty sand, occur as a variably thick blanket overlying bedrock across most of the Site. These residual saprolitic soils along with saprolitic transitionally or partially weathered rock, collectively referred to as the overburden, range between approximately 9 to 61 feet in thickness across the Site, with an average thickness of approximately 38 feet. Saprolitic rock is considered to be transitionally weathered rock (TWR) or partially weathered rock (PWR). Where TWR is a qualitative description based on visual observations, PWR is defined by Standard Penetration Test (SPT) blow counts that exceed 50 blows/six inches.

A regional, unconfined surficial aquifer system is present at the Site, existing within the overburden and weathered and fractured upper bedrock (e.g., approximately the first 30 feet), depending on topographic location. Recharge primarily occurs through precipitation and subsequent infiltration. Generally, groundwater flow occurs through intergranular pore spaces in the overburden and is controlled by topography and top of rock variations. However, a relatively higher transmissive zone is interpreted to occur at the base of the overburden, at the interface of weathered bedrock and competent bedrock and is believed to be the primary groundwater flow path. Groundwater in the overburden has an average horizontal hydraulic conductivity of 10^{-4} centimeters per second (cm/s) and is interpreted to flow south-southeast.

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

1.3 Groundwater Monitoring Network

Pursuant to § 257.91, a groundwater monitoring system was installed within the uppermost aquifer at AP-2 and 3/4 to monitor groundwater passing the waste boundary. Wells were located to monitor upgradient and downgradient groundwater conditions based on groundwater flow direction. The monitoring well network was certified by a Georgia-licensed Professional Engineer licensed on April 17, 2019, and the certification is maintained in the Operating Record pursuant to § 257.90(f). AP-2 and 3/4 monitoring well and piezometer locations are shown on Figures 3A and 3B.

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

2.0 GROUNDWATER MONITORING ACTIVITIES

The following section describes monitoring-related activities for sampling performed at the Site from July 2022 through December 2022. Routine groundwater sampling was performed in September 2022 in accordance with 40 CFR § 257.93. Groundwater monitoring field forms from these monitoring events are provided in Appendix A and the analytical data reports are presented in Appendix B.

2.1 Monitoring Well Installation and Maintenance

There were no changes to the detection groundwater monitoring system during this reporting period. September 2022 field activities included visual inspection of well conditions prior to sampling, recording conditions around each well, and performing exterior maintenance to provide safe access for sampling. The well condition inspection forms are included in Appendix C.

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

2.2 Assessment Monitoring

Pursuant to § 257.94(e), an assessment monitoring program has been established for AP-2 and 3/4 at Plant McDonough based on the SSIs documented in the *2019 Annual Groundwater Monitoring and Corrective Action* Report, (Golder, 2019). A notice of assessment monitoring was placed in the operation record on November 13, 2019.

Groundwater sampling was conducted for AP-2 and 3/4 in September 2022 in accordance with § 257.93 and GA EPD rule 391-3-4-.10(6)(a). Samples were collected from each well in the certified monitoring network and the established assessment monitoring network for AP-2 and 3/4 (Table 1). The location of each of these monitoring wells is shown on Figures 3A and 3B. Table 2 presents a summary of groundwater sampling events completed for AP-2 and 3/4 and the status of the monitoring network.

During the September 2022 semi-annual sampling event, groundwater samples were collected for Appendix III and Appendix IV constituents. Results of the sampling activities conducted in September 2022 are discussed in Section 5.0, and the data are presented in Appendix B.

2.3 Additional Sampling

Additional non-routine sampling was conducted during the reporting period in support of the assessment of corrective measures and in continuing to define the nature and extent of impacts resulting from AP-2 and 3/4. Additional sampling was conducted at upgradient monitoring wells B-116D, B-117D, B-118 and B-119D to characterize background conditions at the Site are being evaluated to update the statistical background evaluation. Additional analyses were also performed on the detection and assessment monitoring well samples to characterize the groundwater chemistry as part on ongoing remedy selection activities.

Installation of additional wells to horizontally characterize groundwater downgradient of AP-2 and 3/4 wells with SSLs of cobalt is infeasible due to the proximity of the Chattahoochee River. Georgia Power therefore collected surface water samples from the Chattahoochee River on October 27, 2022. The surface water samples collected in October 2022 were analyzed for Appendix III parameters, select Appendix IV parameters (arsenic, cobalt, lithium, and molybdenum) and major ions (magnesium, potassium, sodium, total and bicarbonate alkalinity). Two of the locations within the Chattahoochee River are used for delineation of cobalt (DW_US and CR-0.1). Surface water sampling locations are shown on Figure 3A. Surface water samples are collected in accordance with *Region 4 U.S. Environmental Protection Agency Science and Ecosystem Support Division Operating Procedures*

for Surface Water Sampling SESDPROC-201-R4 (US EPA, 2016). The results of surface water sampling are discussed in Section 5.0 and the laboratory reports are provided in Appendix B. Georgia Power will continue collecting the surface water samples semi-annually.

As part of ongoing delineation efforts under the assessment monitoring program, samples from newly installed piezometers B-122D and B-123D were collected in September 2022. Results of these analyses is provided in Appendix B.

3.0 SAMPLE METHODOLOGY AND ANALYSIS

The following sections describe methods used to conduct the September 2022 semi-annual AP-2 and 3/4 groundwater monitoring event. Groundwater analytical data and chain of custody records are presented in Appendix B.

3.1 Groundwater Elevation Measurement

Groundwater elevations were measured during the September 2022 monitoring event. Groundwater elevation data from September 6, 2022 are summarized in Table 3. Calculated water elevations from September 6, 2022 were used to develop Figures 4A, and 4B. Site potentiometric maps indicate that groundwater generally flows southeast across the Site from the topographic high northwest of AP-3/4 towards AP-2 and the Chattahoochee River, which is consistent with historical observations. Localized flow direction fluctuations due to ongoing dewatering efforts at AP-4 are shown on Figure 4B, which is an inset of the northeast portion of AP-3/4. Groundwater flow in this area is towards the center of AP-3/4.

Localized groundwater flow directions in the Site aquifer are influenced by topographic and top of rock variations as well as recent closure activities, including localized dewatering. AP-3/4 is on a topographic high, initially creating radial flow around the ponds, with the exception of the one upland high upgradient (northwest) of AP-3/4. Dewatering at AP-4 is creating an inward gradient, restoring the pre-impoundment southward groundwater flow pattern in the northeast portion AP-3/4 that is expected to continue in the future, corresponding to the higher topographic elevations in that area following closure. AP-2 was over-excavated into subgrade soils and filled with on-site backfill from the AP-4 dike, creating a topographic low. Construction in the AP-3/4 area is substantially complete pending construction certification.

3.2 Groundwater Gradient and Flow Velocity

Hydraulic gradient is calculated as the difference in groundwater elevation (in feet) divided by the distance between two piezometers or wells (in feet). Groundwater elevation data recorded in September 2022 from two piezometer and/or well pairings; DGWA-53/DGWC-13, and B-26/DGWC-48, located along the inferred groundwater flow paths (i.e., perpendicular to the potentiometric contours) were used to calculate hydraulic gradients for AP-2 and 3/4.

Average groundwater flow velocities at the Site were calculated using hydraulic gradient data, hydraulic conductivity data generated from slug testing results, and an estimated effective porosity of the screened portion of the uppermost aquifer. Based on slug test data, the average hydraulic conductivity for the overburden is 7.70 x 10^{-4} centimeters/second (cm/s), (Golder, 2022a). An effective porosity of 0.20 (20%) was used based on the default values for effective porosity recommended by US EPA for a silty sand-type soil (US EPA, 1996).

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

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

Where:

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

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

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

n_e = Effective porosity

Using this equation, groundwater horizontal flow velocities were calculated for AP-2 and 3/4 using September 2022 groundwater elevation data as shown on Table 4.

Calculated (horizontal) flow velocities range from approximately 102 feet per year (ft/yr) to 110 ft/yr during the September 2022 event (Table 4). These estimated flow velocities are consistent with past results and are also generally consistent with other published velocities for regolith-upper bedrock aquifers of the Piedmont (Heath, R.C., 1982). Small, localized flow changes and temporary flow rate increases are observed in the vicinity of each of the dewatering wells as a result of pumping.

3.3 Groundwater Sampling

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

- pH within ±0.1 standard units (S.U.)
- specific conductance within ±5%
- DO within ±10% or ±0.2 milligrams per liter (mg/L) (whichever is greater) for DO where DO>0.5 mg/L; if DO<0.5 mg/L, no stabilization criteria apply
- turbidity less than 5 nephelometric turbidity units (NTU)

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

Field data and sampling notes for each monitoring well are recorded on the field information forms generated by the SmarTroll®/Aqua TROLL® 400. These forms include a description of the sampling equipment, sampling method, test notes, field observations, and purge logs (purge rate, stabilization parameters, and depth to water

measurements) at each monitoring location. Deviations from the sample plan and stabilization criteria are noted on the field information forms. Field data sheets and daily field instrument calibration forms are included in Appendix A.

3.4 Laboratory Analysis

Semi-annual 2022 groundwater samples from wells in the detection monitoring network were analyzed for Appendix III and Appendix IV monitoring parameters per 40 CFR § 257.93 and § 257.95(d)(2). Tables 5A and 5B present a tabulated summary of the September 2022 detection, assessment, and supplemental sample results. Results for the surface water samples collected in October 2022 are presented in Table 6. Analytical methods used for monitoring parameters are listed in the analytical data reports in Appendix B.

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

3.5 Quality Assurance and Quality Control

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

Groundwater quality data in this report were independently validated in accordance with US EPA *Region 4 Data Validation Standard Operating Procedures* (US EPA, 2011), *National Functional Guidelines for Inorganic Superfund Methods Data Review* (US EPA, 2020b) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries, relative percent differences (RPDs), laboratory and field duplicate RPDs, field and equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags are applied to the data per US EPA procedures and guidance. Data validation summaries are provided in Appendix B. The September and October 2022 data are considered usable for meeting project objectives and the results are considered valid.

A value followed by a "J" flag in tables and laboratory reports indicate that the value is an estimated analyte concentration detected between the method detection limit (MDL) and the laboratory reporting limit (RL). The estimated value is positively identified but is below the lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions. Total radium concentration (Radium 226+228) is a combination of isotopes 226 and 228. When radium data are reported below the Minimum Detectable Concentration (MDC), the values are followed by a "U" flag in the tables.

4.0 STATISTICAL ANALYSIS

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

4.1 Statistical Method

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

4.1.1 Appendix III Detection Monitoring Statistical Methods

Appendix III groundwater monitoring data were statistically evaluated through the use of interwell prediction limits. The Sen's Slope/Mann Kendall trend test was also performed to evaluate concentrations over time and determine whether concentrations are statistically increasing, decreasing, or stabilizing.

4.1.2 Appendix IV Assessment Monitoring Statistical Methods

Statistical analyses while in assessment monitoring are performed through the use of confidence intervals compared to the groundwater protection standards (GWPS). Parametric tolerance limits were used to calculate Site specific background limits from pooled upgradient well data for Appendix IV parameters with a target of 95% confidence and 95% coverage. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. The background limits were then used when determining the GWPS under 40 CFR § 257.95(h) and GA EPD Rule 391-3-4-.10(6)(a). As described in 40 CFR § 257.95(h)(1-3), 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, Regional Screening Levels (RSLs) have been specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), or molybdenum (0.100 mg/L).
- The respective background level for a constituent when the background level is higher than the MCL or rule identified GWPS.

Following the above stated rule requirements, GWPS were established for statistical comparison of Appendix IV constituents. Table 7 summarizes the background limit established at each monitoring well and the GWPS.

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

A summary table of the statistical results accompanies the prediction limits for Appendix III and confidence intervals for Appendix IV in Appendix D. The background period for statistical analyses included data through the current event. Tolerance limits for confidence interval calculations are updated to include current data. Due to varying reporting limits in background, the most recent reporting limit is used when data is not reported above detection limits. This results in a more appropriate statistical test.

4.2 Statistical Analysis Results

Analytical data from September 2022 at AP-2 and 3/4 have been statistically analyzed in accordance with the Site's certified *Statistical Analysis Plan* (Groundwater Stats Consulting, 2019). Verification resampling to confirm initial statistically significant increases (SSIs) was not performed; therefore, initial SSIs are considered verified. The statistical results are included in Appendix D.

4.2.1 September 2022 Appendix III Statistical Results

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

4.2.2 September 2022 Appendix IV Statistical Results

Analytical data from the September 2022 monitoring event at AP-2 and 3/4 have been statistically analyzed in accordance with the Site's certified statistical analysis method. Review of the Sanitas results indicates that using the GWPS established according to both 40 CFR § 257.95(h) and 391-3-4-.10(6)(a), the following SSLs were identified:

AP-2 and 3/4 Statistically Significant Level Exceedances	
Appendix IV Parameter	**AP-2 and 3/4 Monitoring Well**
Arsenic	DGWC-9
Beryllium	DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48, B-92, B-93, B-115D
Cobalt	DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, B-93, B-104D, B-115D
Lithium	DGWC-47, DGWC-48, B-115D, B-120D
Combined Radium	B-104D, B-109D

5.0 ASSESSMENT MONITORING AND DELINEATION STATUS

CCR compliance groundwater monitoring-related activities have been performed for AP-2 and 3/4 since September 2016 pursuant to the CCR rule. Georgia Power initiated an assessment monitoring program in November 2019 after identifying SSIs of Appendix III parameters in groundwater. Pursuant to § 257.95, samples were collected from the compliance monitoring wells and analyzed for Appendix IV constituents.

Limited groundwater analytical data are available for some assessment monitoring wells. In accordance with Section 21.1.1 of the Unified Guidance (US EPA, 2009), four independent data are the minimum population size recommended to construct confidence intervals required to assess SSLs for Appendix IV constituents. At the time of this report, the data set for some of the assessment wells is limited to fewer than four independent datums and therefore not appropriate for statistical analyses. For wells where the minimum of four data points are available, statistical analyses are discussed in Section 4.0, above, and are included in Appendix D.

To characterize the nature and extent of arsenic, beryllium, cobalt, lithium, radium, and historical selenium SSLs, multiple wells have been installed and sampled at the Site (Golder, 2020a); refer to the table below for constituent delineation status. In addition, surface water has been sampled at multiple locations to demonstrate horizontal

delineation in surface water bodies where proximity to surface water prevented installation of additional wells. Specific details regarding the delineation status at AP-2 and 3/4, including isoconcentration contours for each of the constituents with an exceedance of the GWPS, is discussed in the *Semi-Annual Remedy Selection and Design Progress Report* (Golder, 2023, Appendix E).

Detection/Assessment Monitoring Well with SSL	Constituent of Concern	Vertical Delineation Well	Horizontal Delineation Well / Surface Water Monitoring Location
DGWC-5	Beryllium	B-111D	B-98, Flow is toward AP-4[2]
DGWC-8	Cobalt	B-106D	B-88, Flow is toward AP-4[2]
DGWC-9	Arsenic	B-101D	DGWC-10, Flow is toward AP-4[2]
	Beryllium	B-101D	DGWC-11, Flow is toward AP-4[2]
	Cobalt	B-101D	DGWC-11, Flow is toward AP-4[2]
	Selenium[3]	B-101D	DGWC-10, Flow is toward AP-4[2]
DGWC-10	Beryllium	B-102D	DGWC-11, Flow is toward AP-4[2]
	Cobalt	B-102D	DGWC-11, Flow is toward AP-4[2]
DGWC-19	Cobalt	B-107D	B-77
DGWC-20	Cobalt	B-108D	B-83
DGWC-47	Beryllium	B-123D[1]	B-77
	Cobalt	B-122D[1]	B-77
	Lithium	B-123D[1]	B-77
DGWC-48	Beryllium	B-104D / B-122D[1]	B-83
	Cobalt	B-122D[1]	B-83
	Lithium	B-104D / B-122D[1]	B-83
B-56	Cobalt	B-101D	B-66, Flow is toward AP-4[2]
B-63	Cobalt	B-122D[1]	DW_US
B-92	Beryllium	B-111D	B-97, Flow is toward AP-4[2]
B-93	Beryllium	B-111D	B-98, Flow is toward AP-4[2]
	Cobalt	B-111D	B-98, Flow is toward AP-4[2]
B-104D	Cobalt	B-122D[1]	B-122D[1]
	Combined Radium[4]	NA[4]	NA[4]
B-109D	Combined Radium[4]	NA[4]	NA[4]
B-115D	Beryllium	B-123D[1]	B-122D[1]
	Cobalt	B-123D[1]	B-122D[1]
	Lithium	B-123D[1]	B-122D[1]
B-120D	Lithium	Pending, B-111D	DGWC-4

Notes:
[1] Delineation status is pending additional data collection at location B-122D, B-123D. A minimum of four data points is needed to perform the required statistical analyses.
[2] Where groundwater flow is inward, toward AP-4, we have indicated delineation is complete.
[3] Selenium is no longer an SSL and has not been for the previous 2 events. Current sample results are below the GWPS. GPC will continue to evaluate the occurrence of selenium at DGWC-9 until the upper confidence interval is below the GWPS.
[4] An Alternate Source Demonstration (ASD) for Combined Radium has been submitted for Plant McDonough (Golder, 2022c). Georgia Power will continue to monitor the occurrence of combined radium until such time that GA EPD approves the ASD.

Based on data collected to date, there are no impacts to surface water by constituents with SSLs at AP-2 and 3/4. The horizontal delineation of target SSL constituents is complete. Evaluation of vertical delineation for SSLs at AP-2 and 3/4 is complete with the exception of B-115D (cobalt), B-123D (cobalt) and recently identified SSL of lithium at B-120D. Vertical delineation at these locations is ongoing and described further below. Horizontal and vertical delineation based on review of analytical results, statistical analyses and the isoconcentration contours is presented in more detail in Appendix E.

Cobalt at B-115D and B-123D: Monitoring wells B-115D, B-123D and B-122D were installed to evaluate vertical delineation at monitoring wells DGWC-47 and DGWC-48. Vertical delineation along the transects extending from DGWC-47 to B-63 is vertically delineated by B-122D, pending additional data collection. Current results for two samples are below the GWPS at B-122D. However, concentrations of cobalt at monitoring wells B-115D and B-123D continue to exceed the GWPS. Based on our review of site data, groundwater flow is upward and toward B-122D. Vertical delineation is ongoing for cobalt in this area. Additional details are presented in Appendix E.

Lithium at B-120D. Monitoring well B-120D was installed as a vertical delineation well at location B-3. Horizontal delineation is complete with well DGWC-4. Vertical delineation is pending additional investigation for this new SSL at this location. We also note that groundwater flow is inward, toward AP-4.

Radium at B-104D and B-109D: Horizontal and vertical delineation of radium at B-104D and B-109D not applicable at this time. Natural sources of radium have been identified and an ASD was submitted to GA EPD (Golder, 2022c) for these concentrations above the GWPS on July 27, 2022 and is pending approval by EPD.

6.0 ASSESSMENT OF CORRECTIVE MEASURES

Following the requirements of 40 CFR § 257.96, Plant McDonough has initiated an Assessment of Corrective Measures (ACM) for arsenic, beryllium, cobalt, and lithium. Notification of this action was placed in the CCR operating record on July 9, 2020. Since the submission of the ACM report in December 2020, selenium was identified as an SSL at well DGWC-9 (Golder, 2020b) and this SSL was incorporated into the ACM evaluation. Since initiation of the ACM, radium was also identified as an SSL. In response, an ASD has been submitted to GA EPD to address the presence of radium in Site groundwater.

In accordance with 40 CFR § 257.97(a), a remedy selection report will be prepared and submitted concurrent with semi-annual groundwater monitoring report to document results associated with additional data collection, and present progress toward selection and design of a groundwater remedy. The *Semi-Annual Remedy Selection and Design Progress Report* that is included as Appendix E includes the following information:

i) A summary of the closure status for AP-2 and 3/4 as it relates to source control.

ii) Summary of work completed to date to achieve delineation of constituents exceeding GWPS and a summary of data collected to date towards remedy selection.

iii) A summary of remedial alternatives and progress towards remedy selection.

7.0 MONITORING PROGRAM STATUS

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

8.0 CONCLUSIONS AND FUTURE ACTIONS

This *2022 Semi-Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company Plant McDonough-Atkinson – Ash Pond 2 and 3/4* was prepared to fulfill the requirements of US EPA CCR rule 40 CFR 257 Subpart D and Georgia EPD rule 391-3-4-.10.

The groundwater flow direction and rates interpreted during the September 2022 water level gauging events is consistent with the post closure model predictions. Groundwater flow is south toward the Chattahoochee River, consistent with pre-site development conditions. Although groundwater flow is toward the south, monitoring wells previously established for delineation will remain in the network during assessment monitoring until the ACM is complete and a long-term corrective action groundwater monitoring is established. The monitoring well network continues to effectively monitor the uppermost aquifer beneath AP-2 and 3/4.

Review of analytical results and statistical analyses developed for the Site indicates confirmed SSIs of Appendix III above background and SSLs of Appendix IV above the established GWPS. In accordance with 40 CFR § 257.96, Georgia Power has initiated an assessment of corrective measures study for the identified SSLs. Based on data collected to date, there are no impacts to surface water at Plant McDonough and the horizontal delineation of constituents exhibiting SSLs is complete. Evaluation of vertical delineation for SSLs at AP-2 and 3/4 is ongoing in select wells.

Based on the findings presented herein, Plant McDonough will continue with assessment groundwater monitoring and reporting. The next sampling event is tentatively scheduled for January-February 2023.

9.0 REFERENCES

Golder, 2019, *2019 Annual Groundwater Monitoring and Corrective Action Report,* Georgia Power Company – Plant McDonough-Atkinson Ash Pond 2 and 3/4, August 1, 2019.

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Golder 2022b, *Semi-Annual Remedy Selection and Design Progress Report,* Plant McDonough-Atkinson Ash Pond 2 and 3/4, July 29, 2022.

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Tables

TABLE 1
SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION DATA
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
ASH POND 1 (AP-1) DETECTION MONITORING WELL NETWORK											
DGWA-53	Upgradient	Upper Bedrock	1393472.8	2201668.8	844.26	841.3	28.9	823.7	813.7	10	9/24/2016
DGWA-70A	Upgradient	Overburden	1390481.4	2200591.6	808.52	805.8	59.3	756.9	746.9	10	5/10/2017
DGWA-71	Upgradient	Overburden	1393963.3	2201714.8	863.84	861.2	43.8	827.8	817.8	10	2/28/2017
DGWC-37	Downgradient	Overburden	1390482.2	2200919.8	766.21	763.7	39.7	734.4	724.4	10	11/28/2012
DGWC-38	Downgradient	Overburden	1390362.7	2201148.6	757.43	754.7	25.0	740.0	730.0	10	11/29/2012
DGWC-39	Downgradient	Overburden	1390303.6	2201540.1	759.89	757.0	21.2	746.2	736.2	10	11/6/2012
DGWC-40	Downgradient	Overburden	1390625.7	2201825.9	779.06	776.2	34.9	751.7	741.7	10	11/5/2012
DGWC-67	Downgradient	Overburden	1390953.8	2200830.7	766.70	767.0	56.3	720.7	710.7	10	3/14/2017
DGWC-68A	Downgradient	Overburden	1391301.2	2200734.9	765.33	765.4	29.8	746.0	736.0	10	4/20/2017
DGWC-69	Downgradient	Overburden	1391585.0	2200657.1	763.75	764.0	24.3	749.7	739.7	10	3/16/2017
DGWC-121	Downgradient	Overburden	1390739.7	2200849.4	764.16	764.5	50.0	724.8	714.8	10	3/22/2022
ASH POND 1 (AP-1) ASSESSMENT MONITORING WELL NETWORK											
B-62	Downgradient	Upper Bedrock	1389828.1	2201811.2	760.08	760.4	39.9	730.7	720.7	10	10/4/2016
B-100	Downgradient	Overburden	1390254.8	2202242.1	777.95	775.3	44.8	740.5	730.5	10	7/8/2020
B-105D	Downgradient	Upper Bedrock	1390634.5	2201831.9	779.01	776.0	70.0	716.0	706.0	10	10/19/2020
B-112D	Downgradient	Upper Bedrock	1391564.2	2200664.1	765.58	766.1	55.0	721.4	711.4	10	3/22/2021
B-113D	Downgradient	Upper Bedrock	1391264.6	2200719.2	758.22	758.8	85.0	684.4	674.4	10	3/30/2021

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ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) DETECTION MONITORING WELL NETWORK											
DGWA-53	Upgradient	Upper Bedrock	1393472.8	2201668.8	844.26	841.3	28.9	823.7	813.7	10	9/24/2016
DGWA-70A	Upgradient	Overburden	1390481.4	2200591.6	808.52	805.8	59.3	756.9	746.9	10	5/10/2017
DGWA-71	Upgradient	Overburden	1393963.3	2201714.8	863.84	861.2	43.8	827.8	817.8	10	2/28/2017
DGWC-2	Downgradient	Overburden/Upper Bedrock	1393958.0	2202119.5	850.88	848.3	49.0	809.6	799.6	10	10/2/2012
DGWC-4	Downgradient	Overburden	1394171.5	2202662.4	814.85	812.1	45.0	777.4	767.4	10	10/3/2012
DGWC-5	Downgradient	Overburden/Upper Bedrock	1394306.3	2202965.1	791.75	788.7	30.0	769.0	759.0	10	10/4/2012
DGWC-8	Downgradient	Overburden	1394322.2	2203882.1	826.38	824.1	49.1	785.4	775.4	10	10/10/2012
DGWC-9	Downgradient	Overburden	1394055.9	2204170.0	824.35	821.8	30.0	802.2	792.2	10	10/10/2012
DGWC-10	Downgradient	Overburden	1393818.3	2204201.1	823.55	820.9	45.4	785.9	775.9	10	10/11/2012
DGWC-11	Downgradient	Overburden	1393547.1	2204166.2	800.57	798.1	49.1	759.3	749.3	10	10/15/2012
DGWC-12	Downgradient	Overburden	1393149.4	2204128.3	773.86	771.2	25.1	756.5	746.5	10	10/15/2012
DGWC-13	Downgradient	Overburden	1392881.1	2204084.6	794.10	791.3	43.8	757.9	747.9	10	11/29/2012
DGWC-14	Downgradient	Overburden/Upper Bedrock	1392574.2	2204013.3	792.40	789.8	34.3	765.9	755.9	10	12/18/2012
DGWC-15	Downgradient	Overburden	1392544.1	2203679.0	824.50	821.5	67.1	764.8	754.8	10	11/29/2012
DGWC-17	Downgradient	Overburden	1392645.6	2203051.0	837.05	834.2	44.5	800.0	790.0	10	1/9/2013
DGWC-19	Downgradient	Overburden	1392342.6	2202601.0	825.46	822.9	39.8	793.5	783.5	10	3/12/2013
DGWC-20	Downgradient	Overburden	1392164.5	2202315.6	822.14	819.8	39.7	790.7	780.7	10	3/5/2013
DGWC-21	Downgradient	Overburden/Upper Bedrock	1392067.5	2202063.5	816.28	813.5	69.0	754.9	744.9	10	10/31/2012
DGWC-22	Downgradient	Upper Bedrock	1392126.3	2201791.9	816.59	813.7	60.0	764.0	754.0	10	10/25/2012
DGWC-23	Downgradient	Upper Bedrock	1392239.7	2201582.0	818.37	815.7	60.1	765.9	755.9	10	10/25/2012
DGWC-42	Downgradient	Overburden	1391327.8	2201870.2	804.68	802.0	50.4	762.1	752.1	10	11/12/2012
DGWC-47	Downgradient	Overburden/Upper Bedrock	1391553.8	2202610.5	797.45	794.3	28.8	775.9	765.9	10	6/23/2016
DGWC-48	Downgradient	Overburden/Upper Bedrock	1391314.6	2202290.2	788.33	785.2	30.0	765.6	755.6	10	6/22/2016

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ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) ASSESSMENT MONITORING WELL NETWORK											
B-56	Downgradient	Overburden	1393957.9	2204187.8	823.59	821.0	45.0	786.4	776.4	10	10/3/2016
B-62	Downgradient	Upper Bedrock	1389828.1	2201811.2	760.08	760.4	39.9	730.7	720.7	10	10/4/2016
B-63	Downgradient	Overburden	1390999.1	2202978.1	777.10	777.3	46.0	741.8	731.8	10	10/6/2016
B-66	Downgradient	Overburden	1393858.2	2204277.5	815.90	813.3	55.3	768.3	758.3	10	11/16/2016
B-77	Downgradient	Overburden	1390948.7	2202942.0	776.86	777.1	42.0	745.1	735.1	10	9/17/2019
B-82	Downgradient	Overburden	1393750.0	2204258.1	810.07	807.5	45.0	773.0	763.0	10	9/21/2019
B-83	Downgradient	Overburden	1390735.5	2202695.6	776.98	777.1	48.6	738.5	728.5	10	9/30/2019
B-88	Downgradient	Overburden	1394401.1	2203738.3	820.07	817.0	72.0	755.0	745.0	10	11/15/2019
B-92	Downgradient	Overburden	1394392.7	2203026.7	785.08	785.3	24.6	770.7	760.7	10	12/11/2019
B-93	Downgradient	Overburden	1394348.7	2202946.7	789.07	789.2	28.9	770.3	760.3	10	12/12/2019
B-97	Downgradient	Overburden/Upper Bedrock	1394430.0	2203008.3	786.29	786.6	31.0	765.3	755.3	10	2/11/2020
B-98	Downgradient	Overburden	1394392.5	2202934.0	789.67	789.8	19.4	780.8	770.8	10	2/10/2020
B-100	Downgradient	Overburden	1390254.8	2202242.1	777.95	775.3	44.8	740.5	730.5	10	7/8/2020
B-101D	Downgradient	Overburden/Upper Bedrock	1394063.6	2204168.2	824.29	821.2	75.0	756.3	746.3	10	11/12/2020
B-102D	Downgradient	Upper Bedrock	1393828.4	2204200.4	823.42	820.6	85.0	746.2	736.2	10	11/10/2020
B-104D	Downgradient	Upper Bedrock	1391318.3	2202298.5	787.90	785.3	60.0	735.3	725.3	10	10/20/2020
B-106D	Downgradient	Upper Bedrock	1394327.1	2203869.2	826.21	823.5	80.0	754.1	744.1	10	11/13/2020
B-107D	Downgradient	Upper Bedrock	1392334.5	2202596.4	823.38	820.6	85.8	745.5	735.5	10	10/28/2020
B-108D	Downgradient	Upper Bedrock	1392156.1	2202312.5	821.13	818.4	80.0	749.4	739.4	10	10/27/2020
B-109D	Downgradient	Upper Bedrock	1393957.5	2202127.0	850.73	847.8	100.0	758.4	748.4	10	10/31/2020
B-111D	Downgradient	Upper Bedrock	1394303.4	2202956.4	791.87	789.1	85.0	714.9	704.9	10	11/3/2020
B-115D	Downgradient	Upper Bedrock	1391265.3	2202580.7	789.17	786.4	80.0	717.2	707.2	10	3/20/2021
B-120D	Downgradient	Upper Bedrock	1394047.2	2202436.4	836.42	834.0	70.0	775.0	765.0	10	3/6/2021
B-122D	Downgradient	Bedrock	1390992.8	2202975.4	777.03	777.3	85.0	707.5	697.5	10	3/24/2022

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PIEZOMETERS											
B-3	Downgradient	Overburden/Upper Bedrock	1394045.1	2202411.5	837.78	835.0	37.0	808.3	798.3	10	10/3/2012
B-6	Downgradient	Overburden	1394419.5	2203266.5	789.47	786.5	35.4	761.5	751.5	10	10/9/2012
B-7	Downgradient	Overburden	1394374.6	2203596.1	809.16	806.1	25.2	791.3	781.3	10	10/9/2012
B-16	Downgradient	Overburden	1392595.1	2203315.4	826.47	823.6	43.7	790.2	780.2	10	12/19/2012
B-18	Downgradient	Overburden	1392521.0	2202875.5	826.56	823.9	32.6	801.5	791.5	10	1/10/2013
B-24	Downgradient	Upper Bedrock	1392479.9	2201450.0	822.11	819.3	79.1	751.0	741.0	10	10/24/2012
B-25	Downgradient	Upper Bedrock	1392813.3	2201502.7	836.54	833.5	54.8	789.1	779.1	10	10/24/2012
B-26	Downgradient	Upper Bedrock	1393105.6	2201550.4	853.60	850.6	49.3	811.7	801.7	10	10/23/2012
B-28	Downgradient	Overburden/Upper Bedrock	1391967.4	2201679.2	816.08	813.3	69.4	754.3	744.3	10	10/31/2012
B-29	Downgradient	Overburden	1391890.0	2201422.0	816.43	813.5	54.4	769.4	759.4	10	1/11/2013
B-31	Downgradient	Upper Bedrock	1392034.3	2200928.5	797.47	794.9	45.1	760.2	750.2	10	1/22/2013
B-41	Downgradient	Overburden	1390920.8	2201751.9	795.20	792.4	60.0	743.0	733.0	10	11/14/2012
B-50	Downgradient	Overburden	1391657.1	2201841.0	809.67	809.2	36.0	784.4	774.4	10	6/24/2016
B-51	Downgradient	Overburden	1390501.2	2200906.5	765.92	763.3	65.0	708.3	698.3	10	6/27/2016
B-52	Downgradient	Overburden	1392308.3	2201314.8	822.89	820.3	50.0	781.4	771.4	10	9/28/2016
B-54	Downgradient	Overburden/Upper Bedrock	1394423.5	2203140.7	785.46	782.6	34.2	758.8	748.8	10	9/26/2016
B-55	Downgradient	Overburden	1394142.6	2204147.9	825.12	822.9	52.0	781.9	771.9	10	9/22/2016
B-57	Downgradient	Upper Bedrock	1391396.3	2202736.9	789.04	786.0	50.5	746.0	736.0	10	9/24/2016
B-58	Downgradient	Overburden	1391125.7	2202426.5	788.17	785.2	45.0	750.7	740.7	10	9/23/2016
B-59	Downgradient	Overburden/Upper Bedrock	1394349.1	2203001.1	788.00	785.5	30.3	765.3	755.3	10	9/23/2016
B-60	Downgradient	Overburden	1391100.7	2202881.6	782.13	779.2	49.8	739.9	729.9	10	9/29/2016
B-61	Downgradient	Overburden	1390957.8	2202505.8	782.09	779.0	51.9	737.5	727.5	10	9/29/2016
B-64	Downgradient	Overburden	1394381.9	2203031.3	785.83	786.1	30.4	766.1	756.1	10	11/2/2016
B-65	Downgradient	Overburden/Upper Bedrock	1394381.2	2204050.8	821.95	822.3	45.4	787.9	777.9	10	11/15/2016

TABLE 1
SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION DATA
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
PIEZOMETERS											
B-68	Downgradient	Overburden	1391298.2	2200714.2	758.68	759.0	18.0	751.0	741.0	10	3/16/2017
B-72	Downgradient	Overburden	1391242.2	2200723.9	758.85	758.09	21.9	746.6	736.6	10	4/19/2017
B-73	Downgradient	Overburden	1391352.4	2200697.5	759.46	758.85	15.8	753.5	743.5	10	4/19/2017
B-74	Downgradient	Overburden	1391279.8	2200665.3	759.44	758.96	16.5	748.2	743.2	5	4/25/2017
B-76	Downgradient	Overburden	1390716.9	2202756.0	760.31	760.54	38.5	732.0	722.0	10	9/18/2019
B-78	Downgradient	Overburden/Upper Bedrock	1394328.2	2202958.2	790.75	788.0	30.0	768.0	758.5	10	9/22/2019
B-79	Downgradient	Overburden	1394458.6	2203223.0	788.66	785.9	34.9	761.0	751.5	10	9/21/2019
B-80	Downgradient	Overburden	1394372.6	2203533.9	804.47	801.8	30.0	782.0	772.5	10	9/20/2019
B-81	Downgradient	Overburden	1394364.9	2203741.1	820.56	817.7	50.0	778.5	768.5	10	9/22/2019
B-84	Downgradient	Overburden	1390411.9	2202241.9	776.24	776.3	49.1	737.5	727.5	10	10/1/2019
B-85	Downgradient	Overburden/Upper Bedrock	1394433.4	2203134.5	782.54	782.7	34.5	758.5	748.5	10	11/18/2019
B-86	Downgradient	Overburden/Upper Bedrock	1394480.0	2203206.6	784.29	784.6	34.1	760.5	750.5	10	11/18/2019
B-87	Downgradient	Overburden	1394401.9	2203531.3	803.37	800.4	42.0	768.7	758.7	10	11/17/2019
B-89	Downgradient	Upper Bedrock	1394398.4	2204049.4	822.36	822.6	49.5	783.1	773.1	10	11/19/2019
B-90	Downgradient	Overburden	1394501.0	2203212.6	784.00	784.2	33.4	760.8	750.8	10	12/10/2019
B-91	Downgradient	Overburden	1394447.1	2203123.9	782.98	783.1	34.6	758.5	748.5	10	12/11/2019
B-94	Downgradient	Overburden	1394402.0	2203513.7	801.74	799.2	45.2	764.6	754.6	10	1/23/2020
B-95	Downgradient	Overburden	1394518.6	2203167.7	784.00	784.3	33.3	761.3	751.3	10	2/11/2020
B-96	Downgradient	Overburden	1394478.7	2203099.3	784.92	785.3	33.1	762.2	752.2	10	2/10/2020
B-99	Downgradient	Overburden	1394524.2	2203084.5	782.39	782.6	12.3	775.3	770.3	5	7/7/2020

TABLE 1
SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION DATA
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
PIEZOMETERS											
B-103D	Downgradient	Upper Bedrock	1391543.5	2202614.4	795.96	793.8	70.0	733.8	723.8	10	10/15/2020
B-110D	Downgradient	Upper Bedrock	1391294.4	2200736.0	764.61	764.7	65.0	711.7	701.7	10	11/17/2020
B-116D	Upgradient	Upper Bedrock	1390483.7	2200611.0	807.82	805.3	90.0	726.1	716.1	10	3/8/2021
B-117D	Upgradient	Upper Bedrock	1393963.8	2201727.3	863.82	861.2	75.0	796.5	786.5	10	3/17/2021
B-118	Upgradient	Upper Bedrock	1391219.3	2200449.7	807.70	805.0	75.0	740.2	730.2	10	3/9/2021
B-119D	Upgradient	Upper Bedrock	1391236.4	2200446.6	807.15	804.5	105	709.8	699.8	10	3/16/2021
B-123D	Downgradient	Bedrock	1391234.4	2202608.4	781.80	778.9	160.0	668.9	618.9	50	4/4/2022

Notes:

1. Coordinate System: NAD 1983 State Plane Georgia West (U.S. feet)
2. bgs - Below Ground Surface; NAD - North American Datum; NAVD - North American Vertical Datum

TABLE 2
GROUNDWATER SAMPLING EVENT SUMMARY
Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4
Atlanta, Georgia

Well ID	Hydraulic Location	Summary of Sampling Event	Status of Monitoring Well
		September 2022	
Purpose of Sampling Event		Detection/ Assessment	
ASH POND 2 and ASH PONDS 3/4 (AP-2 & 3/4) MONITORING WELL NETWORK			
DGWA-53	Upgradient	X	Assessment
DGWA-70A	Upgradient	X	Assessment
DGWA-71	Upgradient	X	Assessment
DGWC-2	Downgradient	X	Assessment
DGWC-4	Downgradient	X	Assessment
DGWC-5	Downgradient	X	Assessment
DGWC-8	Downgradient	X	Assessment
DGWC-9	Downgradient	X	Assessment
DGWC-10	Downgradient	X	Assessment
DGWC-11	Downgradient	X	Assessment
DGWC-12	Downgradient	X	Assessment
DGWC-13	Downgradient	X	Assessment
DGWC-14	Downgradient	X	Assessment
DGWC-15	Downgradient	X	Assessment
DGWC-17	Downgradient	X	Assessment
DGWC-19	Downgradient	X	Assessment
DGWC-20	Downgradient	X	Assessment
DGWC-21	Downgradient	X	Assessment
DGWC-22	Downgradient	X	Assessment
DGWC-23	Downgradient	X	Assessment
DGWC-42	Downgradient	X	Assessment
DGWC-47	Downgradient	X	Assessment
DGWC-48	Downgradient	X	Assessment
ASH POND 2 and ASH PONDS 3/4 (AP-2 & 3/4) ASSESSMENT MONITORING WELL NETWORK			
B-56	Downgradient	X	Assessment
B-62	Downgradient	X	Assessment
B-63	Downgradient	X	Assessment
B-66	Downgradient	X	Assessment
B-77	Downgradient	X	Assessment

TABLE 2
GROUNDWATER SAMPLING EVENT SUMMARY
Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4
Atlanta, Georgia

Well ID	Hydraulic Location	Summary of Sampling Event	Status of Monitoring Well
		September 2022	
Purpose of Sampling Event		Detection/ Assessment	
ASH POND 2 and ASH PONDS 3/4 (AP-2 & 3/4) ASSESSMENT MONITORING WELL NETWORK			
B-82	Downgradient	X	Assessment
B-83	Downgradient	X	Assessment
B-88	Downgradient	X	Assessment
B-92	Downgradient	X	Assessment
B-93	Downgradient	X	Assessment
B-97	Downgradient	X	Assessment
B-98	Downgradient	X	Assessment
B-100	Downgradient	X	Assessment
B-101D	Downgradient	X	Assessment
B-102D	Downgradient	X	Assessment
B-104D	Downgradient	X	Assessment
B-106D	Downgradient	X	Assessment
B-107D	Downgradient	X	Assessment
B-108D	Downgradient	X	Assessment
B-109D	Downgradient	X	Assessment
B-111D	Downgradient	X	Assessment
B-115D	Downgradient	X	Assessment
B-120D	Downgradient	X	Assessment
B-122D	Downgradient	X	Assessment
ASH POND 2 and ASH PONDS 3/4 (AP-2 & 3/4) SUPPLEMENTAL SAMPLING			
B-90	Upgradient	X	Supplemental
B-91	Upgradient	X	Supplemental
B-95	Upgradient	X	Supplemental
B-96	Upgradient	X	Supplemental
B-99	Upgradient	X	Supplemental
B-116D	Upgradient	X	Supplemental
B-117D	Upgradient	X	Supplemental
B-118	Upgradient	X	Supplemental
B-119D	Upgradient	X	Supplemental
B-123D	Downgradient	X	Supplemental

TABLE 2
GROUNDWATER SAMPLING EVENT SUMMARY
Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4
Atlanta, Georgia

Well ID	Hydraulic Location	Summary of Sampling Event	Status of Monitoring Well
		September 2022	
Purpose of Sampling Event		Detection/ Assessment	
ASH POND 2 and ASH PONDS 3/4 (AP-2 & 3/4) RISK ASSESSMENT SAMPLING			
B-54	Downgradient	X	Risk Assessment
B-63	Downgradient	X	Risk Assessment
B-64	Downgradient	X	Risk Assessment
B-66	Downgradient	X	Risk Assessment
B-76	Downgradient	X	Risk Assessment
B-77	Downgradient	X	Risk Assessment
B-78	Downgradient	X	Risk Assessment
B-79	Downgradient	X	Risk Assessment
B-82	Downgradient	X	Risk Assessment
B-88	Downgradient	X	Risk Assessment
B-62	Downgradient	X	Risk Assessment
B-68	Downgradient	X	Risk Assessment
B-73	Downgradient	X	Risk Assessment
B-74	Downgradient	X	Risk Assessment

Notes:
"--" Not Sampled
[1] Monitoring Well B-122D and B-123D were installed in March/April 2022 and first sampled in June 2022.

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Well ID	Top of Casing Elevation (feet NAVD 88)	Groundwater Elevation (feet NAVD 88)
		9/6/2022
ASH POND 1 (AP-1) DETECTION MONITORING WELL NETWORK		
DGWA-53	844.26	830.21
DGWA-70A	808.52	765.56
DGWA-71	863.84	834.48
DGWC-37	766.21	752.23
DGWC-38	757.43	750.93
DGWC-39	759.89	752.24
DGWC-40	779.06	760.17
DGWC-67	766.70	756.15
DGWC-68A	765.33	754.83
DGWC-69	763.75	757.45
DGWC-121	764.16	754.49
ASH POND 1 (AP-1) ASSESSMENT MONITORING WELL NETWORK		
B-62	760.08	743.73
B-100	777.95	743.66
B-105D	779.01	760.68
B-112D	765.58	757.70
B-113D	758.22	756.18

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Well ID	Top of Casing Elevation (feet NAVD 88)	Groundwater Elevation (feet NAVD 88)
		9/6/2022
ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) DETECTION MONITORING WELL NETWORK		
DGWA-53	844.26	830.21
DGWA-70A	808.52	765.56
DGWA-71	863.84	834.48
DGWC-2	850.88	820.72
DGWC-4	814.85	789.10
DGWC-5	791.75	780.26
DGWC-8	826.38	786.86
DGWC-9	824.35	795.82
DGWC-10	823.55	791.80
DGWC-11	800.57	784.41
DGWC-12	773.86	763.28
DGWC-13	794.10	760.03
DGWC-14	792.40	770.85
DGWC-15	824.50	783.46
DGWC-17	837.05	800.32
DGWC-19	825.46	799.23
DGWC-20	822.14	797.91
DGWC-21	816.28	797.85
DGWC-22	816.59	794.02
DGWC-23	818.37	795.43
DGWC-42	804.68	774.48
DGWC-47	797.45	780.54
DGWC-48	788.33	773.65

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Well ID	Top of Casing Elevation (feet NAVD 88)	Groundwater Elevation (feet NAVD 88)
		9/6/2022
ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) ASSESSMENT MONITORING WELL NETWORK		
B-56	823.59	793.37
B-62	760.08	743.73
B-63	777.10	746.63
B-66	815.90	794.45
B-77	776.86	745.99
B-82	810.07	792.13
B-83	776.98	745.44
B-88	820.07	782.33
B-92	785.08	779.00
B-93	789.07	779.87
B-97	786.29	779.27
B-98	789.67	779.46
B-100	777.95	743.66
B-101D	824.29	792.29
B-102D	823.42	789.27
B-104D	787.90	780.82
B-106D	826.21	785.96
B-107D	823.38	799.55
B-108D	821.13	798.40
B-109D	850.73	811.56
B-111D	791.87	779.43
B-115D	789.17	767.79
B-120D	836.42	801.03
B-122D	777.03	746.21
PIEZOMETERS		
B-3	837.78	800.94
B-6	789.47	782.06
B-7	809.16	782.92
B-16	826.47	790.16
B-18	826.56	802.04
B-24	822.11	799.68
B-25	836.54	816.07
B-26	853.60	824.89
B-28	816.08	784.54
B-29	816.43	786.02
B-31	797.47	763.12
B-41	795.20	769.93
B-50	809.67	786.10
B-51	765.92	752.64
B-52	822.89	793.02
B-54	785.46	779.07
B-55	825.12	797.89
B-57	789.04	769.63

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Well ID	Top of Casing Elevation (feet NAVD 88)	Groundwater Elevation (feet NAVD 88)
		9/6/2022
PIEZOMETERS		
B-58	788.17	768.27
B-59	788.00	779.44
B-60	782.13	750.08
B-61	782.09	762.50
B-64	785.83	779.03
B-65	821.95	804.03
B-68	758.68	754.58
B-72	758.46	754.86
B-73	759.21	754.48
B-74	759.06	754.61
B-76	760.53	744.63
B-78	790.75	779.19
B-79	788.66	781.01
B-80	804.47	783.21
B-81	820.56	782.91
B-85	782.54	779.10
B-86	784.29	781.56
B-87	803.37	783.35
B-89	822.36	797.69
B-90	784.00	781.48
B-91	782.98	778.93
B-94	801.74	783.27
B-95	784.00	781.30
B-96	784.92	778.77
B-99	782.39	778.27
B-103D	795.96	782.74
B-110D	764.61	755.43
B-116D	807.82	763.52
B-117D	863.82	833.87
B-118	807.70	755.79
B-119D	807.15	759.05
B-123D	781.80	769.00

Notes:

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

TABLE 4
GROUNDWATER VELOCITY CALCULATIONS - SEPTEMBER 2022
Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4
Atlanta, Georgia

Flow Paths	Groundwater Elevation (feet)	Δ h (feet)[1]	Δ l (feet)[2]	Hydraulic Gradient (Δ h/Δ l)[3]	Average Hydraulic Conductivity, K (centimeter per second)[5]	Assumed Effective Porosity (n_e)[6]	Average Linear Groundwater Velocity	
							(feet per day)[4]	(feet per year)[4]
ASH POND 2 AND ASH PONDS 3/4 (AP-2, 3/4)								
DGWA-53/DGWC-13	830.21 760.03	70.18	2550	0.028	0.00077	0.2	0.30	110
B-26/DGWC-48	824.89 773.65	51.24	2000	0.026	0.00077	0.2	0.28	102

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

TABLE 5A
ANALYTICAL DATA SUMMARY
Ash Pond 2 and 3/4 - September 2022
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Analyte	Units	DETECTION MONITORING WELLS												
		DGWA-53	DGWA-70A	DGWA-71	DGWC-2	DGWC-4	DGWC-5	DGWC-8	DGWC-9	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14
		9/8/2022	9/7/2022	9/7/2022	9/20/2022	9/19/2022	9/14/2022	9/15/2022	9/19/2022	9/15/2022	9/15/2022	9/15/2022	9/15/2022	9/13/2022
Appendix III														
BORON, TOTAL	mg/L	0.054	< 0.0086	< 0.0086	0.42	4.8	5.0	0.83	0.80	0.42	1.7	3.3	0.69	0.091
CALCIUM, TOTAL	mg/L	17.2	5.9	6.4	37.8	376	117	29.3	45.1	64.4	66.6	41.5	36.7	11.2
CHLORIDE, TOTAL	mg/L	1.6	2.1	8.2	2	11.2	11.2	8.3	13.2	8.2	12.1	8.2	13.7	3.5
FLUORIDE, TOTAL	mg/L	0.11	0.061 J	0.056 J	0.076 J	0.061 J	0.27	0.077 J	0.80	0.84	0.064 J	0.078 J	0.095 J	0.059 J
pH	S.U.	6.32	5.60	5.65	5.98	5.76	4.75	5.20	3.98	4.87	5.52	5.75	5.56	5.71
SULFATE, TOTAL	mg/L	12.0	< 0.50	7.0	98.4	925	505	134	274	229	287	191	133	41.2
TOTAL DISSOLVED SOLIDS	mg/L	129	34.0	82.0	230	1670	850	234	456	280	414	377	216	80.0
Appendix IV														
ANTIMONY, TOTAL	mg/L	< 0.00078	< 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, TOTAL	mg/L	0.0029 J	0.0024 J	< 0.0022	< 0.0022	< 0.0022	0.0038 J	< 0.0022	0.016	0.0024 J	< 0.0022	< 0.0022	< 0.0022	< 0.0022
BARIUM, TOTAL	mg/L	0.077	0.039	0.025	0.020	0.032	0.018	0.021	0.017	0.018	0.047	0.035	0.027	0.063
BERYLLIUM, TOTAL	mg/L	< 0.000054	0.000084 J	0.000075 J	< 0.000054	0.00034 J	0.010	0.00088	0.0047	0.0063	0.00018 J	0.00019 J	0.000080 J	< 0.000054
CADMIUM, TOTAL	mg/L	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.00091	0.00087	0.0011	0.00076	0.00047 J	< 0.00011	0.00017 J	< 0.00011	< 0.00011
CHROMIUM, TOTAL	mg/L	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	0.012	< 0.00039	< 0.00039	0.0028 J	0.0018 J	0.027	0.0046 J	0.25	0.055	0.0010 J	0.025	< 0.00039	< 0.00039
FLUORIDE, TOTAL	mg/L	0.11	0.061 J	0.056 J	0.076 J	0.061 J	0.27	0.077 J	0.80	0.84	0.064 J	0.078 J	0.095 J	0.059 J
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.0044	< 0.0044	< 0.00089	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	0.0083 J	< 0.00073	0.0012 J	0.021 J	0.0037 J	0.0081 J	0.0039 J	0.023 J	0.0053 J	0.0024 J	0.00088 J	0.0040 J	0.0043 J
MERCURY, TOTAL	mg/L	< 0.00013	< 0.00013	0.00013 J	< 0.00013	< 0.00013	0.00022	< 0.00013	0.00020	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	0.027	< 0.00074	< 0.00074	0.0021 J	0.0037 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.0094 J	< 0.00074
RADIUM (226 + 228)	pCi/L	1.69	0.504 U	0.588 U	0.450 U	1.55	0.665 U	0.896	1.38	0.953	1.12	0.520 U	1.01	0.538 U
SELENIUM, TOTAL	mg/L	< 0.0014	< 0.0014	< 0.0014	0.0018 J	< 0.0014	0.019	< 0.0014	0.048	0.020	< 0.0014	< 0.0014	0.0040 J	< 0.0014
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00090	< 0.00090	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Additional Parameters														
ALKALINITY , BICARBONATE	mg/L	78.6	27.6	16.0	47.5	127	< 5.0	9.2	< 5.0	< 5.0	12.5	33.6	22.1	15.2
ALKALINITY , CARBONATE	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
ALKALINITY , TOTAL	mg/L	78.6	27.6	16.0	47.5	127	< 5.0	9.2	< 5.0	< 5.0	12.5	33.6	22.1	15.2
MAGNESIUM	mg/L	5.8	2.30	0.87	7.6	41.3	24.5	15.0	8.3	6.2	25.8	19.5	7.9	4.7
POTASSIUM	mg/L	3.6	1.60	0.76	5.1	10.5	3.9	3.7	5.7	5.7	4.5	5.5	4.9	3.2
SODIUM	mg/L	7.3	3.4	8.1	9.5	59.4	19.8	12.3	34.3	10.3	21.0	12.7	20.7	7.0
IRON, TOTAL	mg/L	5.4	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	9.9	< 0.025	0.040
FERROUS (II)	mg/L	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0
FERRIC (III)	mg/L	2.4	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	2.9	< 0.025	0.040

Notes:
1. mg/L - milligrams per Liter
2. pCi/L - picocuries per Liter
3. S.U. - Standard Units
4. < indicates the substance was not detected above the analytical method detection limit (MDL). The value displayed is the method detection limit.
5. J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed is qualified by the laboratory as an estimated number.
6. Radium data are a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.

TABLE 5A
ANALYTICAL DATA SUMMARY
Ash Pond 2 and 3/4 - September 2022
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Analyte	UNITS	DETECTION MONITORING WELLS										ASSESSMENT MONITORING WELLS		
		DGWC-15	DGWC-17	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-42	DGWC-47	DGWC-48	B-56	B-62	B-63
		9/13/2022	9/14/2022	9/14/2022	9/15/2022	9/15/2022	9/16/2022	9/20/2022	9/13/2022	9/13/2022	9/13/2022	9/16/2022	9/9/2022	9/14/2022
Appendix III														
BORON, TOTAL	mg/L	1.5	0.87	2.4	4.2	6.7	4.2	4.6	1.1	0.18	0.61	1.6	0.064	0.38
CALCIUM, TOTAL	mg/L	34.4	16.4	105	70.1	82.2	66.2	90.0	34.2	24.8	65.3	18.4	31.4	26.3
CHLORIDE, TOTAL	mg/L	21.9	19.0	18.7	26.2	17.6	18.0	11.6	18.7	3.3	8.9	6.9	5.3	6.5
FLUORIDE, TOTAL	mg/L	0.065 J	0.10	0.18	0.69	0.087 J	0.068 J	0.11	< 0.050	0.47	0.43	0.22	0.13	0.14
pH	S.U.	5.82	5.08	4.81	4.58	5.69	5.62	6.00	5.04	4.15	4.25	4.56	6.22	5.31
SULFATE, TOTAL	mg/L	145	268	388	462	268	265	242	326	150	309	234	45.8	93.3
TOTAL DISSOLVED SOLIDS	mg/L	289	434	572	618	440	462	511	540	277	527	353	160	206
Appendix IV														
ANTIMONY, TOTAL	mg/L	< 0.00078	< 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, TOTAL	mg/L	< 0.0022	< 0.0022	< 0.0022	0.016	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022
BARIUM, TOTAL	mg/L	0.042	0.031	0.027	0.017	0.024	0.029	0.019	0.016	0.022	0.014	0.028	0.018	0.032
BERYLLIUM, TOTAL	mg/L	< 0.000054	0.00058	0.0018	0.0056	0.00018 J	0.00023 J	0.00037 J	0.0028	0.0094	0.0071	0.0013	0.00013 J	0.00053
CADMIUM, TOTAL	mg/L	< 0.00011	0.00024 J	0.00032 J	0.0021	0.00029 J	0.00065	0.00017 J	0.00069	0.0011	0.0026	0.00030 J	< 0.00011	0.00018 J
CHROMIUM, TOTAL	mg/L	< 0.0011	0.0023 J	0.0024 J	0.0014 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	0.0016 J	0.016	0.052	0.75	0.0081	0.0098	0.00053 J	0.0069	0.21	0.31	0.051	< 0.00039	0.050
FLUORIDE, TOTAL	mg/L	0.065 J	0.10	0.18	0.69	0.087 J	0.068 J	0.11	< 0.050	0.47	0.43	0.22	0.13	0.14
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.0044	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	0.00093 J	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	0.0057 J	< 0.00073	0.0032 J	0.0096 J	0.0069 J	0.0033 J	0.0051 J	0.0091 J	0.050	0.099	0.0057 J	0.0085 J	0.0072 J
MERCURY, TOTAL	mg/L	< 0.00013	< 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, TOTAL	mg/L	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.0095 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074
RADIUM (226 + 228)	pCi/L	0.761 U	0.489 U	0.674 U	1.38	0.771 U	1.01	1.17 U	0.829 U	1.97	1.42	0.752 U	1.96	1.61
SELENIUM, TOTAL	mg/L	< 0.0014	0.0064	0.0073	0.062	< 0.0014	< 0.0014	< 0.0014	< 0.0014	0.0031 J	0.0019 J	0.010	< 0.0014	< 0.0014
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	0.00056 J	0.0010 J	< 0.00018	< 0.00018	< 0.00018	< 0.00018	0.00021 J	< 0.00018	0.00024 J	< 0.00018	< 0.00018
Additional Parameters														
ALKALINITY , BICARBONATE	mg/L	17.3	< 5.0	< 5.0	< 5.0	31.6	24.7	87.3	6.4	< 5.0	< 5.0	< 5.0	70.3	33.2
ALKALINITY , CARBONATE	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
ALKALINITY , TOTAL	mg/L	17.3	< 5.0	< 5.0	< 5.0	31.6	24.7	87.3	6.4	< 5.0	< 5.0	< 5.0	70.3	33.2
MAGNESIUM	mg/L	14.9	52.8	12.1	25.4	17.5	22.8	20.4	25.0	7.3	15.1	34.1	5.1	9.3
POTASSIUM	mg/L	4.4	3.7	4.1	7.7	6.6	6.8	7.7	5.3	5.4	14.0	5.0	2.4	2.7
SODIUM	mg/L	21.5	17.5	38.9	17.3	22.4	30.4	22.9	78.3	7.8	21.7	22.2	10.2	13.0
IRON, TOTAL	mg/L	0.13	< 0.025	0.026 J	0.034 J	< 0.025	< 0.025	< 0.025	0.15	3.6	4.1	0.052	6.5	1.6
FERROUS (II)	mg/L	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.5	2.5	0.0	1.5	1.5
FERRIC (III)	mg/L	0.13	< 0.025	0.026 J	< 0.025	< 0.025	< 0.025	< 0.025	0.15	3.1	1.6	0.052	5.0	0.1

Notes:
1. mg/L - milligrams per Liter
2. pCi/L - picocuries per Liter
3. S.U. - Standard Units
4. < indicates the substance was not detected above the analytical method detection limit (MDL). The value displayed is the method detection limit.
5. J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed is qualified by the laboratory as an estimated number.
6. Radium data are a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.

TABLE 5A
ANALYTICAL DATA SUMMARY
Ash Pond 2 and 3/4 - September 2022
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Analyte	UNITS	ASSESSMENT MONITORING WELLS												
		B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97	B-98	B-100	B-101D	B-102D	B-104D
		9/16/2022	9/13/2022	9/16/2022	9/13/2022	9/16/2022	9/12/2022	9/12/2022	9/13/2022	9/13/2022	9/8/2022	9/16/2022	9/15/2022	9/13/2022
Appendix III														
BORON, TOTAL	mg/L	2.2	0.33	0.61	0.33	2.1	2.9	3.6	3.7	0.62	0.24	1.4	2.3	0.26
CALCIUM, TOTAL	mg/L	63.9	15.7	34.3	36.2	97.6	104	133	201	63.3	46.0	57.0	70.3	153
CHLORIDE, TOTAL	mg/L	8.4	2.4	9.4	2.5	8.7	10.2	15.0	19.5	4.9	10.2	8.7	9.9	8.0
FLUORIDE, TOTAL	mg/L	0.18	0.080 J	0.079 J	0.081 J	0.054 J	0.24	0.40	0.14	0.18	0.072 J	0.099 J	0.11	0.35
pH	S.U.	6.60	6.34	5.02	5.60	5.47	4.56	4.70	5.54	6.18	5.24	5.92	5.43	6.49
SULFATE, TOTAL	mg/L	285	10.0	404	109	433	394	508	677	92.1	399	223	258	505
TOTAL DISSOLVED SOLIDS	mg/L	498	113	468	210	564	696	884	1050	267	606	365	437	832
Appendix IV														
ANTIMONY, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.00096 J	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
ARSENIC, TOTAL	mg/L	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022
BARIUM, TOTAL	mg/L	0.020	0.089	0.020	0.025	0.016	0.017	0.015	0.020	0.092	0.021	0.063	0.019	0.021
BERYLLIUM, TOTAL	mg/L	< 0.000054	0.00013 J	0.0020	0.00044 J	0.0013	0.017	0.017	0.0017	0.000062 J	0.00058	0.000067 J	0.0010	0.0014
CADMIUM, TOTAL	mg/L	< 0.00011	< 0.00011	0.00073	0.00031 J	0.0019	0.0014	0.00084	0.00055	0.00031 J	0.00027 J	< 0.00011	0.00091	< 0.00011
CHROMIUM, TOTAL	mg/L	< 0.0011	< 0.0011	< 0.0011	0.0022 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	0.012	< 0.00039	0.0017 J	0.012	0.0014 J	0.073	0.057	0.0029 J	0.00063 J	0.028	0.0035 J	0.012	0.14
FLUORIDE, TOTAL	mg/L	0.18	0.080 J	0.079 J	0.081 J	0.054 J	0.24	0.40	0.14	0.18	0.072 J	0.099 J	0.11	0.35
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.0044	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	< 0.00073	0.0020 J	0.00078 J	0.0027 J	0.0021 J	0.015 J	0.013 J	0.0052 J	0.0011 J	0.0023 J	0.011 J	0.013 J	0.040
MERCURY, TOTAL	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00015 J	0.00016 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.00084 J	< 0.00074	< 0.00074	0.0015 J	< 0.00074
RADIUM (226 + 228)	pCi/L	0.832 U	1.11	0.694 U	0.893 U	1.25	2.34	1.09	1.11	2.03	0.643 U	1.64	0.610 U	9.12
SELENIUM, TOTAL	mg/L	< 0.0014	< 0.0014	< 0.0014	0.024	0.0020 J	0.012	0.013	0.0032 J	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	0.00020 J	< 0.00090	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Additional Parameters														
ALKALINITY , BICARBONATE	mg/L	119	86.2	5.0	39.2	15.8	< 5.0	< 5.0	54.0	102	31.5	35.5	11.6	69.1
ALKALINITY , CARBONATE	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
ALKALINITY , TOTAL	mg/L	119	86.2	5.0	39.2	15.8	< 5.0	< 5.0	54.0	102	31.5	35.5	11.6	69.1
MAGNESIUM	mg/L	44.0	4.6	79.6	10.1	35.7	17.4	22.4	34.3	4.7	46.3	20.7	15.0	27.5
POTASSIUM	mg/L	5.5	1.1	5.3	2.6	11.3	5.7	6.5	5.6	8.2	1.2	6.0	6.2	8.2
SODIUM	mg/L	30.5	7.7	17.1	9.6	28.6	18.4	24.5	40.1	8.9	27.0	18.9	17.9	19.6
IRON, TOTAL	mg/L	3.0	29.8	0.064	< 0.025	0.25	0.036 J	< 0.025	< 0.025	0.13	25.0	0.11	0.033 J	10.3
FERROUS (II)	mg/L	2.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0	2.0
FERRIC (III)	mg/L	0.5	22.8	0.064	< 0.025	0.25	0.036 J	< 0.025	< 0.025	0.13	18.0	0.11	0.033 J	8.3

Notes:
1. mg/L - milligrams per Liter
2. pCi/L - picocuries per Liter
3. S.U. - Standard Units
4. < indicates the substance was not detected above the analytical method detection limit (MDL). The value displayed is the method detection limit.
5. J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed is qualified by the laboratory as an estimated number
6. Radium data are a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement

TABLE 5A
ANALYTICAL DATA SUMMARY
Ash Pond 2 and 3/4 - September 2022
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Analyte	UNITS	ASSESSMENT MONITORING WELLS							
		B-106D	B-107D	B-108D	B-109D	B-111D	B-115D	B-120D	B-122D
		9/16/2022	9/14/2022	9/15/2022	9/20/2022	9/14/2022	9/14/2022	9/19/2022	9/14/2022
Appendix III									
BORON, TOTAL	mg/L	1.0	11.2	7.1	0.61	0.24	0.58	1.7	0.25
CALCIUM, TOTAL	mg/L	35.3	82.6	85.1	40.5	90.7	65.5	142	51.0
CHLORIDE, TOTAL	mg/L	6.6	12.9	27.6	3.5	10.3	10.7	5.8	15.5
FLUORIDE, TOTAL	mg/L	0.080 J	0.053 J	0.061 J	0.15	0.38	0.63	0.057 J	0.17
pH	S.U.	5.82	5.87	5.86	6.38	7.09	5.76	5.21	6.07
SULFATE, TOTAL	mg/L	137	327	318	108	228	297	489	121
TOTAL DISSOLVED SOLIDS	mg/L	240	582	540	327	470	519	867	315
Appendix IV									
ANTIMONY, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
ARSENIC, TOTAL	mg/L	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022
BARIUM, TOTAL	mg/L	0.021	0.057	0.054	0.055	0.028	0.014	0.023	0.046
BERYLLIUM, TOTAL	mg/L	0.00011 J	< 0.000054	< 0.000054	0.000080 J	< 0.000054	0.010	0.0011	0.00028 J
CADMIUM, TOTAL	mg/L	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.00018 J	0.0012	< 0.00011
CHROMIUM, TOTAL	mg/L	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	< 0.00039	0.00061 J	0.0010 J	< 0.00039	< 0.00039	0.23	0.0027 J	0.0033 J
FLUORIDE, TOTAL	mg/L	0.080 J	0.053 J	0.061 J	0.15	0.38	0.63	0.057 J	0.17
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	0.0054 J	0.015 J	0.016 J	0.013 J	0.020 J	0.082	0.076	0.013 J
MERCURY, TOTAL	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	< 0.00074	< 0.00074	< 0.00074	0.0014 J	0.0069 J	< 0.00074	< 0.00074	0.0011 J
RADIUM (226 + 228)	pCi/L	0.655 U	0.737 U	1.36	16.5	6.23	13.3	2.22	7.94
SELENIUM, TOTAL	mg/L	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	0.0045 J	0.0038 J	< 0.0014
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Additional Parameters									
ALKALINITY , BICARBONATE	mg/L	29.9	28.0	27.4	96.2	112	8.9	27.8	123
ALKALINITY , CARBONATE	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
ALKALINITY , TOTAL	mg/L	29.9	28.0	27.4	96.2	112	8.9	27.8	123
MAGNESIUM	mg/L	16.7	30.4	34.4	11.7	8.8	16.6	31.8	9.9
POTASSIUM	mg/L	3.8	5.9	5.5	7.4	6.2	10.1	9.3	4.0
SODIUM	mg/L	14.6	19.2	17.9	22.1	38.8	21.8	33.1	31.3
IRON, TOTAL	mg/L	0.031 J	0.36	0.40	13.6	2.2	7.5	0.070	13.8
FERROUS (II)	mg/L	0.0	0.5	0.5	2.5	1.5	6.5	0.0	4.0
FERRIC (III)	mg/L	0.031 J	< 0.025	< 0.025	11.1	0.70	1.0	0.070	9.8

Notes:
1. mg/L - milligrams per Liter
2. pCi/L - picocuries per Liter
3. S.U. - Standard Units
4. < indicates the substance was not detected above the analytical method detection limit (MDL). The value displayed is the method detection limit.
5. J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed is qualified by the laboratory as an estimated number
6. Radium data are a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement

TABLE 5B
SUPPLEMENTAL SAMPLING ANALYTICAL DATA SUMMARY - SEPTEMBER 2022
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Analyte	Units	SUPPLEMENTAL SAMPLING				
		B-116D	B-117D	B-118	B-119D	B-123D
		9/8/2022	9/15/2022	9/9/2022	9/12/2022	9/20/2022
Appendix III						
BORON, TOTAL	mg/L	< 0.0086	0.011 J	< 0.0086	0.048	0.49
CALCIUM, TOTAL	mg/L	10.1	9.5	5.2	10.4	90.8
CHLORIDE, TOTAL	mg/L	2.4	4.6	3.1	1.8	8.6
FLUORIDE, TOTAL	mg/L	0.065 J	0.090 J	0.080 J	0.084 J	0.57
pH	S.U.	5.97	5.86	6.49	6.57	7.13
SULFATE, TOTAL	mg/L	0.54 J	14.4	2.8	2.80	292
TOTAL DISSOLVED SOLIDS	mg/L	82.0	106	78.0	87.0	533
Appendix IV						
ANTIMONY, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	0.0015 J	< 0.00078
ARSENIC, TOTAL	mg/L	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022
BARIUM, TOTAL	mg/L	0.017	0.043	0.022	0.0029 J	0.023
BERYLLIUM, TOTAL	mg/L	< 0.000054	< 0.000054	< 0.000054	< 0.000054	0.00022 J
CADMIUM, TOTAL	mg/L	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
CHROMIUM, TOTAL	mg/L	< 0.0011	< 0.0011	0.0017 J	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	< 0.00039	< 0.00039	< 0.00039	0.0031 J	0.056
FLUORIDE, TOTAL	mg/L	0.065 J	0.090 J	0.080 J	0.084 J	0.57
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	0.0054 J	0.0094 J	0.0024 J	0.0045 J	0.034
MERCURY, TOTAL	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	< 0.00074	< 0.00074	0.0047 J	0.015	0.0015 J
RADIUM (226 + 228)	pCi/L	0.686 U	0.875 U	0.787 U	0.328 U	2.95
SELENIUM, TOTAL	mg/L	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Additional Parameters						
ALKALINITY , BICARBONATE	mg/L	50.3	42.0	35.2	60.6	38.5
ALKALINITY , CARBONATE	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
ALKALINITY , TOTAL	mg/L	50.3	42.0	35.2	60.6	38.5
MAGNESIUM	mg/L	3.4	1.5	2.0	3.2	13.0
POTASSIUM	mg/L	2.2	2.6	2.3	2.0	7.6
SODIUM	mg/L	7.7	16.6	10.0	10.2	29.0
IRON, TOTAL	mg/L	0.087	< 0.025	0.14	1.5	5.4
FERROUS (II)	mg/L	0.0	0.0	0.0	0.0	4.5
FERRIC (III)	mg/L	0.087	< 0.025	0.14	1.5	0.9

Notes:
1. mg/L - milligrams per Liter
2. pCi/L - picocuries per Liter
3. S.U. - Standard Units
4. < indicates the substance was not detected above the analytical method detection limit (MDL). The value displayed is the method detection limit.
5. J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed is qualified by the laboratory as an estimated number.
6. Radium data are a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.

TABLE 6
SURFACE WATER ANALYTICAL DATA SUMMARY
Ash Pond 2 and 3/4 - September 2022
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Analyte	Units	SURFACE WATER SAMPLES						
		CR+0.4	CR+0.2	Dewatering Downstream	Dewatering Upstream	CR-0.1	CR-0.2	CR-0.5
		10/27/2022	10/27/2022	10/27/2022	10/27/2022	10/27/2022	10/27/2022	10/27/2022
Appendix III								
Boron	mg/L	< 0.040	< 0.040	0.070	< 0.040	0.041	0.046	0.048
Calcium	mg/L	7.7	7.8	14.4	7.6	8.1	7.7	7.9
Chloride	mg/L	11.7	11.9	25.6	12.0	12.7	12.3	12.8
Fluoride	mg/L	0.18	0.18	0.36	0.17	0.19	0.18	0.17
Sulfate	mg/L	7.6	7.7	36.4	7.0	9.1	7.1	7.3
Total Dissolved Solids	mg/L	55.0	36.0	52.0	67.0	42.0	104.0	75.0
Appendix IV								
Arsenic	mg/L	< 0.0050	--	--	--	--	--	--
Cobalt	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Lithium	mg/L	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Molybdenum	mg/L	< 0.010	--	--	--	--	--	--
Major Ions								
Alkalinity, Total as CaCO3	mg/L	27.3	27.0	39.3	26.7	27.4	27.4	27.2
Alkalinity,Bicarbonate (CaCO3)	mg/L	27.3	27.0	39.3	26.7	27.4	27.4	27.2
Magnesium	mg/L	2.3	2.3	4.0	2.2	2.4	2.3	2.3
Potassium	mg/L	4.3	4.3	7.3	4.1	4.3	4.2	4.3
Sodium	mg/L	12.8	12.9	29.4	12.2	13.8	12.5	12.8

Notes:

mg/L = miligrams per liter

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

"--" = analysis was not performed

TABLE 7
SUMMARY OF BACKGROUND LEVELS AND GWPS
Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4
Atlanta, Georgia

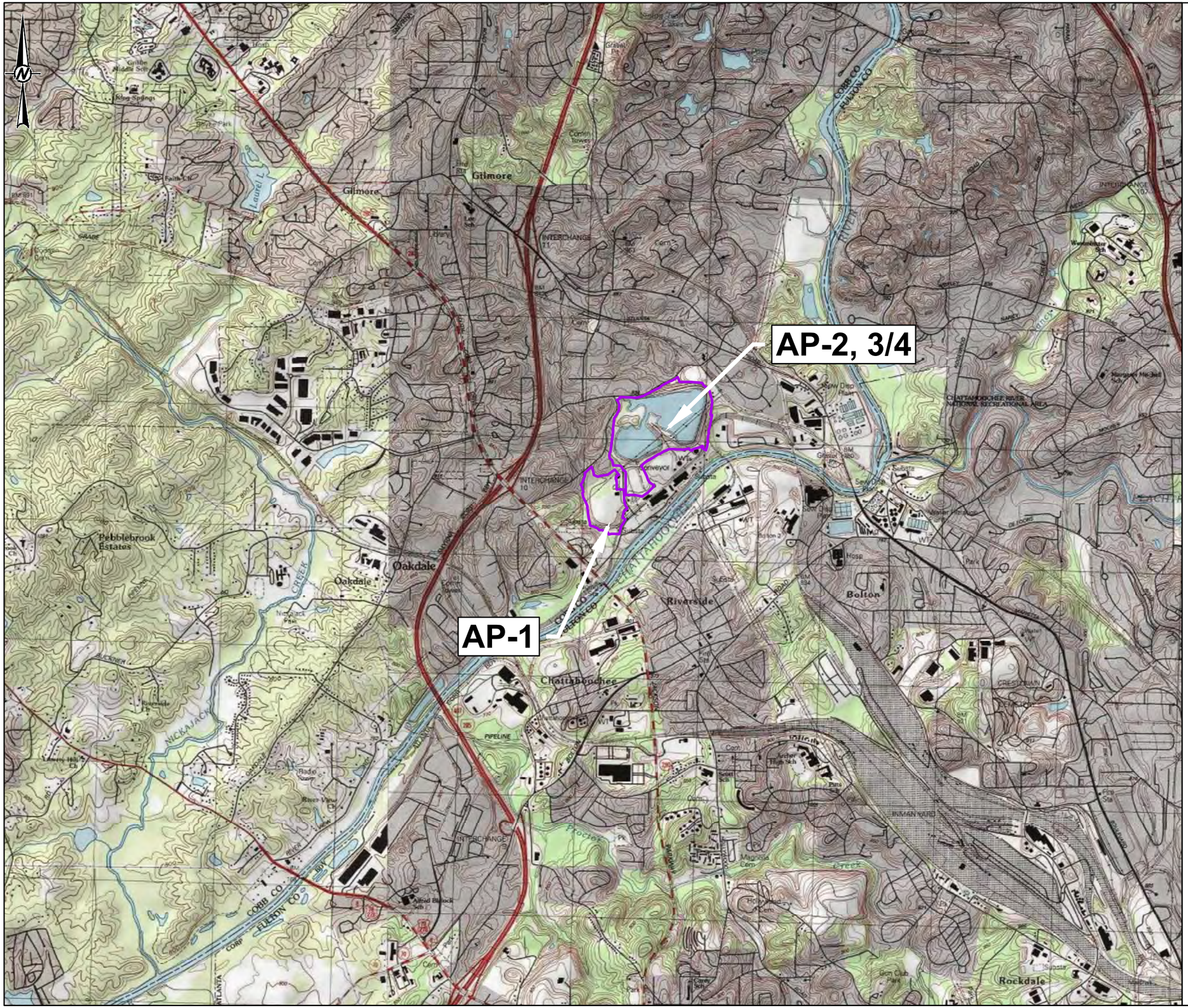
Analyte	Units	Maximum Contaminant Level (MCL)	Rule Specified Limit (RSL)	Site Specific Background September 2022[1]	GWPS September 2022
Antimony	mg/L	0.006	--	0.003[2]	0.006
Arsenic	mg/L	0.01	--	0.005[2]	0.01
Barium	mg/L	2	--	0.19	2
Beryllium	mg/L	0.004	--	0.0009	0.004
Cadmium	mg/L	0.005	--	0.0005[2]	0.005
Chromium	mg/L	0.1	--	0.005[2]	0.1
Cobalt	mg/L	NA	0.006	0.032	0.032
Fluoride	mg/L	4	--	0.42	4
Lead	mg/L	NA	0.015	0.001[2]	0.015
Lithium	mg/L	NA	0.04	0.03[2]	0.04
Mercury	mg/L	0.002	--	0.0002[2]	0.002
Molybdenum	mg/L	NA	0.1	0.041	0.1
Radium (226 + 228)	pCi/L	5	--	4.8	5.0
Selenium	mg/L	0.05	--	0.005[2]	0.05
Thallium	mg/L	0.002	--	0.001[2]	0.002

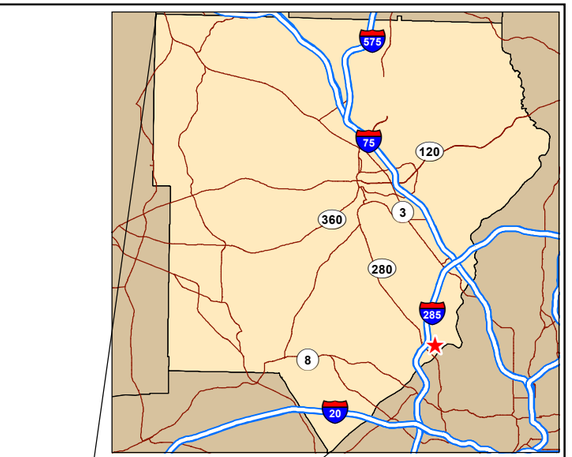
Notes:
mg/L = milligrams per liter; pCi/L = picocuries per liter; NA = Not Available

[1] The background limits are used when determining the groundwater protection standard (GWPS) under 40 CFR § 257.95(h) and 391-3-4-.10(6)(a).

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

Figures





REFERENCE

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

0 0.5 1

1 INCH=0.5 MILES

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

Georgia Power

PROJECT
2022 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT- ASH POND 2 AND 3/4

TITLE
SITE LOCATION MAP

CONSULTANT
wsp

YYYY-MM-DD	2022-4-26
PREPARED	SEB
DESIGN	SEB
CHECKED	DP
REVIEWED/APPROVED	RPK

PROJECT No.
166849622

Rev.
0

FIGURE
1

LEGEND

- EXISTING CONTOURS (SEE REFERENCE 2)
- PROPERTY BOUNDARY (SEE REFERENCE 1)
- APPROXIMATE PRE-CLOSURE CCR LIMITS
- FINAL CLOSURE CCR LIMITS
- PERMIT BOUNDARY
- UPGRADIENT WELL
- AP-1 MONITORING WELL
- AP-2, 3/4 MONITORING WELL
- PIEZOMETER
- GOLDER 2017 BORINGS
- GOLDER 2021 PIEZOMETERS (SEE REFERENCE 3)
- AREA WHERE ASH HAS BEEN CERTIFIED REMOVED AS OF 2/28/2022

NOTES

1. EXISTING TOPOGRAPHIC CONTOUR INTERVAL = 1 FOOT.

2. CLOSURE ACTIVITIES FOR AP-1 WERE INITIATED IN JANUARY 2016 AND FINAL COVER CONSTRUCTION ACTIVITIES WERE COMPLETED IN Q1 2017. COMPLETION OF FINAL POST COVER CONSTRUCTION ACTIVITIES AND IMPROVEMENTS INCLUDING A PLANNED BARRIER WALL AT AP-1 ARE EXPECTED BY 2023. CLOSURE ACTIVITIES FOR AP-2 WERE INITIATED IN JANUARY 2016. AP-2 CLOSURE ACTIVITIES CONSISTED OF CLOSURE BY REMOVAL OF CCR, WHERE CCR REMOVED FROM AP-2 WAS PLACED IN THE ADJACENT UNITS AP-1 AND AP-3. CLOSURE CONSTRUCTION ACTIVITIES AT AP-2 WERE COMPLETED IN Q1 OF 2017, AND BACKFILL DEVELOPMENT OF AP-2 WAS STARTED IN 2020 AND IS EXPECTED TO BE COMPLETE IN 2021. CLOSURE ACTIVITIES FOR AP-3 AND AP-4 WERE INITIATED IN JANUARY 2016. AP-3 AND AP-4 ARE CURRENTLY UNDERGOING CLOSURE AS COMBINED UNIT AP-3/4, AND CLOSURE CONSTRUCTION ACTIVITIES ARE EXPECTED TO BE COMPLETE IN 2022.

REFERENCES

1. APPROXIMATE PROPERTY BOUNDARY PROVIDED BY SOUTHERN COMPANY SERVICES (2017).

2. THE EXISTING TOPOGRAPHY, CONTOUR ELEVATIONS AND AERIAL IMAGERY FOR THE ASH PONDS 1 THROUGH 4 AREAS PROVIDED BY GEORGIA POWER COMPANY ON FEBRUARY 2023. THE DATE OF THE AERIAL IMAGERY PROVIDED AND SHOWN ON THIS PLAN, FOR AP- 1 THROUGH 4 IS AUGUST 31, 2022.

3. SELECT BORING/PIEZOMETER LOCATIONS AND ELEVATIONS RESURVEYED BY METRO ENGINEERING & SURVEYING CO., INC., 2020 / 2021.

4. COORDINATES SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET); ELEVATIONS DISPLAY IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM 1988 (FEET NAVD88).

5. AERIAL IMAGERY FOR THE SURROUNDING AREAS OF ASH PONDS 1 THROUGH 4 SOURCE: GOOGLE EARTH © PRO 2010, IMAGE DATED 09/5/2019. IMAGE GEORECTIFIED BY GOLDER AND INTENDED FOR INDICATIVE PURPOSES ONLY.

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH - ATKINSON

Georgia Power

PROJECT
2022 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTIONS REPORT ASH POND 2 & ASH POND 3/4

TITLE
PLANT MCDONOUGH CCR REMOVAL AREA

CONSULTANT
wsp

YYYY-MM-DD	2023-02-27
DESIGNED	SEB
PREPARED	CRP
CHECKED	DLP
REVIEWED / APPROVED	GLH

PROJECT NO.
166849622

REV.

FIGURE
2

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

LEGEND

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

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

REFERENCE

1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND AUGUST 31, 2022 PROVIDED BY GPC.

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

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

0 600 1,200

1 IN= 600 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

Georgia Power

PROJECT
2022 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT- ASH POND 2 AND 3/4

TITLE
MONITORING WELL, PIEZOMETER AND SURFACE WATER LOCATION MAP

CONSULTANT

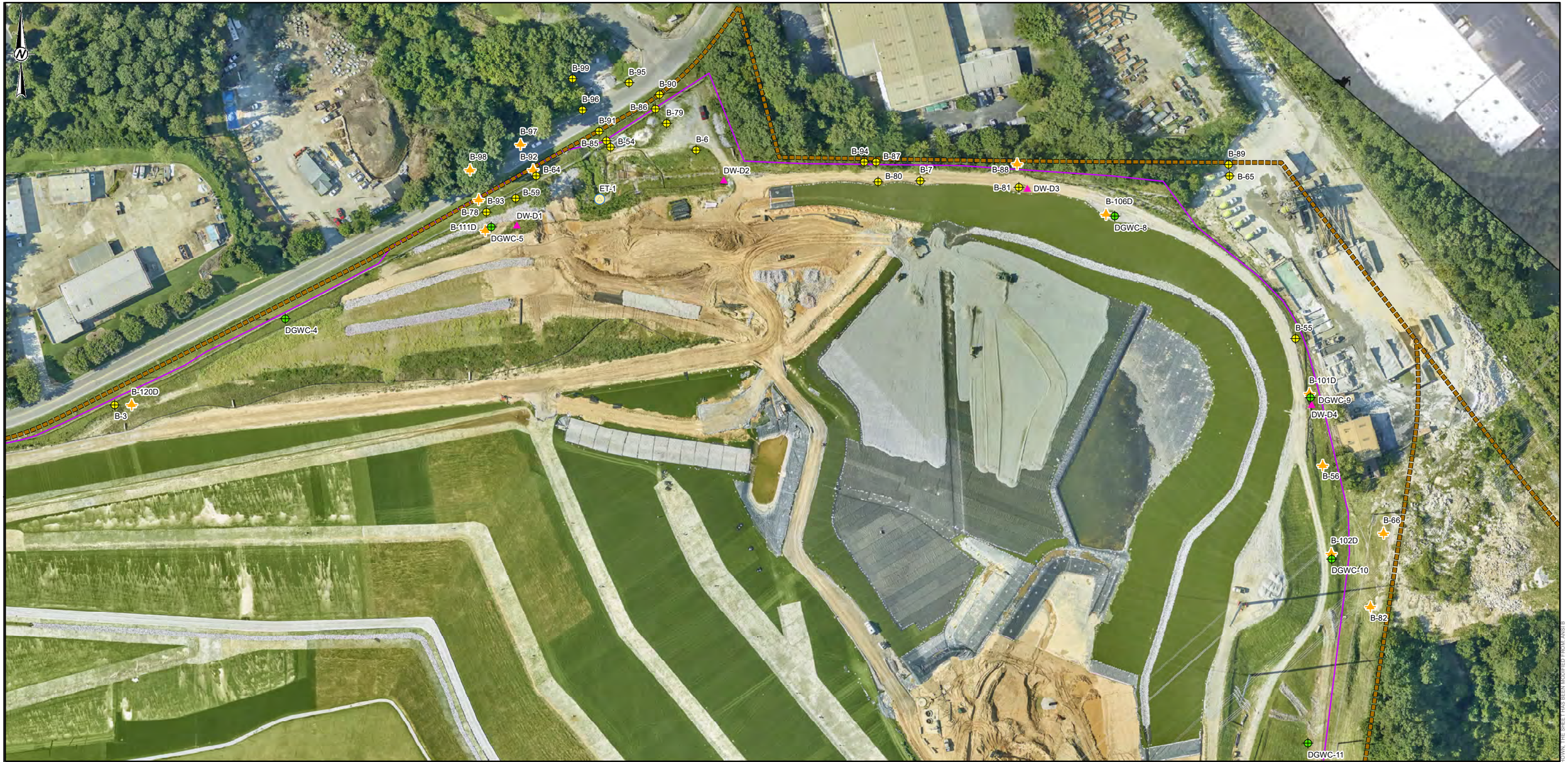
wsp

YYYY-MM-DD	2022-07-11
PREPARED	SEB
DESIGN	DLP
CHECKED	DP/RPK
REVIEWED/APPROVED	RPK

PROJECT No. 166849621 | Rev. 0 | FIGURE **3A**

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

Path: C:\Users\brofe\Golder Associates\166849\8_SCS Plant McDonough GW Cons Svcs GA - 800_Shapefiles\MXD\Remedy Selection Work Plan\Figure 2 - Monitoring Well, Piezometer and SW Map.mxd



LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELLS
- PIEZOMETER
- TEMPORARY AEM WELL
- STAFF GUAGE
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

REFERENCE

1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND AUGUST 31, 2022 PROVIDED BY GPC.

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

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

0 140 280

1"=140 FT FEET

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH

Georgia Power

PROJECT
2022 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT- ASH POND 2 AND 3/4

TITLE
(INSET) MONITORING WELL, PIEZOMETER AND TEMPORARY AEM WELL LOCATION MAP

CONSULTANT

wsp

YYYY-MM-DD	2023-02-06
PREPARED	SEB
DESIGN	DAH
CHECKED	TR
REVIEW/APPROVED	RPK

PROJECT NO. 166849621 CONTROL REV. 0 FIGURE **3B**

LEGEND

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

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED SEPTEMBER 6, 2022 BY WSP GOLDER.
3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM (FT NAVD88).
4. WELLS AND PIEZOMETERS THAT CONTAIN A "D" DESIGNATION FOLLOWING THE NUMBER ARE DEEP WELLS AND ELEVATIONS ARE NOT USED FOR CONTOURING.
5. NM = NOT MEASURED.

REFERENCE

1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND AUGUST 31, 2022 PROVIDED BY GPC.
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021 AND MAY 2021.

0 600 1,200

1 IN= 600 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

PROJECT
2022 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT- ASH POND 2 AND 3/4

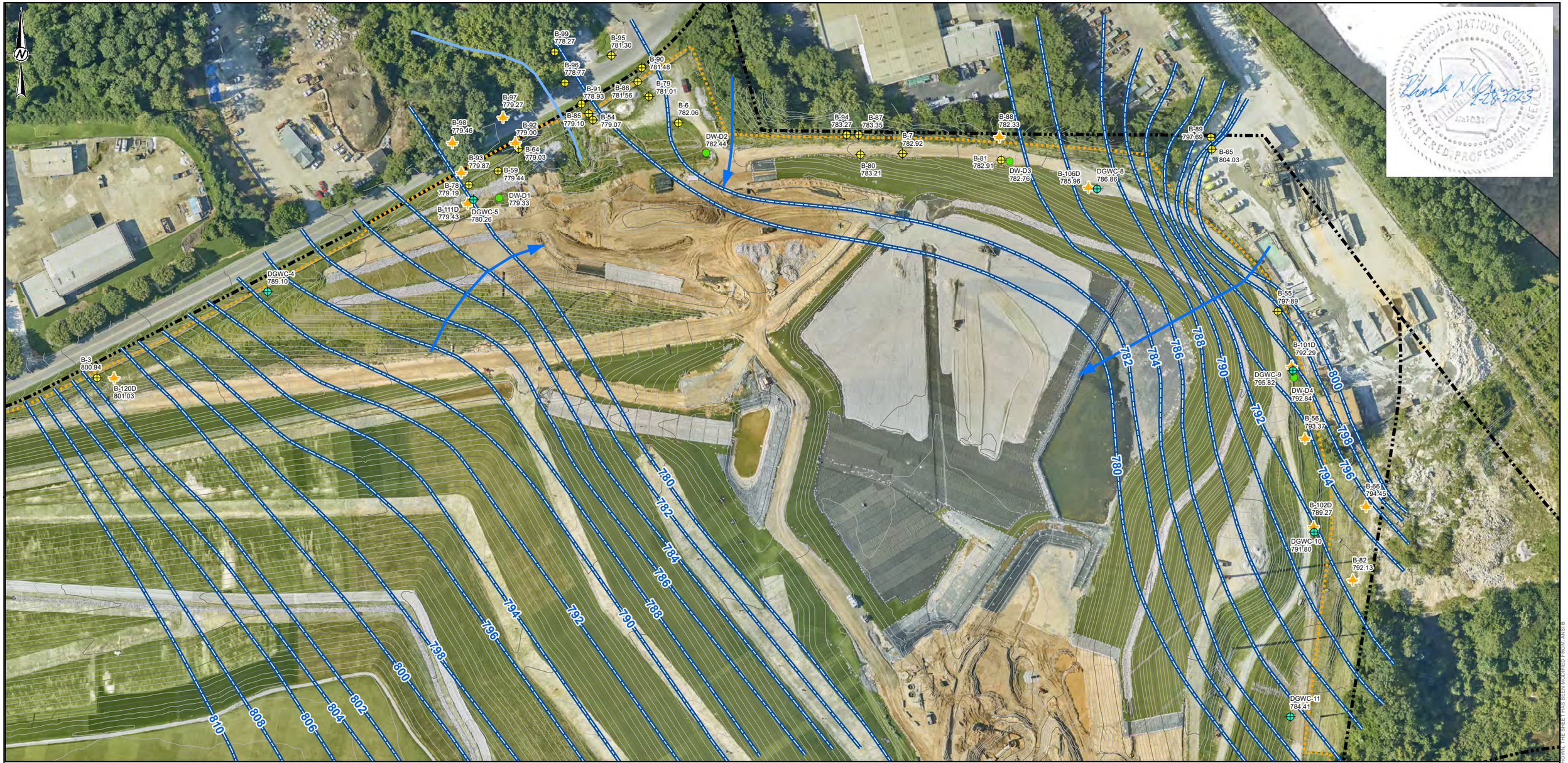
TITLE
SITE POTENTIOMETRIC MAP – SEPTEMBER 6, 2022

CONSULTANT

YYYY-MM-DD	2022-10-07
PREPARED	SEB
DESIGN	SEB
CHECKED	DLP
REVIEWED/APPROVED	RPK

PROJECT No. 166849622
Rev. 0
FIGURE 4A

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



LEGEND

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

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
2. GROUNDWATER ELEVATION MEAUSREMENTS OBTAINED SEPTEMBER 6, 2022 BY WSP GOLDER.
3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM (FT NAVD88).
4. WELLS AND PIEZOMETERS THAT CONTAIN A "D" DESIGNATION FOLLOWING THE NUMBER ARE DEEP WELLS AND ELEVATIONS ARE NOT USED FOR CONTOURING.

REFERENCE

1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND AUGUST 31, 2022 PROVIDED BY GPC.
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021 AND MAY 2021.

0 140 280
1"=140 FT FEET

CLIENT
GEORGIA POWER COMPANY PLANT MCDONOUGH-ATKINSON

PROJECT
2022 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT- ASH POND 2 AND 3/4

TITLE
(INSET) SITE POTENTIOMETRIC MAP
SEPTEMBER 6, 2022

CONSULTANT

YYYY-MM-DD	2022-10-25
PREPARED	SEB
DESIGN	SEB
CHECKED	DLP
REVIEW/APPROVED	RPK

PROJECT NO. 166849622 | CONTROL | REV. 0 | FIGURE **4B**

APPENDIX A

Field Data Forms and Instrument Calibration Forms

APPENIDX A

Field Data Forms

Low-Flow Test Report:

Test Date / Time: 9/8/2022 10:03:35 AM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: DGWA-53 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 26.89 ft** **Total Depth: 36.89 ft** **Initial Depth to Water: 14.2 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Pump Intake From TOC: 31 ft** **Estimated Total Volume Pumped: 30750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 13.25 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
9/8/2022 10:03 AM	00:00	6.60 pH	82.46 °F	0.17 µS/cm	5.60 mg/L	42.90 NTU	106.3 mV	14.20 ft	150.00 ml/min
9/8/2022 10:08 AM	05:00	6.12 pH	70.29 °F	0.17 µS/cm	2.33 mg/L	40.80 NTU	83.9 mV	15.53 ft	150.00 ml/min
9/8/2022 10:13 AM	10:00	6.13 pH	69.19 °F	0.17 µS/cm	2.42 mg/L	40.40 NTU	90.5 mV	16.81 ft	150.00 ml/min
9/8/2022 10:18 AM	15:00	6.14 pH	69.91 °F	0.17 µS/cm	2.49 mg/L	39.90 NTU	91.7 mV	17.75 ft	150.00 ml/min
9/8/2022 10:23 AM	20:00	6.14 pH	70.15 °F	0.17 µS/cm	2.61 mg/L	38.80 NTU	93.4 mV	18.58 ft	150.00 ml/min
9/8/2022 10:28 AM	25:00	6.15 pH	70.09 °F	0.17 µS/cm	2.62 mg/L	38.80 NTU	94.4 mV	19.43 ft	150.00 ml/min
9/8/2022 10:33 AM	30:00	6.15 pH	70.40 °F	0.17 µS/cm	2.61 mg/L	37.10 NTU	86.2 mV	20.10 ft	150.00 ml/min
9/8/2022 10:38 AM	35:00	6.16 pH	70.40 °F	0.17 µS/cm	2.67 mg/L	35.00 NTU	93.4 mV	20.63 ft	150.00 ml/min
9/8/2022 10:43 AM	40:00	6.17 pH	70.06 °F	0.17 µS/cm	2.65 mg/L	33.30 NTU	88.9 mV	21.23 ft	150.00 ml/min
9/8/2022 10:48 AM	45:00	6.18 pH	69.80 °F	0.17 µS/cm	2.87 mg/L	30.50 NTU	86.6 mV	21.75 ft	150.00 ml/min
9/8/2022 10:53 AM	50:00	6.18 pH	69.56 °F	0.17 µS/cm	3.07 mg/L	30.70 NTU	78.3 mV	22.40 ft	150.00 ml/min
9/8/2022 10:58 AM	55:00	6.19 pH	69.55 °F	0.17 µS/cm	3.16 mg/L	25.30 NTU	80.5 mV	22.65 ft	150.00 ml/min
9/8/2022 11:03 AM	01:00:00	6.19 pH	69.51 °F	0.17 µS/cm	3.20 mg/L	25.20 NTU	72.5 mV	23.00 ft	150.00 ml/min
9/8/2022 11:08 AM	01:05:00	6.20 pH	69.67 °F	0.17 µS/cm	3.29 mg/L	26.10 NTU	73.9 mV	23.40 ft	150.00 ml/min

9/8/2022 11:13 AM	01:10:00	6.20 pH	70.07 °F	0.18 µS/cm	3.29 mg/L	21.30 NTU	66.3 mV	23.75 ft	150.00 ml/min
9/8/2022 11:18 AM	01:15:00	6.20 pH	70.71 °F	0.18 µS/cm	3.24 mg/L	21.50 NTU	68.6 mV	24.01 ft	150.00 ml/min
9/8/2022 11:23 AM	01:20:00	6.21 pH	70.96 °F	0.18 µS/cm	3.33 mg/L	23.00 NTU	66.1 mV	24.35 ft	150.00 ml/min
9/8/2022 11:28 AM	01:25:00	6.22 pH	70.32 °F	0.18 µS/cm	3.26 mg/L	18.60 NTU	60.0 mV	24.63 ft	150.00 ml/min
9/8/2022 11:33 AM	01:30:00	6.23 pH	70.22 °F	0.18 µS/cm	3.21 mg/L	17.90 NTU	59.4 mV	24.95 ft	150.00 ml/min
9/8/2022 11:38 AM	01:35:00	6.23 pH	70.56 °F	0.18 µS/cm	3.19 mg/L	17.00 NTU	54.4 mV	25.25 ft	150.00 ml/min
9/8/2022 11:43 AM	01:40:00	6.24 pH	70.80 °F	0.18 µS/cm	3.15 mg/L	16.90 NTU	53.2 mV	25.45 ft	150.00 ml/min
9/8/2022 11:48 AM	01:45:00	6.25 pH	70.73 °F	0.18 µS/cm	3.08 mg/L	16.00 NTU	48.3 mV	25.64 ft	150.00 ml/min
9/8/2022 11:53 AM	01:50:00	6.27 pH	70.78 °F	0.19 µS/cm	3.05 mg/L	16.30 NTU	46.1 mV	25.90 ft	150.00 ml/min
9/8/2022 11:58 AM	01:55:00	6.28 pH	70.70 °F	0.19 µS/cm	2.97 mg/L	13.90 NTU	42.5 mV	26.05 ft	150.00 ml/min
9/8/2022 12:03 PM	02:00:00	6.28 pH	70.56 °F	0.19 µS/cm	2.93 mg/L	13.50 NTU	40.9 mV	26.20 ft	150.00 ml/min
9/8/2022 12:08 PM	02:05:00	6.28 pH	70.81 °F	0.19 µS/cm	2.86 mg/L	13.20 NTU	38.7 mV	26.32 ft	150.00 ml/min
9/8/2022 12:13 PM	02:10:00	6.27 pH	70.99 °F	0.19 µS/cm	2.80 mg/L	11.70 NTU	38.9 mV	26.45 ft	150.00 ml/min
9/8/2022 12:18 PM	02:15:00	6.28 pH	70.48 °F	0.19 µS/cm	2.72 mg/L	12.00 NTU	35.4 mV	26.60 ft	150.00 ml/min
9/8/2022 12:23 PM	02:20:00	6.28 pH	70.48 °F	0.19 µS/cm	2.58 mg/L	10.70 NTU	33.2 mV	26.70 ft	150.00 ml/min
9/8/2022 12:28 PM	02:25:00	6.28 pH	71.22 °F	0.19 µS/cm	2.56 mg/L	10.00 NTU	30.1 mV	26.85 ft	150.00 ml/min
9/8/2022 12:33 PM	02:30:00	6.28 pH	71.17 °F	0.19 µS/cm	2.45 mg/L	9.56 NTU	30.7 mV	26.85 ft	150.00 ml/min
9/8/2022 12:38 PM	02:35:00	6.29 pH	70.64 °F	0.19 µS/cm	2.41 mg/L	8.71 NTU	29.9 mV	26.93 ft	150.00 ml/min
9/8/2022 12:43 PM	02:40:00	6.30 pH	70.97 °F	0.20 µS/cm	2.29 mg/L	8.97 NTU	28.0 mV	27.03 ft	150.00 ml/min
9/8/2022 12:48 PM	02:45:00	6.30 pH	70.96 °F	0.20 µS/cm	2.24 mg/L	7.46 NTU	26.5 mV	27.10 ft	150.00 ml/min
9/8/2022 12:53 PM	02:50:00	6.31 pH	71.76 °F	0.20 µS/cm	2.18 mg/L	7.26 NTU	24.4 mV	27.16 ft	150.00 ml/min
9/8/2022 12:58 PM	02:55:00	6.31 pH	71.38 °F	0.20 µS/cm	2.12 mg/L	7.54 NTU	25.5 mV	27.24 ft	150.00 ml/min
9/8/2022 1:03 PM	03:00:00	6.31 pH	70.88 °F	0.20 µS/cm	2.08 mg/L	8.46 NTU	25.4 mV	27.30 ft	150.00 ml/min
9/8/2022 1:08 PM	03:05:00	6.31 pH	71.50 °F	0.20 µS/cm	2.01 mg/L	7.87 NTU	24.8 mV	27.38 ft	150.00 ml/min
9/8/2022 1:13 PM	03:10:00	6.32 pH	72.00 °F	0.20 µS/cm	1.89 mg/L	7.67 NTU	23.2 mV	27.40 ft	150.00 ml/min
9/8/2022 1:18 PM	03:15:00	6.31 pH	71.85 °F	0.20 µS/cm	1.83 mg/L	6.44 NTU	22.8 mV	27.40 ft	150.00 ml/min
9/8/2022 1:23 PM	03:20:00	6.32 pH	71.28 °F	0.20 µS/cm	1.73 mg/L	5.76 NTU	21.0 mV	27.45 ft	150.00 ml/min
9/8/2022 1:28 PM	03:25:00	6.32 pH	71.44 °F	0.20 µS/cm	1.70 mg/L	4.39 NTU	20.9 mV	27.45 ft	150.00 ml/min

Samples

Sample ID:	Description:
DGWA-53	

Low-Flow Test Report:

Test Date / Time: 9/7/2022 9:00:52 AM
Project: SCS Plant McDonough
Operator Name: Duane Fulton

Location Name: DGWA-70A **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52.54 ft** **Total Depth: 62.54 ft** **Initial Depth to Water: 43.02 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 57 ft** **Estimated Total Volume Pumped: 4807.5 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.36 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883533**

Test Notes:

Weather Conditions:
Cloudy, 75

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/7/2022 9:00 AM	00:00	6.76 pH	23.69 °C	71.22 µS/cm	7.84 mg/L	1.10 NTU	142.3 mV	43.30 ft	150.00 ml/min
9/7/2022 9:05 AM	05:00	5.62 pH	19.53 °C	68.82 µS/cm	4.78 mg/L	0.16 NTU	142.9 mV	43.35 ft	150.00 ml/min
9/7/2022 9:10 AM	10:00	5.59 pH	18.70 °C	68.96 µS/cm	4.79 mg/L	0.00 NTU	139.4 mV	43.38 ft	150.00 ml/min
9/7/2022 9:15 AM	15:00	5.59 pH	18.57 °C	69.46 µS/cm	4.74 mg/L	0.00 NTU	136.2 mV	43.38 ft	150.00 ml/min
9/7/2022 9:20 AM	20:00	5.60 pH	18.57 °C	69.93 µS/cm	4.66 mg/L	0.00 NTU	134.6 mV	43.40 ft	150.00 ml/min
9/7/2022 9:25 AM	25:00	5.60 pH	19.06 °C	69.76 µS/cm	4.63 mg/L	0.00 NTU	133.7 mV	43.40 ft	150.00 ml/min
9/7/2022 9:27 AM	26:28	5.60 pH	19.15 °C	70.23 µS/cm	4.61 mg/L	0.00 NTU	126.1 mV	43.40 ft	150.00 ml/min
9/7/2022 9:27 AM	27:03	5.60 pH	19.10 °C	69.77 µS/cm	4.61 mg/L	0.00 NTU	145.9 mV	43.38 ft	150.00 ml/min
9/7/2022 9:32 AM	32:03	5.60 pH	18.99 °C	70.03 µS/cm	4.62 mg/L	0.00 NTU	137.2 mV	43.38 ft	150.00 ml/min

Samples

Sample ID:	Description:

DGWC-70A	

Low-Flow Test Report:

Test Date / Time: 9/7/2022 9:48:54 AM
Project: Plant McDonough
Operator Name: Cole Mayer

Location Name: DGWA-71 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.71 ft** **Total Depth: 47.71 ft** **Initial Depth to Water: 29.37 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 8750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.55 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

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	
9/7/2022 9:48 AM	00:00	5.77 pH	25.20 °C	73.26 µS/cm	7.41 mg/L	1.97 NTU	49.9 mV	29.37 ft	250.00 ml/min
9/7/2022 9:53 AM	05:00	5.66 pH	18.99 °C	76.50 µS/cm	2.61 mg/L	1.85 NTU	18.6 mV	29.91 ft	250.00 ml/min
9/7/2022 9:58 AM	10:00	5.64 pH	18.83 °C	77.16 µS/cm	1.97 mg/L	0.99 NTU	10.0 mV	29.89 ft	250.00 ml/min
9/7/2022 10:03 AM	15:00	5.66 pH	18.84 °C	77.35 µS/cm	1.86 mg/L	0.81 NTU	9.0 mV	29.89 ft	250.00 ml/min
9/7/2022 10:08 AM	20:00	5.68 pH	18.79 °C	77.40 µS/cm	1.88 mg/L	1.83 NTU	9.0 mV	29.90 ft	250.00 ml/min
9/7/2022 10:13 AM	25:00	5.65 pH	18.89 °C	77.37 µS/cm	1.78 mg/L	1.05 NTU	6.4 mV	29.91 ft	250.00 ml/min
9/7/2022 10:18 AM	30:00	5.64 pH	18.85 °C	77.45 µS/cm	1.70 mg/L	0.58 NTU	5.0 mV	29.91 ft	250.00 ml/min
9/7/2022 10:23 AM	35:00	5.65 pH	18.80 °C	77.56 µS/cm	1.66 mg/L	1.43 NTU	4.6 mV	29.92 ft	250.00 ml/min

Samples

Sample ID:	Description:
DGWA-71	

Low-Flow Test Report:

Test Date / Time: 9/20/2022 12:46:00 PM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: DGWC-2 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.42 ft** **Total Depth: 52.42 ft** **Initial Depth to Water: 30.5 ft**	**Pump Type: dedicated bladder** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Pump Intake From TOC: 47 ft** **Estimated Total Volume Pumped: 7500 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: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 1000 %	+/- 0.3	
9/20/2022 12:46 PM	00:00	6.52 pH	26.79 °C	335.26 µS/cm	5.82 mg/L	5.23 NTU	111.9 mV	30.50 ft	250.00 ml/min
9/20/2022 12:51 PM	05:00	6.00 pH	21.38 °C	334.93 µS/cm	1.31 mg/L	1.13 NTU	121.8 mV	30.90 ft	250.00 ml/min
9/20/2022 12:56 PM	10:00	6.00 pH	21.13 °C	337.17 µS/cm	0.98 mg/L	0.95 NTU	121.6 mV	30.90 ft	250.00 ml/min
9/20/2022 1:01 PM	15:00	6.00 pH	21.02 °C	333.42 µS/cm	0.80 mg/L	1.30 NTU	121.9 mV	30.90 ft	250.00 ml/min
9/20/2022 1:06 PM	20:00	6.00 pH	20.89 °C	333.95 µS/cm	0.58 mg/L	2.23 NTU	115.9 mV	30.90 ft	250.00 ml/min
9/20/2022 1:11 PM	25:00	6.00 pH	20.94 °C	332.51 µS/cm	0.54 mg/L	1.28 NTU	116.0 mV	30.90 ft	250.00 ml/min
9/20/2022 1:16 PM	30:00	5.98 pH	21.06 °C	334.47 µS/cm	0.42 mg/L	1.16 NTU	122.4 mV	30.90 ft	250.00 ml/min

Samples

Sample ID:	Description:
DGWC-2	

Low-Flow Test Report:

Test Date / Time: 9/19/2022 1:01:02 PM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: DGWC-4 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 36.71 ft** **Total Depth: 46.71 ft** **Initial Depth to Water: 25.85 ft**	**Pump Type: Dedicated bladder** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Pump Intake From TOC: 41 ft** **Estimated Total Volume Pumped: 6250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.35 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 1000 %	+/- 0.3	
9/19/2022 1:01 PM	00:00	3.90 pH	31.28 °C	0.31 µS/cm	7.18 mg/L	21.70 NTU	192.2 mV	25.85 ft	250.00 ml/min
9/19/2022 1:06 PM	05:00	5.83 pH	21.20 °C	1,752.6 µS/cm	1.04 mg/L	2.71 NTU	170.3 mV	26.20 ft	250.00 ml/min
9/19/2022 1:11 PM	10:00	5.77 pH	20.14 °C	1,813.4 µS/cm	0.78 mg/L	1.29 NTU	187.2 mV	26.20 ft	250.00 ml/min
9/19/2022 1:16 PM	15:00	5.77 pH	19.99 °C	1,832.2 µS/cm	0.68 mg/L	0.87 NTU	164.7 mV	26.20 ft	250.00 ml/min
9/19/2022 1:21 PM	20:00	5.76 pH	19.98 °C	1,826.7 µS/cm	0.53 mg/L	0.79 NTU	179.9 mV	26.20 ft	250.00 ml/min
9/19/2022 1:26 PM	25:00	5.76 pH	19.90 °C	1,838.2 µS/cm	0.41 mg/L	0.92 NTU	160.3 mV	26.20 ft	250.00 ml/min

Samples

Sample ID:	Description:
DGWC-4	

Low-Flow Test Report:

Test Date / Time: 9/14/2022 12:55:26 PM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: DGWC-5 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 23.23 ft** **Total Depth: 33.23 ft** **Initial Depth to Water: 11.4 ft**	**Pump Type: dedicated bladder** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Pump Intake From TOC: 28 ft** **Estimated Total Volume Pumped: 7500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.26 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 1000 %	+/- 0.3	
9/14/2022 12:55 PM	00:00	4.58 pH	23.52 °C	868.64 µS/cm	2.68 mg/L	1.87 NTU	246.9 mV	11.40 ft	250.00 ml/min
9/14/2022 1:00 PM	05:00	4.51 pH	19.88 °C	832.59 µS/cm	1.39 mg/L	1.71 NTU	413.9 mV	11.70 ft	250.00 ml/min
9/14/2022 1:05 PM	10:00	4.71 pH	19.64 °C	985.46 µS/cm	0.92 mg/L	2.40 NTU	559.4 mV	11.66 ft	250.00 ml/min
9/14/2022 1:10 PM	15:00	4.73 pH	19.51 °C	1,005.0 µS/cm	0.73 mg/L	2.71 NTU	509.2 mV	11.66 ft	250.00 ml/min
9/14/2022 1:15 PM	20:00	4.74 pH	19.60 °C	1,011.9 µS/cm	0.61 mg/L	1.77 NTU	568.5 mV	11.66 ft	250.00 ml/min
9/14/2022 1:20 PM	25:00	4.74 pH	19.64 °C	1,015.6 µS/cm	0.53 mg/L	2.13 NTU	569.6 mV	11.66 ft	250.00 ml/min
9/14/2022 1:25 PM	30:00	4.75 pH	19.64 °C	1,020.3 µS/cm	0.50 mg/L	2.03 NTU	505.7 mV	11.66 ft	250.00 ml/min

Samples

Sample ID:	Description:
DGWC-5	

Low-Flow Test Report:

Test Date / Time: 9/15/2022 12:53:56 PM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: DGWC-8 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 41.33 ft** **Total Depth: 51.33 ft** **Initial Depth to Water: 39.5 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Pump Intake From TOC: 46 ft** **Estimated Total Volume Pumped: 6250 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: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 1000 %	+/- 0.3	
9/15/2022 12:53 PM	00:00	5.24 pH	21.77 °C	367.49 µS/cm	2.57 mg/L	0.31 NTU	119.8 mV	39.50 ft	250.00 ml/min
9/15/2022 12:58 PM	05:00	5.22 pH	20.11 °C	364.42 µS/cm	1.56 mg/L	0.38 NTU	125.7 mV	39.65 ft	250.00 ml/min
9/15/2022 1:03 PM	10:00	5.19 pH	19.82 °C	363.40 µS/cm	0.85 mg/L	0.35 NTU	143.2 mV	39.65 ft	250.00 ml/min
9/15/2022 1:08 PM	15:00	5.19 pH	19.68 °C	365.73 µS/cm	0.64 mg/L	0.37 NTU	146.5 mV	39.65 ft	250.00 ml/min
9/15/2022 1:13 PM	20:00	5.19 pH	19.73 °C	365.29 µS/cm	0.58 mg/L	0.33 NTU	132.4 mV	39.65 ft	250.00 ml/min
9/15/2022 1:18 PM	25:00	5.20 pH	19.73 °C	367.23 µS/cm	0.54 mg/L	0.32 NTU	148.5 mV	39.65 ft	250.00 ml/min

Samples

Sample ID:	Description:
DGWC-8	

Low-Flow Test Report:

Test Date / Time: 9/19/2022 10:39:01 AM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: DGWC-9 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 23.73 ft** **Total Depth: 33.73 ft** **Initial Depth to Water: 28.53 ft**	**Pump Type: bladder** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Pump Intake From TOC: 32 ft** **Estimated Total Volume Pumped: 18826.666 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 2.72 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 1000 %	+/- 0.3	
9/19/2022 10:39 AM	00:00	3.92 pH	22.98 °C	657.17 µS/cm	7.19 mg/L	7.30 NTU	163.4 mV	28.53 ft	450.00 ml/min
9/19/2022 10:44 AM	05:00	3.89 pH	19.17 °C	657.86 µS/cm	4.64 mg/L	53.00 NTU	168.6 mV	29.15 ft	450.00 ml/min
9/19/2022 10:49 AM	10:00	3.90 pH	18.88 °C	655.40 µS/cm	4.00 mg/L	64.30 NTU	191.5 mV	29.85 ft	450.00 ml/min
9/19/2022 10:54 AM	15:00	3.89 pH	18.79 °C	650.72 µS/cm	4.39 mg/L	29.70 NTU	197.6 mV	30.65 ft	450.00 ml/min
9/19/2022 10:59 AM	20:00	3.91 pH	18.79 °C	649.22 µS/cm	4.53 mg/L	14.70 NTU	177.6 mV	31.25 ft	200.00 ml/min
9/19/2022 11:04 AM	25:00	3.92 pH	19.11 °C	657.42 µS/cm	3.72 mg/L	9.61 NTU	178.6 mV	31.16 ft	200.00 ml/min
9/19/2022 11:09 AM	30:00	3.94 pH	19.17 °C	657.58 µS/cm	3.32 mg/L	3.96 NTU	204.6 mV	31.10 ft	200.00 ml/min
9/19/2022 11:14 AM	35:00	3.95 pH	19.15 °C	657.29 µS/cm	3.08 mg/L	2.74 NTU	208.3 mV	31.10 ft	200.00 ml/min
9/19/2022 11:19 AM	40:00	3.96 pH	19.05 °C	657.30 µS/cm	2.96 mg/L	2.50 NTU	211.8 mV	31.10 ft	200.00 ml/min
9/19/2022 11:24 AM	45:00	3.96 pH	19.10 °C	656.18 µS/cm	2.77 mg/L	1.42 NTU	185.4 mV	31.10 ft	200.00 ml/min
9/19/2022 11:29 AM	50:00	3.96 pH	19.11 °C	656.30 µS/cm	2.61 mg/L	1.49 NTU	186.1 mV	31.10 ft	200.00 ml/min
9/19/2022 11:34 AM	55:00	3.97 pH	19.17 °C	657.90 µS/cm	2.45 mg/L	1.07 NTU	217.8 mV	31.10 ft	200.00 ml/min
9/19/2022 11:39 AM	01:00:00	3.98 pH	19.24 °C	654.68 µS/cm	2.34 mg/L	0.87 NTU	186.6 mV	31.25 ft	200.00 ml/min
9/19/2022 11:43 AM	01:04:08	3.98 pH	19.15 °C	656.62 µS/cm	2.24 mg/L	0.87 NTU	187.3 mV	31.25 ft	200.00 ml/min

9/19/2022 11:48 AM	01:09:08	3.98 pH	19.28 °C	656.62 µS/cm	2.15 mg/L	0.87 NTU	186.9 mV	31.25 ft	200.00 ml/min

Samples

Sample ID:	Description:
DGWC-9	

Low-Flow Test Report:

Test Date / Time: 9/15/2022 9:57:36 AM
Project: SCS Plant McDonough
Operator Name: Duane Fulton

Location Name: DGWC-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.8 ft** **Total Depth: 47.8 ft** **Initial Depth to Water: 31.98 ft**	**Pump Type: Alexis Peri Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 39 ft** **Estimated Total Volume Pumped: 3560 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 153 ml/min** **Final Draw Down: 0.28 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883533**

Test Notes:

Weather Conditions:
Clear, 76

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	
9/15/2022 9:57 AM	00:00	5.80 pH	23.66 °C	639.01 µS/cm	7.78 mg/L	0.59 NTU	173.6 mV	32.14 ft	100.00 ml/min
9/15/2022 10:02 AM	05:00	4.80 pH	20.44 °C	547.10 µS/cm	5.56 mg/L	0.86 NTU	158.1 mV	32.22 ft	153.00 ml/min
9/15/2022 10:07 AM	10:00	4.86 pH	19.81 °C	537.05 µS/cm	5.37 mg/L	0.89 NTU	195.9 mV	32.25 ft	153.00 ml/min
9/15/2022 10:12 AM	15:00	4.87 pH	19.73 °C	538.50 µS/cm	5.22 mg/L	0.76 NTU	135.9 mV	32.26 ft	153.00 ml/min
9/15/2022 10:17 AM	20:00	4.87 pH	19.73 °C	540.03 µS/cm	5.11 mg/L	0.76 NTU	131.1 mV	32.28 ft	153.00 ml/min
9/15/2022 10:22 AM	25:00	4.87 pH	19.72 °C	540.45 µS/cm	5.06 mg/L	0.66 NTU	129.9 mV	32.26 ft	153.00 ml/min

Samples

Sample ID:	Description:
DGWC-10	

Low-Flow Test Report:

Test Date / Time: 9/15/2022 1:12:02 PM
Project: SCS Plant McDonough
Operator Name: Duane Fulton

Location Name: DGWC-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 41.72 ft** **Total Depth: 51.72 ft** **Initial Depth to Water: 16.43 ft**	**Pump Type: QED Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 47 ft** **Estimated Total Volume Pumped: 3540 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 119 ml/min** **Final Draw Down: 0.43 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883533**

Test Notes:

Weather Conditions:
Clear, 82

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	
9/15/2022 1:12 PM	00:00	8.45 pH	29.29 °C	673.02 µS/cm	4.82 mg/L	1.53 NTU	47.3 mV	16.75 ft	116.00 ml/min
9/15/2022 1:17 PM	05:00	5.71 pH	22.20 °C	658.35 µS/cm	0.90 mg/L	1.23 NTU	75.0 mV	16.83 ft	116.00 ml/min
9/15/2022 1:22 PM	10:00	5.55 pH	21.75 °C	671.83 µS/cm	0.74 mg/L	1.52 NTU	113.0 mV	16.84 ft	119.00 ml/min
9/15/2022 1:27 PM	15:00	5.54 pH	21.73 °C	670.93 µS/cm	0.64 mg/L	1.03 NTU	117.9 mV	16.84 ft	119.00 ml/min
9/15/2022 1:32 PM	20:00	5.52 pH	21.37 °C	673.36 µS/cm	0.50 mg/L	0.51 NTU	116.4 mV	16.84 ft	119.00 ml/min
9/15/2022 1:37 PM	25:00	5.52 pH	21.39 °C	672.23 µS/cm	0.38 mg/L	1.01 NTU	81.6 mV	16.86 ft	119.00 ml/min
9/15/2022 1:42 PM	30:00	5.52 pH	21.52 °C	670.87 µS/cm	0.33 mg/L	1.05 NTU	74.3 mV	16.86 ft	119.00 ml/min

Samples

Sample ID:	Description:
DGWC-11	

Low-Flow Test Report:

Test Date / Time: 9/15/2022 2:27:38 PM
Project: SCS Plant McDonough
Operator Name: Duane Fulton

Location Name: DGWC-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.24 ft** **Total Depth: 28.24 ft** **Initial Depth to Water: 10.65 ft**	**Pump Type: QED Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 23.24 ft** **Estimated Total Volume Pumped: 11835 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 233 ml/min** **Final Draw Down: 0.43 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883533**

Test Notes:

Weather Conditions:
Cloudy, 83

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	
9/15/2022 2:27 PM	00:00	6.02 pH	27.76 °C	396.93 µS/cm	4.67 mg/L	900.00 NTU	63.4 mV	10.65 ft	300.00 ml/min
9/15/2022 2:32 PM	05:00	5.75 pH	20.02 °C	592.82 µS/cm	0.94 mg/L	167.00 NTU	60.2 mV	11.05 ft	223.00 ml/min
9/15/2022 2:37 PM	10:00	5.88 pH	19.86 °C	566.21 µS/cm	0.24 mg/L	56.20 NTU	28.9 mV	11.05 ft	223.00 ml/min
9/15/2022 2:42 PM	15:00	5.89 pH	19.81 °C	555.19 µS/cm	0.12 mg/L	38.10 NTU	26.3 mV	11.08 ft	223.00 ml/min
9/15/2022 2:47 PM	20:00	5.87 pH	19.85 °C	545.31 µS/cm	0.10 mg/L	22.70 NTU	25.6 mV	11.05 ft	233.00 ml/min
9/15/2022 2:52 PM	25:00	5.85 pH	19.68 °C	537.43 µS/cm	0.08 mg/L	13.40 NTU	29.5 mV	11.08 ft	233.00 ml/min
9/15/2022 2:57 PM	30:00	5.83 pH	19.73 °C	529.15 µS/cm	0.07 mg/L	9.65 NTU	29.6 mV	11.08 ft	233.00 ml/min
9/15/2022 3:02 PM	35:00	5.80 pH	19.65 °C	524.31 µS/cm	0.07 mg/L	7.70 NTU	36.2 mV	11.05 ft	233.00 ml/min
9/15/2022 3:07 PM	40:00	5.78 pH	19.77 °C	520.22 µS/cm	0.07 mg/L	5.38 NTU	39.1 mV	11.08 ft	233.00 ml/min
9/15/2022 3:12 PM	45:00	5.76 pH	19.72 °C	514.27 µS/cm	0.06 mg/L	4.15 NTU	41.7 mV	11.05 ft	233.00 ml/min
9/15/2022 3:17 PM	50:00	5.75 pH	19.50 °C	513.99 µS/cm	0.06 mg/L	3.18 NTU	37.9 mV	11.08 ft	233.00 ml/min

Samples

Sample ID:	Description:
DGWC-12	

Low-Flow Test Report:

Test Date / Time: 9/15/2022 9:15:44 AM
Project: Plant McDonough (34)
Operator Name: Cole Mayer

Location Name: DGWC-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 36.7 ft** **Total Depth: 46.7 ft** **Initial Depth to Water: 34.08 ft**	**Pump Type: dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 41 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.26 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

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	
9/15/2022 9:15 AM	00:00	7.00 pH	22.07 °C	407.66 µS/cm	7.43 mg/L	0.45 NTU	122.6 mV	34.27 ft	200.00 ml/min
9/15/2022 9:20 AM	05:00	5.63 pH	20.21 °C	396.18 µS/cm	4.48 mg/L	0.60 NTU	117.6 mV	34.28 ft	200.00 ml/min
9/15/2022 9:25 AM	10:00	5.59 pH	20.12 °C	395.08 µS/cm	4.11 mg/L	0.64 NTU	120.1 mV	34.32 ft	200.00 ml/min
9/15/2022 9:30 AM	15:00	5.57 pH	20.18 °C	394.80 µS/cm	3.97 mg/L	0.48 NTU	117.8 mV	34.32 ft	200.00 ml/min
9/15/2022 9:35 AM	20:00	5.56 pH	20.22 °C	393.96 µS/cm	3.92 mg/L	0.55 NTU	120.2 mV	34.34 ft	200.00 ml/min

Samples

Sample ID:	Description:
DGWC-13	

Low-Flow Test Report:

Test Date / Time: 9/13/2022 3:56:05 PM
Project: Plant McDonough
Operator Name: M. Mann

Location Name: DGWC-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 28 ft** **Total Depth: 37.95 ft** **Initial Depth to Water: 22.11 ft**	**Pump Type: dedicated bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 29.74 ft** **Estimated Total Volume Pumped: 3250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 190 ml/min** **Final Draw Down: 0.38 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/13/2022 3:56 PM	00:00	5.94 pH	23.25 °C	163.38 µS/cm	4.97 mg/L	2.99 NTU	81.9 mV	22.11 ft	270.00 ml/min
9/13/2022 4:01 PM	05:00	5.74 pH	20.70 °C	166.29 µS/cm	4.86 mg/L	0.77 NTU	88.2 mV	22.59 ft	190.00 ml/min
9/13/2022 4:06 PM	10:00	5.72 pH	21.35 °C	164.37 µS/cm	4.74 mg/L	0.35 NTU	93.3 mV	22.52 ft	190.00 ml/min
9/13/2022 4:11 PM	15:00	5.71 pH	21.00 °C	163.87 µS/cm	4.70 mg/L	0.61 NTU	99.2 mV	22.49 ft	190.00 ml/min

Samples

Sample ID:	Description:
DGWC-14	

Low-Flow Test Report:

Test Date / Time: 9/13/2022 3:22:17 PM
Project: SCS Plant McDonough
Operator Name: Duane Fulton

Location Name: DGWC-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 60.83 ft** **Total Depth: 70.83 ft** **Initial Depth to Water: 41 ft**	**Pump Type: Alexis Peri Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 65 ft** **Estimated Total Volume Pumped: 3500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.7 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883533**

Test Notes:

Weather Conditions:
Clear, 86

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	
9/13/2022 3:22 PM	00:00	7.98 pH	31.39 °C	415.54 µS/cm	4.49 mg/L	1.10 NTU	96.9 mV	41.42 ft	100.00 ml/min
9/13/2022 3:27 PM	05:00	5.88 pH	23.67 °C	429.46 µS/cm	0.89 mg/L	1.75 NTU	74.9 mV	41.70 ft	100.00 ml/min
9/13/2022 3:32 PM	10:00	5.83 pH	23.85 °C	432.49 µS/cm	0.90 mg/L	0.93 NTU	120.3 mV	41.70 ft	100.00 ml/min
9/13/2022 3:37 PM	15:00	5.82 pH	23.93 °C	432.65 µS/cm	0.87 mg/L	0.92 NTU	128.9 mV	41.70 ft	100.00 ml/min
9/13/2022 3:42 PM	20:00	5.81 pH	23.88 °C	432.00 µS/cm	0.68 mg/L	0.83 NTU	129.9 mV	41.70 ft	100.00 ml/min
9/13/2022 3:47 PM	25:00	5.82 pH	23.85 °C	431.62 µS/cm	0.59 mg/L	0.46 NTU	122.5 mV	41.70 ft	100.00 ml/min
9/13/2022 3:52 PM	30:00	5.82 pH	23.82 °C	432.42 µS/cm	0.52 mg/L	0.45 NTU	117.3 mV	41.70 ft	100.00 ml/min
9/13/2022 3:57 PM	35:00	5.82 pH	23.74 °C	432.71 µS/cm	0.49 mg/L	0.54 NTU	115.2 mV	41.70 ft	100.00 ml/min

Samples

Sample ID:	Description:
DGWC-15	

Low-Flow Test Report:

Test Date / Time: 9/14/2022 1:55:58 PM
Project: Plant McDonough (33)
Operator Name: Cole Mayer

Location Name: DGWC-17 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.95 ft** **Total Depth: 47.95 ft** **Initial Depth to Water: 36.76 ft**	**Pump Type: dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 43 ft** **Estimated Total Volume Pumped: 4500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.33 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

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	
9/14/2022 1:55 PM	00:00	5.88 pH	30.82 °C	0.57 µS/cm	6.38 mg/L	1.31 NTU	103.4 mV	36.99 ft	100.00 ml/min
9/14/2022 2:00 PM	05:00	5.17 pH	21.25 °C	0.62 µS/cm	2.40 mg/L	1.17 NTU	102.4 mV	37.02 ft	100.00 ml/min
9/14/2022 2:05 PM	10:00	5.12 pH	20.76 °C	0.63 µS/cm	1.03 mg/L	2.40 NTU	102.7 mV	37.02 ft	100.00 ml/min
9/14/2022 2:10 PM	15:00	5.11 pH	20.60 °C	0.64 µS/cm	0.76 mg/L	0.99 NTU	102.4 mV	37.03 ft	100.00 ml/min
9/14/2022 2:15 PM	20:00	5.10 pH	20.89 °C	0.64 µS/cm	0.75 mg/L	0.77 NTU	102.4 mV	37.03 ft	100.00 ml/min
9/14/2022 2:20 PM	25:00	5.09 pH	20.76 °C	0.63 µS/cm	0.73 mg/L	0.66 NTU	103.0 mV	37.06 ft	100.00 ml/min
9/14/2022 2:25 PM	30:00	5.09 pH	20.76 °C	0.63 µS/cm	0.55 mg/L	0.73 NTU	103.4 mV	37.10 ft	100.00 ml/min
9/14/2022 2:30 PM	35:00	5.09 pH	20.84 °C	0.63 µS/cm	0.64 mg/L	0.66 NTU	102.2 mV	37.08 ft	100.00 ml/min
9/14/2022 2:35 PM	40:00	5.08 pH	20.85 °C	0.63 µS/cm	0.53 mg/L	0.59 NTU	102.3 mV	37.06 ft	100.00 ml/min
9/14/2022 2:40 PM	45:00	5.08 pH	20.89 °C	0.63 µS/cm	0.51 mg/L	0.53 NTU	102.4 mV	37.09 ft	100.00 ml/min

Samples

Sample ID:	Description:
DGWC-17	
DUP-5	

Low-Flow Test Report:

Test Date / Time: 9/14/2022 11:25:36 AM
Project: Plant McDonough (32)
Operator Name: Cole Mayer

Location Name: DGWC-19 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.23 ft** **Total Depth: 43.23 ft** **Initial Depth to Water: 26.33 ft**	**Pump Type: dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 38.23 ft** **Estimated Total Volume Pumped: 3500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.24 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

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	
9/14/2022 11:25 AM	00:00	5.71 pH	32.26 °C	0.76 µS/cm	5.95 mg/L	1.38 NTU	103.7 mV	26.50 ft	100.00 ml/min
9/14/2022 11:30 AM	05:00	4.68 pH	21.49 °C	0.79 µS/cm	0.97 mg/L	6.51 NTU	107.4 mV	26.53 ft	100.00 ml/min
9/14/2022 11:35 AM	10:00	4.74 pH	21.16 °C	0.81 µS/cm	0.66 mg/L	2.77 NTU	110.9 mV	26.60 ft	100.00 ml/min
9/14/2022 11:40 AM	15:00	4.77 pH	20.97 °C	0.81 µS/cm	0.40 mg/L	2.84 NTU	112.5 mV	26.56 ft	100.00 ml/min
9/14/2022 11:45 AM	20:00	4.79 pH	20.90 °C	0.81 µS/cm	0.26 mg/L	1.94 NTU	113.5 mV	26.56 ft	100.00 ml/min
9/14/2022 11:50 AM	25:00	4.80 pH	21.15 °C	0.82 µS/cm	0.21 mg/L	1.66 NTU	115.6 mV	26.57 ft	100.00 ml/min
9/14/2022 11:55 AM	30:00	4.81 pH	21.06 °C	0.82 µS/cm	0.19 mg/L	1.35 NTU	117.0 mV	26.59 ft	100.00 ml/min
9/14/2022 12:00 PM	35:00	4.81 pH	20.97 °C	0.82 µS/cm	0.16 mg/L	1.47 NTU	120.6 mV	26.57 ft	100.00 ml/min

Samples

Sample ID:	Description:
DGWC-19	Extra rad

Low-Flow Test Report:

Test Date / Time: 9/15/2022 11:20:51 AM
Project: Plant McDonough (35)
Operator Name: Cole Mayer

Location Name: DGWC-20 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.4 ft** **Total Depth: 43.4 ft** **Initial Depth to Water: 24.38 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 38 ft** **Estimated Total Volume Pumped: 3500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.94 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

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	
9/15/2022 11:20 AM	00:00	4.84 pH	29.16 °C	834.96 µS/cm	3.31 mg/L	0.67 NTU	124.9 mV	24.76 ft	100.00 ml/min
9/15/2022 11:25 AM	05:00	4.62 pH	22.68 °C	884.89 µS/cm	0.20 mg/L	1.42 NTU	124.4 mV	25.05 ft	150.00 ml/min
9/15/2022 11:30 AM	10:00	4.63 pH	21.80 °C	893.29 µS/cm	0.12 mg/L	1.05 NTU	124.4 mV	25.20 ft	150.00 ml/min
9/15/2022 11:35 AM	15:00	4.63 pH	21.58 °C	898.45 µS/cm	0.12 mg/L	1.19 NTU	123.2 mV	25.28 ft	150.00 ml/min
9/15/2022 11:40 AM	20:00	4.62 pH	21.78 °C	898.84 µS/cm	0.08 mg/L	0.89 NTU	124.3 mV	25.32 ft	150.00 ml/min
9/15/2022 11:45 AM	25:00	4.58 pH	21.69 °C	913.17 µS/cm	0.08 mg/L	1.00 NTU	126.0 mV	25.32 ft	150.00 ml/min

Samples

Sample ID:	Description:
DGWC-20	
EB-5	

Low-Flow Test Report:

Test Date / Time: 9/15/2022 3:50:47 PM
Project: Plant McDonough (37)
Operator Name: Cole Mayer

Location Name: DGWC-21 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 62.55 ft** **Total Depth: 72.55 ft** **Initial Depth to Water: 18.59 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 67 ft** **Estimated Total Volume Pumped: 3750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.3 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

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	
9/15/2022 3:50 PM	00:00	6.20 pH	31.13 °C	486.59 µS/cm	5.36 mg/L	1.79 NTU	119.6 mV	18.79 ft	150.00 ml/min
9/15/2022 3:55 PM	05:00	5.72 pH	22.36 °C	654.01 µS/cm	0.33 mg/L	0.89 NTU	123.9 mV	18.84 ft	200.00 ml/min
9/15/2022 4:00 PM	10:00	5.70 pH	22.36 °C	657.22 µS/cm	0.15 mg/L	1.13 NTU	124.5 mV	18.87 ft	200.00 ml/min
9/15/2022 4:05 PM	15:00	5.70 pH	22.44 °C	652.17 µS/cm	0.10 mg/L	1.35 NTU	124.2 mV	18.89 ft	200.00 ml/min
9/15/2022 4:10 PM	20:00	5.69 pH	22.46 °C	651.46 µS/cm	0.08 mg/L	0.84 NTU	124.8 mV	18.89 ft	200.00 ml/min

Samples

Sample ID:	Description:
DGWC-21	

Low-Flow Test Report:

Test Date / Time: 9/16/2022 11:41:25 AM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: DGWC-22 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53.45 ft** **Total Depth: 63.45 ft** **Initial Depth to Water: 22.8 ft**	**Pump Type: bladder** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Pump Intake From TOC: 58 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: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 1000 %	+/- 0.3	
9/16/2022 11:41 AM	00:00	5.94 pH	25.65 °C	342.32 µS/cm	6.69 mg/L	2.06 NTU	111.1 mV	22.80 ft	250.00 ml/min
9/16/2022 11:46 AM	05:00	5.68 pH	21.03 °C	652.14 µS/cm	0.75 mg/L	1.09 NTU	79.9 mV	22.95 ft	250.00 ml/min
9/16/2022 11:51 AM	10:00	5.63 pH	21.06 °C	667.71 µS/cm	0.45 mg/L	1.48 NTU	80.7 mV	22.95 ft	250.00 ml/min
9/16/2022 11:56 AM	15:00	5.62 pH	20.92 °C	666.47 µS/cm	0.37 mg/L	0.65 NTU	80.7 mV	22.95 ft	250.00 ml/min
9/16/2022 12:01 PM	20:00	5.62 pH	21.29 °C	670.53 µS/cm	0.32 mg/L	0.71 NTU	83.5 mV	22.95 ft	250.00 ml/min

Samples

Sample ID:	Description:
DGWC-22	

Low-Flow Test Report:

Test Date / Time: 9/20/2022 9:47:03 AM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: DGWC-23 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53.26 ft** **Total Depth: 63.26 ft** **Initial Depth to Water: 23.3 ft**	**Pump Type: dedicated bladder** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Pump Intake From TOC: 58 ft** **Estimated Total Volume Pumped: 13750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 2.92 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 1000 %	+/- 0.3	
9/20/2022 9:47 AM	00:00	6.58 pH	23.26 °C	649.47 µS/cm	6.41 mg/L	0.92 NTU	117.5 mV	23.30 ft	250.00 ml/min
9/20/2022 9:52 AM	05:00	5.93 pH	19.44 °C	740.01 µS/cm	0.96 mg/L	1.90 NTU	117.7 mV	23.70 ft	250.00 ml/min
9/20/2022 9:57 AM	10:00	5.98 pH	19.24 °C	721.98 µS/cm	0.90 mg/L	1.78 NTU	132.8 mV	24.20 ft	250.00 ml/min
9/20/2022 10:02 AM	15:00	6.08 pH	19.15 °C	719.23 µS/cm	1.85 mg/L	1.74 NTU	136.1 mV	25.55 ft	250.00 ml/min
9/20/2022 10:07 AM	20:00	6.08 pH	19.12 °C	721.09 µS/cm	1.79 mg/L	1.46 NTU	134.5 mV	26.00 ft	250.00 ml/min
9/20/2022 10:12 AM	25:00	6.06 pH	19.19 °C	721.35 µS/cm	1.54 mg/L	0.98 NTU	125.9 mV	26.11 ft	250.00 ml/min
9/20/2022 10:17 AM	30:00	6.04 pH	19.15 °C	726.19 µS/cm	1.31 mg/L	0.73 NTU	129.3 mV	26.22 ft	250.00 ml/min
9/20/2022 10:22 AM	35:00	6.02 pH	19.15 °C	725.79 µS/cm	1.11 mg/L	0.76 NTU	127.4 mV	26.22 ft	250.00 ml/min
9/20/2022 10:27 AM	40:00	6.02 pH	19.28 °C	726.58 µS/cm	0.96 mg/L	0.83 NTU	125.6 mV	26.22 ft	250.00 ml/min
9/20/2022 10:32 AM	45:00	6.01 pH	19.32 °C	727.95 µS/cm	0.84 mg/L	0.84 NTU	124.2 mV	26.22 ft	250.00 ml/min
9/20/2022 10:37 AM	50:00	6.01 pH	19.28 °C	725.27 µS/cm	0.74 mg/L	1.08 NTU	118.8 mV	26.22 ft	250.00 ml/min
9/20/2022 10:42 AM	55:00	6.00 pH	19.32 °C	728.04 µS/cm	0.64 mg/L	0.93 NTU	122.1 mV	26.22 ft	250.00 ml/min

Samples

Sample ID:	Description:
DGWC-23	

Low-Flow Test Report:

Test Date / Time: 9/13/2022 9:35:27 AM
Project: Plant McDonough (27)
Operator Name: Cole Mayer

Location Name: DGWC-42 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.49 ft** **Total Depth: 52.49 ft** **Initial Depth to Water: 30.29 ft**	**Pump Type: dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 48 ft** **Estimated Total Volume Pumped: 3750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.92 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

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	
9/13/2022 9:35 AM	00:00	6.48 pH	20.40 °C	0.81 µS/cm	8.41 mg/L	0.99 NTU	148.8 mV	30.60 ft	150.00 ml/min
9/13/2022 9:40 AM	05:00	4.94 pH	19.78 °C	0.76 µS/cm	1.57 mg/L	5.12 NTU	124.9 mV	31.04 ft	150.00 ml/min
9/13/2022 9:45 AM	10:00	5.03 pH	19.78 °C	0.77 µS/cm	1.61 mg/L	3.59 NTU	124.9 mV	31.14 ft	150.00 ml/min
9/13/2022 9:50 AM	15:00	5.05 pH	19.91 °C	0.77 µS/cm	1.57 mg/L	1.24 NTU	123.8 mV	31.18 ft	150.00 ml/min
9/13/2022 9:55 AM	20:00	5.04 pH	19.92 °C	0.77 µS/cm	1.27 mg/L	0.94 NTU	121.9 mV	31.21 ft	150.00 ml/min
9/13/2022 10:00 AM	25:00	5.04 pH	20.10 °C	0.77 µS/cm	1.19 mg/L	0.74 NTU	120.7 mV	31.21 ft	150.00 ml/min

Samples

Sample ID:	Description:
DGWC-42	
FB-4	

Low-Flow Test Report:

Test Date / Time: 9/13/2022 3:40:48 PM
Project: Plant McDonough (30)
Operator Name: Cole Mayer

Location Name: DGWC-47 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 21.93 ft** **Total Depth: 31.93 ft** **Initial Depth to Water: 17.69 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 26 ft** **Estimated Total Volume Pumped: 3000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 1.89 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

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	
9/13/2022 3:40 PM	00:00	4.57 pH	29.26 °C	0.35 µS/cm	0.99 mg/L	0.97 NTU	80.1 mV	18.14 ft	100.00 ml/min
9/13/2022 3:45 PM	05:00	4.24 pH	25.87 °C	0.36 µS/cm	0.27 mg/L	0.83 NTU	79.8 mV	18.48 ft	100.00 ml/min
9/13/2022 3:50 PM	10:00	4.19 pH	25.24 °C	0.36 µS/cm	0.17 mg/L	0.59 NTU	80.2 mV	18.76 ft	100.00 ml/min
9/13/2022 3:55 PM	15:00	4.14 pH	24.57 °C	0.36 µS/cm	0.09 mg/L	1.12 NTU	81.5 mV	19.17 ft	150.00 ml/min
9/13/2022 4:00 PM	20:00	4.14 pH	24.37 °C	0.36 µS/cm	0.07 mg/L	0.67 NTU	82.3 mV	19.41 ft	150.00 ml/min
9/13/2022 4:05 PM	25:00	4.15 pH	24.19 °C	0.36 µS/cm	0.08 mg/L	0.77 NTU	83.4 mV	19.58 ft	150.00 ml/min

Samples

Sample ID:	Description:
DGWC-47	

Low-Flow Test Report:

Test Date / Time: 9/13/2022 11:45:33 AM
Project: Plant McDonough (28)
Operator Name: Cole Mayer

Location Name: DGWC-48 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 23.49 ft** **Total Depth: 33.49 ft** **Initial Depth to Water: 14.99 ft**	**Pump Type: dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 28 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 1.29 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

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	
9/13/2022 11:45 AM	00:00	4.12 pH	26.93 °C	0.64 µS/cm	4.28 mg/L	1.32 NTU	126.5 mV	15.43 ft	250.00 ml/min
9/13/2022 11:50 AM	05:00	4.22 pH	20.76 °C	0.68 µS/cm	0.97 mg/L	4.01 NTU	127.5 mV	15.94 ft	250.00 ml/min
9/13/2022 11:55 AM	10:00	4.21 pH	20.62 °C	0.67 µS/cm	0.66 mg/L	3.99 NTU	128.1 mV	16.20 ft	250.00 ml/min
9/13/2022 12:00 PM	15:00	4.24 pH	20.51 °C	0.67 µS/cm	0.40 mg/L	2.70 NTU	128.7 mV	16.23 ft	250.00 ml/min
9/13/2022 12:05 PM	20:00	4.25 pH	20.54 °C	0.67 µS/cm	0.27 mg/L	1.10 NTU	129.6 mV	16.28 ft	250.00 ml/min

Samples

Sample ID:	Description:
DGWC-48	
EB-3	

Low-Flow Test Report:

Test Date / Time: 9/16/2022 9:23:08 AM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: B-56 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.9 ft** **Total Depth: 47.9 ft** **Initial Depth to Water: 30.4 ft**	**Pump Type: bladder** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 12500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.85 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 1000 %	+/- 0.3	
9/16/2022 9:23 AM	00:00	4.54 pH	18.86 °C	514.07 µS/cm	1.23 mg/L	6.59 NTU	127.2 mV	30.40 ft	250.00 ml/min
9/16/2022 9:28 AM	05:00	4.50 pH	18.52 °C	513.59 µS/cm	0.44 mg/L	35.50 NTU	126.2 mV	31.15 ft	250.00 ml/min
9/16/2022 9:33 AM	10:00	4.50 pH	18.35 °C	520.32 µS/cm	0.26 mg/L	24.30 NTU	144.0 mV	31.25 ft	250.00 ml/min
9/16/2022 9:38 AM	15:00	4.50 pH	18.30 °C	521.65 µS/cm	0.21 mg/L	18.90 NTU	145.5 mV	31.25 ft	250.00 ml/min
9/16/2022 9:43 AM	20:00	4.52 pH	18.30 °C	522.40 µS/cm	0.19 mg/L	13.00 NTU	144.9 mV	31.25 ft	250.00 ml/min
9/16/2022 9:48 AM	25:00	4.52 pH	18.30 °C	522.86 µS/cm	0.17 mg/L	11.70 NTU	129.1 mV	31.25 ft	250.00 ml/min
9/16/2022 9:53 AM	30:00	4.52 pH	18.35 °C	525.08 µS/cm	0.15 mg/L	8.35 NTU	128.8 mV	31.25 ft	250.00 ml/min
9/16/2022 9:58 AM	35:00	4.53 pH	18.38 °C	529.85 µS/cm	0.15 mg/L	7.61 NTU	143.4 mV	31.25 ft	250.00 ml/min
9/16/2022 10:03 AM	40:00	4.54 pH	18.35 °C	531.67 µS/cm	0.13 mg/L	5.52 NTU	128.1 mV	31.25 ft	250.00 ml/min
9/16/2022 10:08 AM	45:00	4.55 pH	18.38 °C	534.50 µS/cm	0.13 mg/L	5.60 NTU	141.2 mV	31.25 ft	250.00 ml/min
9/16/2022 10:13 AM	50:00	4.56 pH	18.41 °C	532.66 µS/cm	0.12 mg/L	4.57 NTU	127.2 mV	31.25 ft	250.00 ml/min

Samples

Sample ID:	Description:

B-56	

Low-Flow Test Report:

Test Date / Time: 9/14/2022 12:03:32 PM
Project: Plant McDonough
Operator Name: M. Mann

Location Name: B-63 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 36 ft** **Total Depth: 46.15 ft** **Initial Depth to Water: 30.46 ft**	**Pump Type: bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 41 ft** **Estimated Total Volume Pumped: 11681.667 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.92 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/14/2022 12:03 PM	00:00	5.80 pH	32.29 °C	283.55 µS/cm	2.10 mg/L	111.00 NTU	42.7 mV	30.46 ft	350.00 ml/min
9/14/2022 12:08 PM	04:50	5.33 pH	21.91 °C	334.46 µS/cm	0.20 mg/L	72.90 NTU	74.0 mV	31.35 ft	300.00 ml/min
9/14/2022 12:13 PM	09:50	5.34 pH	21.64 °C	339.74 µS/cm	0.31 mg/L	33.40 NTU	78.6 mV	31.29 ft	200.00 ml/min
9/14/2022 12:18 PM	14:50	5.33 pH	21.75 °C	334.56 µS/cm	0.49 mg/L	22.50 NTU	81.0 mV	31.29 ft	200.00 ml/min
9/14/2022 12:23 PM	19:50	5.32 pH	21.72 °C	333.13 µS/cm	0.46 mg/L	17.00 NTU	84.3 mV	31.27 ft	200.00 ml/min
9/14/2022 12:35 PM	32:17	5.34 pH	21.68 °C	331.12 µS/cm	0.43 mg/L	12.30 NTU	86.7 mV	31.32 ft	200.00 ml/min
9/14/2022 12:40 PM	37:17	5.35 pH	21.74 °C	333.36 µS/cm	0.43 mg/L	7.47 NTU	86.9 mV	31.34 ft	200.00 ml/min
9/14/2022 12:45 PM	42:17	5.33 pH	21.69 °C	331.22 µS/cm	0.44 mg/L	6.90 NTU	86.8 mV	31.37 ft	200.00 ml/min
9/14/2022 12:50 PM	47:17	5.33 pH	21.73 °C	334.89 µS/cm	0.41 mg/L	5.70 NTU	86.9 mV	31.38 ft	200.00 ml/min
9/14/2022 12:55 PM	52:17	5.31 pH	21.62 °C	331.42 µS/cm	0.39 mg/L	4.81 NTU	86.9 mV	31.38 ft	200.00 ml/min

Samples

Sample ID:	Description:

B-63	
FB-5	

Low-Flow Test Report:

Test Date / Time: 9/16/2022 9:03:32 AM
Project: SCS Plant McDonough
Operator Name: Duane Fulton

Location Name: B-66 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 47.99 ft** **Total Depth: 57.99 ft** **Initial Depth to Water: 21.74 ft**	**Pump Type: Alexis Peri Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 52 ft** **Estimated Total Volume Pumped: 4060 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 55 ml/min** **Final Draw Down: 1.76 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883533**

Test Notes:

Weather Conditions:
Clear, 76

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	
9/16/2022 9:03 AM	00:00	6.65 pH	18.88 °C	781.83 µS/cm	4.12 mg/L	4.26 NTU	1.5 mV	22.01 ft	100.00 ml/min
9/16/2022 9:08 AM	05:00	6.58 pH	18.84 °C	795.39 µS/cm	0.75 mg/L	1.83 NTU	-19.5 mV	22.53 ft	85.00 ml/min
9/16/2022 9:13 AM	10:00	6.59 pH	18.94 °C	796.84 µS/cm	0.41 mg/L	1.14 NTU	-39.3 mV	22.80 ft	66.00 ml/min
9/16/2022 9:18 AM	15:00	6.59 pH	19.03 °C	796.70 µS/cm	0.32 mg/L	1.55 NTU	-24.4 mV	23.01 ft	66.00 ml/min
9/16/2022 9:23 AM	20:00	6.59 pH	19.16 °C	796.77 µS/cm	0.30 mg/L	1.79 NTU	-24.3 mV	23.13 ft	55.00 ml/min
9/16/2022 9:28 AM	25:00	6.59 pH	19.30 °C	794.25 µS/cm	0.29 mg/L	1.83 NTU	-23.8 mV	23.22 ft	55.00 ml/min
9/16/2022 9:33 AM	30:00	6.58 pH	19.37 °C	791.15 µS/cm	0.27 mg/L	1.78 NTU	-23.0 mV	23.30 ft	55.00 ml/min
9/16/2022 9:38 AM	35:00	6.57 pH	19.44 °C	788.89 µS/cm	0.29 mg/L	0.86 NTU	-21.2 mV	23.34 ft	55.00 ml/min
9/16/2022 9:43 AM	40:00	6.58 pH	19.52 °C	787.14 µS/cm	0.34 mg/L	1.87 NTU	-35.6 mV	23.40 ft	55.00 ml/min
9/16/2022 9:48 AM	45:00	6.58 pH	19.61 °C	787.64 µS/cm	0.42 mg/L	1.17 NTU	-18.7 mV	23.41 ft	55.00 ml/min
9/16/2022 9:53 AM	50:00	6.59 pH	19.70 °C	786.18 µS/cm	0.45 mg/L	1.05 NTU	-17.8 mV	23.45 ft	55.00 ml/min
9/16/2022 9:58 AM	55:00	6.59 pH	19.87 °C	788.28 µS/cm	0.49 mg/L	1.07 NTU	-32.1 mV	23.46 ft	55.00 ml/min
9/16/2022 10:03 AM	01:00:00	6.60 pH	19.95 °C	788.78 µS/cm	0.51 mg/L	1.05 NTU	-17.2 mV	23.48 ft	55.00 ml/min

9/16/2022 10:08 AM	01:05:00	6.60 pH	19.97 °C	788.53 µS/cm	0.52 mg/L	1.02 NTU	-30.5 mV	23.50 ft	55.00 ml/min

Samples

Sample ID:	Description:
B-66	

Low-Flow Test Report:

Test Date / Time: 9/13/2022 1:26:24 PM
Project: Plant McDonough
Operator Name: M. Mann

Location Name: B-77 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33 ft** **Total Depth: 43.46 ft** **Initial Depth to Water: 30.7 ft**	**Pump Type: bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 38 ft** **Estimated Total Volume Pumped: 12875 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 2.22 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/13/2022 1:26 PM	00:00	6.12 pH	31.72 °C	301.01 µS/cm	2.47 mg/L	40.10 NTU	58.8 mV	30.70 ft	275.00 ml/min
9/13/2022 1:31 PM	05:00	6.36 pH	22.45 °C	323.88 µS/cm	0.18 mg/L	39.00 NTU	11.8 mV	31.75 ft	275.00 ml/min
9/13/2022 1:36 PM	10:00	6.39 pH	22.08 °C	322.42 µS/cm	0.13 mg/L	43.50 NTU	-5.4 mV	32.07 ft	275.00 ml/min
9/13/2022 1:41 PM	15:00	6.38 pH	22.82 °C	310.58 µS/cm	0.16 mg/L	31.40 NTU	-12.7 mV	31.99 ft	275.00 ml/min
9/13/2022 1:46 PM	20:00	6.35 pH	22.57 °C	292.32 µS/cm	0.09 mg/L	21.90 NTU	-13.2 mV	32.15 ft	275.00 ml/min
9/13/2022 1:51 PM	25:00	6.34 pH	21.87 °C	292.27 µS/cm	0.09 mg/L	28.30 NTU	-11.0 mV	32.39 ft	200.00 ml/min
9/13/2022 1:56 PM	30:00	6.32 pH	22.25 °C	289.74 µS/cm	0.08 mg/L	16.40 NTU	-12.6 mV	32.49 ft	200.00 ml/min
9/13/2022 2:01 PM	35:00	6.33 pH	22.29 °C	290.32 µS/cm	0.08 mg/L	12.60 NTU	-11.8 mV	32.61 ft	200.00 ml/min
9/13/2022 2:06 PM	40:00	6.33 pH	22.30 °C	289.81 µS/cm	0.07 mg/L	9.20 NTU	-13.5 mV	32.69 ft	200.00 ml/min
9/13/2022 2:11 PM	45:00	6.34 pH	22.30 °C	290.78 µS/cm	0.06 mg/L	7.17 NTU	-14.2 mV	32.78 ft	200.00 ml/min
9/13/2022 2:16 PM	50:00	6.33 pH	22.31 °C	292.30 µS/cm	0.06 mg/L	5.66 NTU	-14.9 mV	32.86 ft	200.00 ml/min
9/13/2022 2:21 PM	55:00	6.34 pH	22.29 °C	291.54 µS/cm	0.05 mg/L	4.94 NTU	-15.2 mV	32.92 ft	200.00 ml/min

Samples

Sample ID:	Description:
B-77	Extra Rad

Low-Flow Test Report:

Test Date / Time: 9/16/2022 11:32:15 AM
Project: SCS Plant McDonough
Operator Name: Duane Fulton

Location Name: B-82 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.65 ft** **Total Depth: 47.65 ft** **Initial Depth to Water: 18.96 ft**	**Pump Type: Alexis Peri Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 3125 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 75 ml/min** **Final Draw Down: 0.66 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883533**

Test Notes:

Weather Conditions:
Clear, 77

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	
9/16/2022 11:32 AM	00:00	5.74 pH	28.31 °C	776.27 µS/cm	3.95 mg/L	3.77 NTU	121.6 mV	19.17 ft	100.00 ml/min
9/16/2022 11:37 AM	05:00	5.08 pH	22.88 °C	830.02 µS/cm	0.75 mg/L	3.65 NTU	233.7 mV	19.49 ft	75.00 ml/min
9/16/2022 11:42 AM	10:00	5.05 pH	22.48 °C	829.67 µS/cm	0.59 mg/L	4.14 NTU	165.1 mV	19.55 ft	75.00 ml/min
9/16/2022 11:47 AM	15:00	5.04 pH	22.29 °C	834.81 µS/cm	0.54 mg/L	2.45 NTU	209.2 mV	19.60 ft	75.00 ml/min
9/16/2022 11:52 AM	20:00	5.04 pH	22.15 °C	831.99 µS/cm	0.50 mg/L	2.27 NTU	150.4 mV	19.62 ft	75.00 ml/min
9/16/2022 11:57 AM	25:00	5.04 pH	22.23 °C	833.79 µS/cm	0.48 mg/L	2.15 NTU	188.8 mV	19.62 ft	75.00 ml/min
9/16/2022 12:02 PM	30:00	5.03 pH	22.55 °C	831.19 µS/cm	0.47 mg/L	1.82 NTU	141.3 mV	19.62 ft	75.00 ml/min
9/16/2022 12:07 PM	35:00	5.02 pH	22.54 °C	826.34 µS/cm	0.46 mg/L	2.01 NTU	132.3 mV	19.62 ft	75.00 ml/min
9/16/2022 12:12 PM	40:00	5.02 pH	22.36 °C	829.57 µS/cm	0.43 mg/L	2.23 NTU	169.7 mV	19.62 ft	75.00 ml/min

Samples

Sample ID:	Description:
B-82	

Low-Flow Test Report:

Test Date / Time: 9/13/2022 11:23:18 AM
Project: Plant McDonough
Operator Name: M. Mann

Location Name: B-83 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 39 ft** **Total Depth: 48.9 ft** **Initial Depth to Water: 31.18 ft**	**Pump Type: bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 44 ft** **Estimated Total Volume Pumped: 3400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/13/2022 11:23 AM	00:00	5.77 pH	28.97 °C	318.88 µS/cm	4.58 mg/L	3.77 NTU	41.8 mV	31.18 ft	80.00 ml/min
9/13/2022 11:24 AM	01:17	5.68 pH	26.65 °C	338.66 µS/cm	2.33 mg/L	3.77 NTU	44.8 mV	31.18 ft	80.00 ml/min
9/13/2022 11:28 AM	05:00	5.64 pH	25.14 °C	350.64 µS/cm	1.11 mg/L	3.77 NTU	47.8 mV	31.18 ft	80.00 ml/min
9/13/2022 11:33 AM	10:00	5.61 pH	24.67 °C	355.42 µS/cm	0.66 mg/L	2.10 NTU	49.5 mV	31.19 ft	210.00 ml/min
9/13/2022 11:38 AM	15:00	5.60 pH	22.20 °C	354.41 µS/cm	0.24 mg/L	1.12 NTU	53.9 mV	31.20 ft	210.00 ml/min
9/13/2022 11:43 AM	20:00	5.60 pH	22.08 °C	354.40 µS/cm	0.17 mg/L	0.99 NTU	54.2 mV	31.23 ft	210.00 ml/min

Samples

Sample ID:	Description:
B-83	
DUP-4	

Low-Flow Test Report:

Test Date / Time: 9/16/2022 10:29:35 AM
Project: Plant McDonough
Operator Name: M. Mann

Location Name: B-88 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 65 ft** **Total Depth: 75.06 ft** **Initial Depth to Water: 37.8 ft**	**Pump Type: bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 70 ft** **Estimated Total Volume Pumped: 3000 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**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/16/2022 10:29 AM	00:00	6.17 pH	22.94 °C	815.44 µS/cm	4.12 mg/L	4.10 NTU	107.5 mV	37.80 ft	200.00 ml/min
9/16/2022 10:34 AM	05:00	5.49 pH	18.96 °C	967.19 µS/cm	0.45 mg/L	3.71 NTU	115.6 mV	37.88 ft	200.00 ml/min
9/16/2022 10:39 AM	10:00	5.46 pH	18.72 °C	977.78 µS/cm	0.47 mg/L	2.78 NTU	120.3 mV	37.91 ft	200.00 ml/min
9/16/2022 10:44 AM	15:00	5.47 pH	18.77 °C	979.56 µS/cm	0.52 mg/L	2.40 NTU	121.4 mV	37.90 ft	200.00 ml/min

Samples

Sample ID:	Description:
B-88	

Low-Flow Test Report:

Test Date / Time: 9/12/2022 11:12:25 AM
Project: SCS Plant McDonough
Operator Name: Duane Fulton

Location Name: B-92 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.6 ft** **Total Depth: 24.6 ft** **Initial Depth to Water: 5.87 ft**	**Pump Type: Alexis Peri Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 20 ft** **Estimated Total Volume Pumped: 4590 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 153 ml/min** **Final Draw Down: 0.08 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883533**

Test Notes:
Conductivity lower than previous sampling event.

Weather Conditions:
Cloudy, 79

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	
9/12/2022 11:12 AM	00:00	4.66 pH	27.05 °C	789.38 µS/cm	4.40 mg/L	8.11 NTU	194.5 mV	5.94 ft	153.00 ml/min
9/12/2022 11:17 AM	05:00	4.56 pH	21.76 °C	849.95 µS/cm	0.30 mg/L	2.56 NTU	460.6 mV	5.95 ft	153.00 ml/min
9/12/2022 11:22 AM	10:00	4.56 pH	21.60 °C	855.41 µS/cm	0.18 mg/L	3.14 NTU	374.6 mV	5.95 ft	153.00 ml/min
9/12/2022 11:27 AM	15:00	4.56 pH	21.49 °C	855.12 µS/cm	0.15 mg/L	3.01 NTU	389.9 mV	5.95 ft	153.00 ml/min
9/12/2022 11:32 AM	20:00	4.56 pH	21.42 °C	855.09 µS/cm	0.13 mg/L	2.19 NTU	398.3 mV	5.95 ft	153.00 ml/min
9/12/2022 11:37 AM	25:00	4.55 pH	21.52 °C	853.97 µS/cm	0.12 mg/L	1.47 NTU	536.4 mV	5.95 ft	153.00 ml/min
9/12/2022 11:42 AM	30:00	4.56 pH	21.11 °C	854.16 µS/cm	0.10 mg/L	1.11 NTU	410.4 mV	5.95 ft	153.00 ml/min

Samples

Sample ID:	Description:
B-92	

Low-Flow Test Report:

Test Date / Time: 9/12/2022 12:37:25 PM
Project: SCS Plant McDonough
Operator Name: Duane Fulton

Location Name: B-93 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 19.3 ft** **Total Depth: 29.3 ft** **Initial Depth to Water: 8.97 ft**	**Pump Type: Alexis Peri Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 24 ft** **Estimated Total Volume Pumped: 3435 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 153 ml/min** **Final Draw Down: 0.33 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883533**

Test Notes:
Conductivity lower than before.

Weather Conditions:
Cloudy, 79

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	
9/12/2022 12:37 PM	00:00	4.92 pH	28.82 °C	951.20 µS/cm	2.41 mg/L	1.11 NTU	379.6 mV	9.13 ft	75.00 ml/min
9/12/2022 12:42 PM	05:00	4.68 pH	23.09 °C	1,021.5 µS/cm	0.67 mg/L	1.90 NTU	508.6 mV	9.23 ft	153.00 ml/min
9/12/2022 12:47 PM	10:00	4.67 pH	21.78 °C	1,045.9 µS/cm	0.54 mg/L	1.65 NTU	571.0 mV	9.30 ft	153.00 ml/min
9/12/2022 12:52 PM	15:00	4.69 pH	21.13 °C	1,050.4 µS/cm	0.48 mg/L	1.63 NTU	502.6 mV	9.32 ft	153.00 ml/min
9/12/2022 12:57 PM	20:00	4.70 pH	20.93 °C	1,051.2 µS/cm	0.46 mg/L	1.39 NTU	499.6 mV	9.30 ft	153.00 ml/min
9/12/2022 1:02 PM	25:00	4.70 pH	21.10 °C	1,053.5 µS/cm	0.45 mg/L	0.95 NTU	498.1 mV	9.30 ft	153.00 ml/min

Samples

Sample ID:	Description:
B-93	

Low-Flow Test Report:

Test Date / Time: 9/13/2022 12:06:35 PM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: B-97 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.71 ft** **Total Depth: 30.71 ft** **Initial Depth to Water: 7.1 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Pump Intake From TOC: 25 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 1000 %	+/- 0.3	
9/13/2022 12:06 PM	00:00	5.54 pH	22.36 °C	1,335.4 µS/cm	0.50 mg/L	0.67 NTU	400.9 mV	7.10 ft	300.00 ml/min
9/13/2022 12:11 PM	05:00	5.54 pH	20.51 °C	1,381.5 µS/cm	0.18 mg/L	0.59 NTU	518.3 mV	7.15 ft	300.00 ml/min
9/13/2022 12:16 PM	10:00	5.54 pH	20.26 °C	1,386.7 µS/cm	0.14 mg/L	0.47 NTU	521.6 mV	7.15 ft	300.00 ml/min
9/13/2022 12:21 PM	15:00	5.54 pH	20.15 °C	1,386.2 µS/cm	0.14 mg/L	0.47 NTU	522.5 mV	7.15 ft	300.00 ml/min
9/13/2022 12:26 PM	20:00	5.54 pH	20.16 °C	1,415.3 µS/cm	0.14 mg/L	0.65 NTU	421.3 mV	7.15 ft	300.00 ml/min

Samples

Sample ID:	Description:
B-97	

Low-Flow Test Report:

Test Date / Time: 9/13/2022 10:44:05 AM
Project: SCS Plant McDonough (2)
Operator Name: Duane Fulton

Location Name: B-98 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 9.01 ft** **Total Depth: 19.01 ft** **Initial Depth to Water: 10.15 ft**	**Pump Type: Alexis Peri Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 14.64 ft** **Estimated Total Volume Pumped: 7387.7 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 53 ml/min** **Final Draw Down: 4.45 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883533**

Test Notes:

Weather Conditions:
Clear, 75

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	
9/13/2022 10:44 AM	00:00	6.16 pH	25.65 °C	343.32 µS/cm	4.71 mg/L	11.38 NTU	128.6 mV	10.50 ft	195.00 ml/min
9/13/2022 10:49 AM	05:00	6.20 pH	22.11 °C	359.86 µS/cm	3.24 mg/L	11.40 NTU	115.4 mV	10.95 ft	100.00 ml/min
9/13/2022 10:54 AM	10:00	6.21 pH	21.95 °C	363.64 µS/cm	3.25 mg/L	13.80 NTU	112.5 mV	11.33 ft	100.00 ml/min
9/13/2022 10:59 AM	15:00	6.21 pH	21.56 °C	363.14 µS/cm	3.40 mg/L	19.10 NTU	147.9 mV	11.65 ft	100.00 ml/min
9/13/2022 11:04 AM	20:00	6.19 pH	21.33 °C	367.80 µS/cm	3.39 mg/L	21.00 NTU	115.6 mV	12.10 ft	142.00 ml/min
9/13/2022 11:09 AM	25:00	6.20 pH	20.95 °C	376.70 µS/cm	3.34 mg/L	15.80 NTU	104.4 mV	12.80 ft	142.00 ml/min
9/13/2022 11:14 AM	30:00	6.19 pH	20.71 °C	378.57 µS/cm	2.76 mg/L	18.20 NTU	137.2 mV	13.33 ft	125.00 ml/min
9/13/2022 11:19 AM	35:00	6.20 pH	20.69 °C	394.14 µS/cm	2.95 mg/L	34.60 NTU	105.7 mV	13.75 ft	125.00 ml/min
9/13/2022 11:24 AM	40:00	6.22 pH	20.57 °C	353.25 µS/cm	2.63 mg/L	39.30 NTU	130.5 mV	14.45 ft	125.00 ml/min
9/13/2022 11:29 AM	45:00	6.20 pH	20.98 °C	361.69 µS/cm	2.75 mg/L	18.20 NTU	105.3 mV	14.53 ft	80.00 ml/min
9/13/2022 11:34 AM	50:00	6.18 pH	20.90 °C	370.75 µS/cm	2.27 mg/L	14.30 NTU	129.8 mV	14.62 ft	75.00 ml/min
9/13/2022 11:39 AM	55:00	6.18 pH	21.02 °C	347.93 µS/cm	3.00 mg/L	9.87 NTU	134.9 mV	14.54 ft	53.00 ml/min
9/13/2022 11:44 AM	01:00:00	6.18 pH	21.02 °C	388.49 µS/cm	3.06 mg/L	5.65 NTU	109.5 mV	14.54 ft	53.00 ml/min

9/13/2022 11:49 AM	01:05:00	6.18 pH	20.97 °C	391.17 µS/cm	3.01 mg/L	4.55 NTU	106.2 mV	14.60 ft	53.00 ml/min
9/13/2022 11:54 AM	01:10:00	6.17 pH	20.94 °C	394.06 µS/cm	3.05 mg/L	4.44 NTU	105.0 mV	14.60 ft	53.00 ml/min
9/13/2022 11:56 AM	01:11:58	6.18 pH	20.93 °C	404.66 µS/cm	3.10 mg/L	4.34 NTU	117.9 mV	14.60 ft	53.00 ml/min

Samples

Sample ID:	Description:
B-98	

Low-Flow Test Report:

Test Date / Time: 9/16/2022 10:45:55 AM
Project: Plant McDonough (39)
Operator Name: Cole Mayer

Location Name: B-101D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 64.9 ft** **Total Depth: 74.9 ft** **Initial Depth to Water: 31.83 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 70 ft** **Estimated Total Volume Pumped: 6500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 5.28 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

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	
9/16/2022 10:45 AM	00:00	5.90 pH	24.24 °C	480.61 µS/cm	5.83 mg/L	1.53 NTU	108.5 mV	31.83 ft	100.00 ml/min
9/16/2022 10:50 AM	05:00	5.97 pH	20.42 °C	573.38 µS/cm	0.93 mg/L	3.79 NTU	110.8 mV	32.38 ft	150.00 ml/min
9/16/2022 10:55 AM	10:00	5.97 pH	20.05 °C	583.16 µS/cm	0.40 mg/L	4.41 NTU	110.7 mV	33.18 ft	150.00 ml/min
9/16/2022 11:00 AM	15:00	5.97 pH	19.95 °C	584.05 µS/cm	0.29 mg/L	4.70 NTU	111.0 mV	34.15 ft	150.00 ml/min
9/16/2022 11:05 AM	20:00	5.98 pH	19.87 °C	584.39 µS/cm	0.24 mg/L	3.91 NTU	111.1 mV	35.02 ft	150.00 ml/min
9/16/2022 11:10 AM	25:00	5.96 pH	19.86 °C	575.09 µS/cm	0.20 mg/L	3.20 NTU	110.6 mV	35.84 ft	150.00 ml/min
9/16/2022 11:15 AM	30:00	5.96 pH	19.78 °C	567.81 µS/cm	0.18 mg/L	2.44 NTU	110.0 mV	37.04 ft	150.00 ml/min
9/16/2022 11:20 AM	35:00	5.95 pH	19.69 °C	564.25 µS/cm	0.17 mg/L	2.16 NTU	109.8 mV	36.50 ft	150.00 ml/min
9/16/2022 11:25 AM	40:00	5.94 pH	20.52 °C	567.00 µS/cm	0.22 mg/L	2.06 NTU	108.5 mV	37.08 ft	150.00 ml/min
9/16/2022 11:30 AM	45:00	5.92 pH	20.77 °C	546.02 µS/cm	0.21 mg/L	0.98 NTU	107.8 mV	37.11 ft	150.00 ml/min

Samples

Sample ID:	Description:
B-101D	

Low-Flow Test Report:

Test Date / Time: 9/15/2022 11:12:15 AM
Project: SCS Plant McDonough
Operator Name: Duane Fulton

Location Name: B-102D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 74.4 ft** **Total Depth: 84.4 ft** **Initial Depth to Water: 34.28 ft**	**Pump Type: QED Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 80 ft** **Estimated Total Volume Pumped: 3425 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 77 ml/min** **Final Draw Down: 0.4 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883533**

Test Notes:

Weather Conditions:
Clear, 76

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	
9/15/2022 11:12 AM	00:00	6.63 pH	25.17 °C	597.28 µS/cm	3.09 mg/L	1.74 NTU	-68.6 mV	34.43 ft	75.00 ml/min
9/15/2022 11:17 AM	05:00	5.77 pH	22.40 °C	606.77 µS/cm	0.97 mg/L	1.03 NTU	-37.0 mV	34.55 ft	75.00 ml/min
9/15/2022 11:22 AM	10:00	5.55 pH	22.00 °C	609.11 µS/cm	0.73 mg/L	1.18 NTU	-17.7 mV	34.60 ft	75.00 ml/min
9/15/2022 11:27 AM	15:00	5.48 pH	21.87 °C	615.37 µS/cm	0.59 mg/L	1.25 NTU	6.2 mV	34.68 ft	77.00 ml/min
9/15/2022 11:32 AM	20:00	5.46 pH	21.91 °C	611.65 µS/cm	0.49 mg/L	0.92 NTU	25.1 mV	34.68 ft	77.00 ml/min
9/15/2022 11:37 AM	25:00	5.45 pH	21.95 °C	612.13 µS/cm	0.43 mg/L	1.20 NTU	36.0 mV	34.67 ft	77.00 ml/min
9/15/2022 11:42 AM	30:00	5.44 pH	22.00 °C	613.53 µS/cm	0.40 mg/L	0.84 NTU	45.1 mV	34.68 ft	77.00 ml/min
9/15/2022 11:47 AM	35:00	5.44 pH	22.09 °C	612.30 µS/cm	0.36 mg/L	0.50 NTU	66.4 mV	34.68 ft	77.00 ml/min
9/15/2022 11:52 AM	40:00	5.43 pH	22.04 °C	612.13 µS/cm	0.32 mg/L	0.59 NTU	59.5 mV	34.67 ft	77.00 ml/min
9/15/2022 11:57 AM	45:00	5.43 pH	21.96 °C	614.36 µS/cm	0.31 mg/L	0.73 NTU	62.0 mV	34.68 ft	77.00 ml/min

Samples

Sample ID:	Description:

B-102D	

Low-Flow Test Report:

Test Date / Time: 9/13/2022 1:10:03 PM
Project: Plant McDonough (29)
Operator Name: Cole Mayer

Location Name: B-104D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 50 ft** **Total Depth: 60 ft** **Initial Depth to Water: 7.41 ft**	**Pump Type: bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 55 ft** **Estimated Total Volume Pumped: 7500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 6.96 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

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	
9/13/2022 1:10 PM	00:00	6.21 pH	34.46 °C	0.95 µS/cm	2.91 mg/L	1.52 NTU	105.2 mV	6.25 ft	200.00 ml/min
9/13/2022 1:15 PM	05:00	6.15 pH	22.44 °C	1.04 µS/cm	0.36 mg/L	1.16 NTU	83.7 mV	8.35 ft	200.00 ml/min
9/13/2022 1:20 PM	10:00	6.30 pH	21.77 °C	1.05 µS/cm	0.22 mg/L	0.97 NTU	73.3 mV	9.82 ft	200.00 ml/min
9/13/2022 1:25 PM	15:00	6.39 pH	21.54 °C	1.05 µS/cm	0.17 mg/L	1.13 NTU	63.9 mV	11.40 ft	200.00 ml/min
9/13/2022 1:30 PM	20:00	6.41 pH	21.38 °C	1.05 µS/cm	0.14 mg/L	0.85 NTU	56.0 mV	12.80 ft	200.00 ml/min
9/13/2022 1:35 PM	25:00	6.36 pH	21.99 °C	1.05 µS/cm	0.14 mg/L	1.03 NTU	48.6 mV	13.67 ft	150.00 ml/min
9/13/2022 1:40 PM	30:00	6.34 pH	22.01 °C	1.05 µS/cm	0.14 mg/L	0.80 NTU	44.4 mV	14.41 ft	150.00 ml/min
9/13/2022 1:45 PM	35:00	6.33 pH	22.51 °C	1.06 µS/cm	0.17 mg/L	0.70 NTU	39.1 mV	14.32 ft	100.00 ml/min
9/13/2022 1:50 PM	40:00	6.50 pH	23.55 °C	1.07 µS/cm	0.35 mg/L	0.60 NTU	34.7 mV	14.31 ft	100.00 ml/min
9/13/2022 1:55 PM	45:00	6.49 pH	23.14 °C	1.08 µS/cm	0.15 mg/L	0.52 NTU	27.3 mV	14.37 ft	100.00 ml/min

Samples

Sample ID:	Description:
B-104D	

Low-Flow Test Report:

Test Date / Time: 9/16/2022 8:56:31 AM
Project: Plant McDonough
Operator Name: M. Mann

Location Name: B-106D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 69 ft** **Total Depth: 79.4 ft** **Initial Depth to Water: 40.1 ft**	**Pump Type: bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 74 ft** **Estimated Total Volume Pumped: 4850 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 215 ml/min** **Final Draw Down: 0.64 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/16/2022 8:56 AM	00:00	6.99 pH	20.59 °C	465.86 µS/cm	3.80 mg/L	2.82 NTU	109.5 mV	40.10 ft	325.00 ml/min
9/16/2022 9:01 AM	05:00	5.93 pH	18.61 °C	419.30 µS/cm	1.12 mg/L	1.70 NTU	89.5 mV	40.74 ft	215.00 ml/min
9/16/2022 9:06 AM	10:00	5.84 pH	18.76 °C	420.95 µS/cm	1.13 mg/L	1.18 NTU	90.5 mV	40.76 ft	215.00 ml/min
9/16/2022 9:11 AM	15:00	5.82 pH	18.78 °C	420.86 µS/cm	1.09 mg/L	1.40 NTU	91.8 mV	40.72 ft	215.00 ml/min
9/16/2022 9:16 AM	20:00	5.82 pH	18.79 °C	421.00 µS/cm	1.07 mg/L	1.16 NTU	92.8 mV	40.74 ft	215.00 ml/min

Samples

Sample ID:	Description:
B-106D	

Low-Flow Test Report:

Test Date / Time: 9/14/2022 9:49:44 AM
Project: Plant McDonough (31)
Operator Name: Cole Mayer

Location Name: B-107D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 75.5 ft** **Total Depth: 85.5 ft** **Initial Depth to Water: 23.92 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 80 ft** **Estimated Total Volume Pumped: 3500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.13 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

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	
9/14/2022 9:49 AM	00:00	6.60 pH	24.88 °C	0.63 µS/cm	4.29 mg/L	1.09 NTU	93.2 mV	23.99 ft	100.00 ml/min
9/14/2022 9:54 AM	05:00	5.88 pH	21.51 °C	0.72 µS/cm	0.39 mg/L	1.15 NTU	94.7 mV	24.01 ft	150.00 ml/min
9/14/2022 9:59 AM	10:00	5.86 pH	21.11 °C	0.72 µS/cm	0.19 mg/L	0.70 NTU	96.2 mV	24.03 ft	150.00 ml/min
9/14/2022 10:04 AM	15:00	5.86 pH	21.16 °C	0.72 µS/cm	0.15 mg/L	1.63 NTU	95.1 mV	24.04 ft	150.00 ml/min
9/14/2022 10:09 AM	20:00	5.87 pH	21.17 °C	0.71 µS/cm	0.13 mg/L	0.75 NTU	95.7 mV	24.05 ft	150.00 ml/min
9/14/2022 10:14 AM	25:00	5.87 pH	21.26 °C	0.72 µS/cm	0.12 mg/L	1.05 NTU	94.2 mV	24.05 ft	150.00 ml/min

Samples

Sample ID:	Description:
B-107D	

Low-Flow Test Report:

Test Date / Time: 9/15/2022 1:40:36 PM
Project: Plant McDonough (36)
Operator Name: Cole Mayer

Location Name: B-108D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 69 ft** **Total Depth: 79 ft** **Initial Depth to Water: 22.91 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 74 ft** **Estimated Total Volume Pumped: 3750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.49 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

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	
9/15/2022 2:40 PM	00:00	5.85 pH	34.29 °C	653.02 µS/cm	2.53 mg/L	1.49 NTU	118.4 mV	23.13 ft	150.00 ml/min
9/15/2022 1:45 PM	05:00	5.88 pH	23.22 °C	742.83 µS/cm	0.35 mg/L	0.73 NTU	116.4 mV	23.28 ft	150.00 ml/min
9/15/2022 1:50 PM	10:00	5.87 pH	22.66 °C	755.42 µS/cm	0.20 mg/L	0.72 NTU	116.2 mV	23.35 ft	150.00 ml/min
9/15/2022 1:55 PM	15:00	5.87 pH	22.48 °C	749.28 µS/cm	0.16 mg/L	0.53 NTU	115.8 mV	23.38 ft	150.00 ml/min
9/15/2022 2:00 PM	20:00	5.86 pH	21.78 °C	751.88 µS/cm	0.13 mg/L	0.57 NTU	116.4 mV	23.40 ft	150.00 ml/min
9/15/2022 2:05 PM	25:00	5.86 pH	21.81 °C	757.44 µS/cm	0.12 mg/L	0.95 NTU	116.0 mV	23.40 ft	150.00 ml/min

Samples

Sample ID:	Description:
B-108D	
FB-6	

Low-Flow Test Report:

Test Date / Time: 9/20/2022 1:48:31 PM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: B-109D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 92.12 ft** **Total Depth: 102.12 ft** **Initial Depth to Water: 39.3 ft**	**Pump Type: dedicated bladder** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Pump Intake From TOC: 97 ft** **Estimated Total Volume Pumped: 11250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 3.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 1000 %	+/- 0.3	
9/20/2022 1:48 PM	00:00	7.06 pH	30.59 °C	326.87 µS/cm	4.56 mg/L	8.69 NTU	48.6 mV	39.30 ft	250.00 ml/min
9/20/2022 1:53 PM	05:00	6.30 pH	24.33 °C	427.58 µS/cm	1.03 mg/L	5.82 NTU	37.8 mV	40.35 ft	250.00 ml/min
9/20/2022 1:58 PM	10:00	6.35 pH	23.03 °C	430.73 µS/cm	0.73 mg/L	3.10 NTU	32.5 mV	41.00 ft	250.00 ml/min
9/20/2022 2:03 PM	15:00	6.38 pH	22.75 °C	434.14 µS/cm	0.72 mg/L	2.53 NTU	30.1 mV	41.25 ft	250.00 ml/min
9/20/2022 2:08 PM	20:00	6.40 pH	22.00 °C	437.36 µS/cm	0.84 mg/L	2.61 NTU	27.8 mV	41.80 ft	250.00 ml/min
9/20/2022 2:13 PM	25:00	6.38 pH	22.22 °C	436.62 µS/cm	0.86 mg/L	1.63 NTU	24.4 mV	42.20 ft	250.00 ml/min
9/20/2022 2:18 PM	30:00	6.40 pH	22.80 °C	436.85 µS/cm	0.97 mg/L	2.94 NTU	20.3 mV	42.20 ft	250.00 ml/min
9/20/2022 2:23 PM	35:00	6.39 pH	22.76 °C	442.15 µS/cm	1.12 mg/L	1.88 NTU	18.0 mV	42.20 ft	250.00 ml/min
9/20/2022 2:28 PM	40:00	6.37 pH	23.08 °C	445.92 µS/cm	1.28 mg/L	1.12 NTU	15.9 mV	42.30 ft	250.00 ml/min
9/20/2022 2:33 PM	45:00	6.38 pH	23.11 °C	441.61 µS/cm	1.32 mg/L	1.89 NTU	13.9 mV	42.35 ft	250.00 ml/min

Samples

Sample ID:	Description:
B-109D	

Low-Flow Test Report:

Test Date / Time: 9/14/2022 2:26:57 PM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: B-111D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 74.2 ft** **Total Depth: 84.2 ft** **Initial Depth to Water: 12.6 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Pump Intake From TOC: 79 ft** **Estimated Total Volume Pumped: 11250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 2.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 1000 %	+/- 0.3	
9/14/2022 2:26 PM	00:00	6.60 pH	22.83 °C	832.45 µS/cm	0.78 mg/L	2.11 NTU	56.6 mV	12.60 ft	250.00 ml/min
9/14/2022 2:31 PM	05:00	6.90 pH	19.95 °C	877.35 µS/cm	0.24 mg/L	1.65 NTU	18.6 mV	13.82 ft	250.00 ml/min
9/14/2022 2:36 PM	10:00	7.00 pH	19.59 °C	875.39 µS/cm	0.19 mg/L	1.10 NTU	-8.5 mV	14.10 ft	250.00 ml/min
9/14/2022 2:41 PM	15:00	7.47 pH	19.55 °C	923.53 µS/cm	0.15 mg/L	9.09 NTU	-67.8 mV	14.25 ft	250.00 ml/min
9/14/2022 2:46 PM	20:00	7.42 pH	19.63 °C	852.87 µS/cm	0.13 mg/L	7.44 NTU	-64.0 mV	14.45 ft	250.00 ml/min
9/14/2022 2:51 PM	25:00	7.28 pH	19.36 °C	804.65 µS/cm	0.13 mg/L	4.02 NTU	-57.3 mV	14.55 ft	250.00 ml/min
9/14/2022 2:56 PM	30:00	7.21 pH	19.15 °C	785.27 µS/cm	0.13 mg/L	3.56 NTU	-59.1 mV	14.65 ft	250.00 ml/min
9/14/2022 3:01 PM	35:00	7.16 pH	19.13 °C	754.98 µS/cm	0.13 mg/L	6.82 NTU	-49.6 mV	14.65 ft	250.00 ml/min
9/14/2022 3:06 PM	40:00	7.13 pH	19.19 °C	733.93 µS/cm	0.13 mg/L	2.35 NTU	-52.0 mV	14.65 ft	250.00 ml/min
9/14/2022 3:11 PM	45:00	7.09 pH	19.37 °C	729.46 µS/cm	0.12 mg/L	1.83 NTU	-44.7 mV	14.65 ft	250.00 ml/min

Samples

Sample ID:	Description:
B-111D	

Low-Flow Test Report:

Test Date / Time: 9/14/2022 2:36:04 PM
Project: Plant McDonough
Operator Name: M. Mann

Location Name: B-115D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 70 ft** **Total Depth: 80 ft** **Initial Depth to Water: 20.88 ft**	**Pump Type: bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 75 ft** **Estimated Total Volume Pumped: 6900 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 125 ml/min** **Final Draw Down: 2.52 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/14/2022 2:36 PM	00:00	4.95 pH	37.33 °C	706.53 µS/cm	4.72 mg/L	7.75 NTU	129.4 mV	20.88 ft	190.00 ml/min
9/14/2022 2:41 PM	05:00	5.46 pH	24.61 °C	1,019.0 µS/cm	0.72 mg/L	10.40 NTU	141.4 mV	22.72 ft	190.00 ml/min
9/14/2022 2:46 PM	10:00	5.66 pH	23.89 °C	1,041.0 µS/cm	0.45 mg/L	16.60 NTU	136.1 mV	23.34 ft	125.00 ml/min
9/14/2022 2:51 PM	15:00	5.89 pH	24.45 °C	1,049.7 µS/cm	0.45 mg/L	7.71 NTU	115.4 mV	23.38 ft	125.00 ml/min
9/14/2022 2:56 PM	20:00	6.00 pH	24.71 °C	998.26 µS/cm	0.41 mg/L	4.88 NTU	100.3 mV	23.42 ft	125.00 ml/min
9/14/2022 3:01 PM	25:00	6.02 pH	23.89 °C	941.93 µS/cm	0.35 mg/L	3.47 NTU	94.9 mV	23.37 ft	125.00 ml/min
9/14/2022 3:06 PM	30:00	5.97 pH	23.62 °C	887.92 µS/cm	0.32 mg/L	2.83 NTU	92.7 mV	23.41 ft	125.00 ml/min
9/14/2022 3:11 PM	35:00	5.91 pH	23.59 °C	853.59 µS/cm	0.30 mg/L	2.52 NTU	93.1 mV	23.42 ft	125.00 ml/min
9/14/2022 3:16 PM	40:00	5.85 pH	24.42 °C	820.69 µS/cm	0.27 mg/L	2.55 NTU	94.4 mV	23.42 ft	125.00 ml/min
9/14/2022 3:21 PM	45:00	5.80 pH	24.44 °C	805.98 µS/cm	0.25 mg/L	2.43 NTU	96.8 mV	23.41 ft	125.00 ml/min
9/14/2022 3:26 PM	50:00	5.76 pH	24.37 °C	800.22 µS/cm	0.25 mg/L	2.29 NTU	98.8 mV	23.40 ft	125.00 ml/min

Samples

Sample ID:	Description:
B-115D	

Low-Flow Test Report:

Test Date / Time: 9/19/2022 2:33:20 PM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: B-120D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 62.08 ft** **Total Depth: 72.08 ft** **Initial Depth to Water: 35.5 ft**	**Pump Type: bladder** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Pump Intake From TOC: 67 ft** **Estimated Total Volume Pumped: 5604.167 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 1000 %	+/- 0.3	
9/19/2022 2:33 PM	00:00	6.03 pH	27.76 °C	545.14 µS/cm	4.10 mg/L	6.50 NTU	60.5 mV	35.50 ft	250.00 ml/min
9/19/2022 2:38 PM	05:00	5.27 pH	21.65 °C	1,016.5 µS/cm	0.62 mg/L	1.73 NTU	79.1 mV	35.50 ft	250.00 ml/min
9/19/2022 2:43 PM	10:00	5.23 pH	21.01 °C	1,028.1 µS/cm	0.39 mg/L	1.52 NTU	81.6 mV	35.50 ft	250.00 ml/min
9/19/2022 2:45 PM	12:25	5.22 pH	21.02 °C	1,073.6 µS/cm	0.35 mg/L	1.52 NTU	81.5 mV	35.50 ft	250.00 ml/min
9/19/2022 2:50 PM	17:25	5.22 pH	20.67 °C	1,027.1 µS/cm	0.29 mg/L	1.29 NTU	84.0 mV	35.50 ft	250.00 ml/min
9/19/2022 2:55 PM	22:25	5.21 pH	20.66 °C	1,025.2 µS/cm	0.26 mg/L	1.07 NTU	84.5 mV	35.50 ft	250.00 ml/min

Samples

Sample ID:	Description:
B-120D	

Low-Flow Test Report:

Test Date / Time: 9/9/2022 9:57:11 AM
Project: Plant McDonough (26)
Operator Name: Cole Mayer

Location Name: B-62 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 29.62 ft** **Total Depth: 39.62 ft** **Initial Depth to Water: 15.52 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 34 ft** **Estimated Total Volume Pumped: 9095 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: -0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

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	
9/9/2022 9:57 AM	00:00	6.78 pH	23.43 °C	509.32 µS/cm	4.36 mg/L	13.02 NTU	107.4 mV	15.58 ft	100.00 ml/min
9/9/2022 10:02 AM	05:00	6.48 pH	20.58 °C	505.34 µS/cm	0.44 mg/L	3.16 NTU	81.4 mV	15.61 ft	100.00 ml/min
9/9/2022 10:07 AM	10:00	6.48 pH	20.07 °C	491.81 µS/cm	0.26 mg/L	6.67 NTU	73.8 mV	15.61 ft	100.00 ml/min
9/9/2022 10:12 AM	15:00	6.38 pH	19.97 °C	398.62 µS/cm	0.19 mg/L	20.96 NTU	66.6 mV	15.62 ft	100.00 ml/min
9/9/2022 10:17 AM	20:00	6.36 pH	19.78 °C	375.78 µS/cm	0.17 mg/L	19.70 NTU	62.8 mV	15.62 ft	100.00 ml/min
9/9/2022 10:22 AM	25:00	6.30 pH	19.77 °C	334.58 µS/cm	0.17 mg/L	10.82 NTU	58.6 mV	15.62 ft	100.00 ml/min
9/9/2022 10:27 AM	30:00	6.26 pH	19.73 °C	305.81 µS/cm	0.19 mg/L	7.57 NTU	55.4 mV	15.61 ft	100.00 ml/min
9/9/2022 10:32 AM	35:00	6.24 pH	19.87 °C	294.79 µS/cm	0.20 mg/L	6.39 NTU	53.1 mV	15.60 ft	100.00 ml/min
9/9/2022 10:37 AM	40:00	6.23 pH	19.98 °C	284.80 µS/cm	0.21 mg/L	6.85 NTU	51.3 mV	15.60 ft	100.00 ml/min
9/9/2022 10:42 AM	45:00	6.23 pH	20.22 °C	281.88 µS/cm	0.25 mg/L	7.84 NTU	49.7 mV	15.59 ft	100.00 ml/min
9/9/2022 10:47 AM	50:00	6.22 pH	20.28 °C	280.42 µS/cm	0.17 mg/L	8.18 NTU	48.3 mV	15.58 ft	100.00 ml/min
9/9/2022 10:52 AM	55:00	6.23 pH	20.30 °C	277.68 µS/cm	0.16 mg/L	7.20 NTU	47.3 mV	15.57 ft	100.00 ml/min
9/9/2022 10:57 AM	01:00:00	6.23 pH	20.32 °C	275.94 µS/cm	0.16 mg/L	7.25 NTU	46.2 mV	15.56 ft	100.00 ml/min
9/9/2022 11:02 AM	01:05:00	6.22 pH	20.41 °C	274.68 µS/cm	0.15 mg/L	8.09 NTU	45.6 mV	15.55 ft	100.00 ml/min
9/9/2022 11:07 AM	01:10:00	6.23 pH	20.53 °C	274.55 µS/cm	0.16 mg/L	7.18 NTU	44.8 mV	15.54 ft	100.00 ml/min

9/9/2022 11:12 AM	01:15:00	6.23 pH	20.56 °C	272.70 µS/cm	0.16 mg/L	7.22 NTU	44.1 mV	15.54 ft	100.00 ml/min
9/9/2022 11:17 AM	01:20:00	6.22 pH	20.67 °C	271.88 µS/cm	0.13 mg/L	5.95 NTU	43.3 mV	15.54 ft	100.00 ml/min
9/9/2022 11:22 AM	01:25:00	6.22 pH	20.42 °C	271.27 µS/cm	0.12 mg/L	5.74 NTU	42.5 mV	15.52 ft	100.00 ml/min
9/9/2022 11:25 AM	01:30:00	6.22 pH	20.71 °C	270.15 µS/cm	0.12 mg/L	4.84 NTU	41.3 mV	15.51 ft	100.00 ml/min

Samples

Sample ID:	Description:
B-62	

Low-Flow Test Report:

Test Date / Time: 9/8/2022 10:00:04 AM
Project: Plant McDonough (24)
Operator Name: Cole Mayer

Location Name: B-100 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.93 ft** **Total Depth: 47.93 ft** **Initial Depth to Water: 31.03 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 7000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: -0.09 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

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	
9/8/2022 10:00 AM	00:00	5.23 pH	25.80 °C	0.67 µS/cm	3.82 mg/L	43.38 NTU	72.6 mV	31.04 ft	100.00 ml/min
9/8/2022 10:05 AM	05:00	5.16 pH	23.44 °C	0.80 µS/cm	0.63 mg/L	20.58 NTU	54.5 mV	31.03 ft	100.00 ml/min
9/8/2022 10:10 AM	10:00	5.17 pH	23.01 °C	0.81 µS/cm	0.37 mg/L	10.87 NTU	51.1 mV	31.02 ft	100.00 ml/min
9/8/2022 10:15 AM	15:00	5.18 pH	22.94 °C	0.81 µS/cm	0.28 mg/L	12.72 NTU	49.3 mV	31.01 ft	100.00 ml/min
9/8/2022 10:20 AM	20:00	5.19 pH	22.95 °C	0.82 µS/cm	0.20 mg/L	10.89 NTU	48.2 mV	31.03 ft	100.00 ml/min
9/8/2022 10:25 AM	25:00	5.20 pH	23.01 °C	0.82 µS/cm	0.20 mg/L	8.06 NTU	47.6 mV	30.99 ft	100.00 ml/min
9/8/2022 10:30 AM	30:00	5.21 pH	23.08 °C	0.82 µS/cm	0.15 mg/L	9.29 NTU	47.2 mV	30.99 ft	100.00 ml/min
9/8/2022 10:35 AM	35:00	5.21 pH	23.08 °C	0.82 µS/cm	0.14 mg/L	8.14 NTU	46.4 mV	30.99 ft	100.00 ml/min
9/8/2022 10:40 AM	40:00	5.22 pH	23.28 °C	0.83 µS/cm	0.13 mg/L	8.03 NTU	45.9 mV	30.99 ft	100.00 ml/min
9/8/2022 10:45 AM	45:00	5.22 pH	23.62 °C	0.82 µS/cm	0.15 mg/L	11.23 NTU	45.2 mV	30.94 ft	100.00 ml/min
9/8/2022 10:50 AM	50:00	5.23 pH	23.54 °C	0.82 µS/cm	0.14 mg/L	9.74 NTU	45.0 mV	30.94 ft	100.00 ml/min
9/8/2022 10:55 AM	55:00	5.23 pH	23.53 °C	0.83 µS/cm	0.13 mg/L	8.05 NTU	44.7 mV	30.96 ft	100.00 ml/min
9/8/2022 11:00 AM	01:00:00	5.24 pH	23.44 °C	0.83 µS/cm	0.12 mg/L	5.64 NTU	44.7 mV	30.94 ft	100.00 ml/min
9/8/2022 11:05 AM	01:05:00	5.24 pH	23.41 °C	0.83 µS/cm	0.12 mg/L	5.46 NTU	44.5 mV	30.96 ft	100.00 ml/min
9/8/2022 11:10 AM	01:10:00	5.24 pH	23.50 °C	0.83 µS/cm	0.10 mg/L	4.72 NTU	44.4 mV	30.94 ft	100.00 ml/min

Samples

Sample ID:	Description:
B100	

Low-Flow Test Report:

Test Date / Time: 9/13/2022 9:09:37 AM
Project: SCS Plant McDonough
Operator Name: Duane Fulton

Location Name: B-54 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 27.71 ft** **Total Depth: 37.71 ft** **Initial Depth to Water: 6.25 ft**	**Pump Type: Alexis Peri Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 32 ft** **Estimated Total Volume Pumped: 4730 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 195 ml/min** **Final Draw Down: 0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883533**

Test Notes:

Weather Conditions:
Clear, 67

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	
9/13/2022 9:09 AM	00:00	5.26 pH	19.55 °C	869.97 µS/cm	0.66 mg/L	2.84 NTU	130.2 mV	6.30 ft	166.00 ml/min
9/13/2022 9:14 AM	05:00	5.31 pH	20.15 °C	858.75 µS/cm	0.22 mg/L	2.60 NTU	131.2 mV	6.33 ft	195.00 ml/min
9/13/2022 9:19 AM	10:00	5.32 pH	19.95 °C	862.42 µS/cm	0.17 mg/L	0.87 NTU	167.7 mV	6.33 ft	195.00 ml/min
9/13/2022 9:24 AM	15:00	5.33 pH	19.95 °C	861.14 µS/cm	0.15 mg/L	0.68 NTU	123.8 mV	6.35 ft	195.00 ml/min
9/13/2022 9:29 AM	20:00	5.33 pH	19.92 °C	860.39 µS/cm	0.13 mg/L	0.41 NTU	115.1 mV	6.35 ft	195.00 ml/min
9/13/2022 9:34 AM	25:00	5.34 pH	19.92 °C	860.83 µS/cm	0.12 mg/L	0.17 NTU	110.4 mV	6.35 ft	195.00 ml/min

Samples

Sample ID:	Description:
B-54	

Low-Flow Test Report:

Test Date / Time: 9/14/2022 12:03:32 PM
Project: Plant McDonough
Operator Name: M. Mann

Location Name: B-63 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 36 ft** **Total Depth: 46.15 ft** **Initial Depth to Water: 30.46 ft**	**Pump Type: bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 41 ft** **Estimated Total Volume Pumped: 11681.667 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.92 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/14/2022 12:03 PM	00:00	5.80 pH	32.29 °C	283.55 µS/cm	2.10 mg/L	111.00 NTU	42.7 mV	30.46 ft	350.00 ml/min
9/14/2022 12:08 PM	04:50	5.33 pH	21.91 °C	334.46 µS/cm	0.20 mg/L	72.90 NTU	74.0 mV	31.35 ft	300.00 ml/min
9/14/2022 12:13 PM	09:50	5.34 pH	21.64 °C	339.74 µS/cm	0.31 mg/L	33.40 NTU	78.6 mV	31.29 ft	200.00 ml/min
9/14/2022 12:18 PM	14:50	5.33 pH	21.75 °C	334.56 µS/cm	0.49 mg/L	22.50 NTU	81.0 mV	31.29 ft	200.00 ml/min
9/14/2022 12:23 PM	19:50	5.32 pH	21.72 °C	333.13 µS/cm	0.46 mg/L	17.00 NTU	84.3 mV	31.27 ft	200.00 ml/min
9/14/2022 12:35 PM	32:17	5.34 pH	21.68 °C	331.12 µS/cm	0.43 mg/L	12.30 NTU	86.7 mV	31.32 ft	200.00 ml/min
9/14/2022 12:40 PM	37:17	5.35 pH	21.74 °C	333.36 µS/cm	0.43 mg/L	7.47 NTU	86.9 mV	31.34 ft	200.00 ml/min
9/14/2022 12:45 PM	42:17	5.33 pH	21.69 °C	331.22 µS/cm	0.44 mg/L	6.90 NTU	86.8 mV	31.37 ft	200.00 ml/min
9/14/2022 12:50 PM	47:17	5.33 pH	21.73 °C	334.89 µS/cm	0.41 mg/L	5.70 NTU	86.9 mV	31.38 ft	200.00 ml/min
9/14/2022 12:55 PM	52:17	5.31 pH	21.62 °C	331.42 µS/cm	0.39 mg/L	4.81 NTU	86.9 mV	31.38 ft	200.00 ml/min

Samples

Sample ID:	Description:

B-63	
FB-5	

Low-Flow Test Report:

Test Date / Time: 9/13/2022 1:29:48 PM
Project: SCS Plant McDonough
Operator Name: Duane Fulton

Location Name: B-64 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.48 ft** **Total Depth: 30.48 ft** **Initial Depth to Water: 6.65 ft**	**Pump Type: Alexis Peri Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 25 ft** **Estimated Total Volume Pumped: 4500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.35 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883533**

Test Notes:

Weather Conditions:
Clear, 82

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	
9/13/2022 1:29 PM	00:00	5.14 pH	25.15 °C	1,246.6 µS/cm	3.50 mg/L	4.07 NTU	248.5 mV	6.85 ft	200.00 ml/min
9/13/2022 1:34 PM	05:00	5.00 pH	21.67 °C	1,323.9 µS/cm	0.20 mg/L	1.57 NTU	495.3 mV	6.98 ft	100.00 ml/min
9/13/2022 1:39 PM	10:00	4.99 pH	21.42 °C	1,322.3 µS/cm	0.13 mg/L	0.73 NTU	557.7 mV	7.00 ft	100.00 ml/min
9/13/2022 1:44 PM	15:00	5.00 pH	21.33 °C	1,323.5 µS/cm	0.10 mg/L	0.77 NTU	502.6 mV	7.00 ft	100.00 ml/min
9/13/2022 1:49 PM	20:00	5.00 pH	21.19 °C	1,321.1 µS/cm	0.08 mg/L	0.76 NTU	503.9 mV	7.01 ft	100.00 ml/min
9/13/2022 1:54 PM	25:00	5.00 pH	21.13 °C	1,323.4 µS/cm	0.07 mg/L	0.75 NTU	503.4 mV	7.00 ft	100.00 ml/min
9/13/2022 1:59 PM	30:00	5.00 pH	21.10 °C	1,319.9 µS/cm	0.06 mg/L	0.78 NTU	502.1 mV	7.00 ft	100.00 ml/min
9/13/2022 2:04 PM	35:00	5.00 pH	21.11 °C	1,315.3 µS/cm	0.05 mg/L	0.75 NTU	501.4 mV	7.00 ft	100.00 ml/min
9/13/2022 2:09 PM	40:00	5.00 pH	21.01 °C	1,315.2 µS/cm	0.04 mg/L	0.75 NTU	500.5 mV	7.00 ft	100.00 ml/min

Samples

Sample ID:	Description:
B-64	

Low-Flow Test Report:

Test Date / Time: 9/16/2022 9:03:32 AM
Project: SCS Plant McDonough
Operator Name: Duane Fulton

Location Name: B-66 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 47.99 ft** **Total Depth: 57.99 ft** **Initial Depth to Water: 21.74 ft**	**Pump Type: Alexis Peri Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 52 ft** **Estimated Total Volume Pumped: 4060 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 55 ml/min** **Final Draw Down: 1.76 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883533**

Test Notes:

Weather Conditions:
Clear, 76

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	
9/16/2022 9:03 AM	00:00	6.65 pH	18.88 °C	781.83 µS/cm	4.12 mg/L	4.26 NTU	1.5 mV	22.01 ft	100.00 ml/min
9/16/2022 9:08 AM	05:00	6.58 pH	18.84 °C	795.39 µS/cm	0.75 mg/L	1.83 NTU	-19.5 mV	22.53 ft	85.00 ml/min
9/16/2022 9:13 AM	10:00	6.59 pH	18.94 °C	796.84 µS/cm	0.41 mg/L	1.14 NTU	-39.3 mV	22.80 ft	66.00 ml/min
9/16/2022 9:18 AM	15:00	6.59 pH	19.03 °C	796.70 µS/cm	0.32 mg/L	1.55 NTU	-24.4 mV	23.01 ft	66.00 ml/min
9/16/2022 9:23 AM	20:00	6.59 pH	19.16 °C	796.77 µS/cm	0.30 mg/L	1.79 NTU	-24.3 mV	23.13 ft	55.00 ml/min
9/16/2022 9:28 AM	25:00	6.59 pH	19.30 °C	794.25 µS/cm	0.29 mg/L	1.83 NTU	-23.8 mV	23.22 ft	55.00 ml/min
9/16/2022 9:33 AM	30:00	6.58 pH	19.37 °C	791.15 µS/cm	0.27 mg/L	1.78 NTU	-23.0 mV	23.30 ft	55.00 ml/min
9/16/2022 9:38 AM	35:00	6.57 pH	19.44 °C	788.89 µS/cm	0.29 mg/L	0.86 NTU	-21.2 mV	23.34 ft	55.00 ml/min
9/16/2022 9:43 AM	40:00	6.58 pH	19.52 °C	787.14 µS/cm	0.34 mg/L	1.87 NTU	-35.6 mV	23.40 ft	55.00 ml/min
9/16/2022 9:48 AM	45:00	6.58 pH	19.61 °C	787.64 µS/cm	0.42 mg/L	1.17 NTU	-18.7 mV	23.41 ft	55.00 ml/min
9/16/2022 9:53 AM	50:00	6.59 pH	19.70 °C	786.18 µS/cm	0.45 mg/L	1.05 NTU	-17.8 mV	23.45 ft	55.00 ml/min
9/16/2022 9:58 AM	55:00	6.59 pH	19.87 °C	788.28 µS/cm	0.49 mg/L	1.07 NTU	-32.1 mV	23.46 ft	55.00 ml/min
9/16/2022 10:03 AM	01:00:00	6.60 pH	19.95 °C	788.78 µS/cm	0.51 mg/L	1.05 NTU	-17.2 mV	23.48 ft	55.00 ml/min

9/16/2022 10:08 AM	01:05:00	6.60 pH	19.97 °C	788.53 µS/cm	0.52 mg/L	1.02 NTU	-30.5 mV	23.50 ft	55.00 ml/min

Samples

Sample ID:	Description:
B-66	

Low-Flow Test Report:

Test Date / Time: 9/13/2022 9:14:25 AM
Project: Plant McDonough
Operator Name: M. Mann

Location Name: B-76 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 28 ft** **Total Depth: 38.5 ft** **Initial Depth to Water: 15.45 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 33.5 ft** **Estimated Total Volume Pumped: 6850 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 120 ml/min** **Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/13/2022 9:14 AM	00:00	6.11 pH	20.66 °C	1,222.8 µS/cm	1.15 mg/L	85.20 NTU	83.2 mV	15.45 ft	150.00 ml/min
9/13/2022 9:19 AM	05:00	6.15 pH	20.84 °C	1,277.1 µS/cm	0.24 mg/L	38.50 NTU	70.3 mV	15.58 ft	200.00 ml/min
9/13/2022 9:24 AM	10:00	6.16 pH	21.15 °C	1,276.8 µS/cm	0.17 mg/L	14.30 NTU	61.3 mV	15.57 ft	200.00 ml/min
9/13/2022 9:29 AM	15:00	6.17 pH	21.26 °C	1,279.6 µS/cm	0.14 mg/L	5.52 NTU	56.1 mV	15.59 ft	200.00 ml/min
9/13/2022 9:34 AM	20:00	6.17 pH	21.33 °C	1,280.3 µS/cm	0.12 mg/L	9.09 NTU	53.3 mV	15.61 ft	200.00 ml/min
9/13/2022 9:39 AM	25:00	6.18 pH	21.37 °C	1,277.8 µS/cm	0.10 mg/L	6.04 NTU	50.5 mV	15.56 ft	150.00 ml/min
9/13/2022 9:44 AM	30:00	6.13 pH	21.11 °C	1,246.8 µS/cm	0.11 mg/L	6.88 NTU	48.9 mV	15.59 ft	150.00 ml/min
9/13/2022 9:49 AM	35:00	6.09 pH	21.15 °C	1,225.3 µS/cm	0.12 mg/L	5.11 NTU	49.1 mV	15.53 ft	120.00 ml/min
9/13/2022 9:54 AM	40:00	6.05 pH	21.31 °C	1,206.7 µS/cm	0.12 mg/L	2.51 NTU	49.1 mV	15.51 ft	120.00 ml/min

Samples

Sample ID:	Description:
B-76	

Low-Flow Test Report:

Test Date / Time: 9/13/2022 1:26:24 PM
Project: Plant McDonough
Operator Name: M. Mann

Location Name: B-77 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33 ft** **Total Depth: 43.46 ft** **Initial Depth to Water: 30.7 ft**	**Pump Type: bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 38 ft** **Estimated Total Volume Pumped: 12875 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 2.22 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/13/2022 1:26 PM	00:00	6.12 pH	31.72 °C	301.01 µS/cm	2.47 mg/L	40.10 NTU	58.8 mV	30.70 ft	275.00 ml/min
9/13/2022 1:31 PM	05:00	6.36 pH	22.45 °C	323.88 µS/cm	0.18 mg/L	39.00 NTU	11.8 mV	31.75 ft	275.00 ml/min
9/13/2022 1:36 PM	10:00	6.39 pH	22.08 °C	322.42 µS/cm	0.13 mg/L	43.50 NTU	-5.4 mV	32.07 ft	275.00 ml/min
9/13/2022 1:41 PM	15:00	6.38 pH	22.82 °C	310.58 µS/cm	0.16 mg/L	31.40 NTU	-12.7 mV	31.99 ft	275.00 ml/min
9/13/2022 1:46 PM	20:00	6.35 pH	22.57 °C	292.32 µS/cm	0.09 mg/L	21.90 NTU	-13.2 mV	32.15 ft	275.00 ml/min
9/13/2022 1:51 PM	25:00	6.34 pH	21.87 °C	292.27 µS/cm	0.09 mg/L	28.30 NTU	-11.0 mV	32.39 ft	200.00 ml/min
9/13/2022 1:56 PM	30:00	6.32 pH	22.25 °C	289.74 µS/cm	0.08 mg/L	16.40 NTU	-12.6 mV	32.49 ft	200.00 ml/min
9/13/2022 2:01 PM	35:00	6.33 pH	22.29 °C	290.32 µS/cm	0.08 mg/L	12.60 NTU	-11.8 mV	32.61 ft	200.00 ml/min
9/13/2022 2:06 PM	40:00	6.33 pH	22.30 °C	289.81 µS/cm	0.07 mg/L	9.20 NTU	-13.5 mV	32.69 ft	200.00 ml/min
9/13/2022 2:11 PM	45:00	6.34 pH	22.30 °C	290.78 µS/cm	0.06 mg/L	7.17 NTU	-14.2 mV	32.78 ft	200.00 ml/min
9/13/2022 2:16 PM	50:00	6.33 pH	22.31 °C	292.30 µS/cm	0.06 mg/L	5.66 NTU	-14.9 mV	32.86 ft	200.00 ml/min
9/13/2022 2:21 PM	55:00	6.34 pH	22.29 °C	291.54 µS/cm	0.05 mg/L	4.94 NTU	-15.2 mV	32.92 ft	200.00 ml/min

Samples

Sample ID:	Description:
B-77	Extra Rad

Low-Flow Test Report:

Test Date / Time: 9/13/2022 1:53:58 PM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: B-78 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 21.7 ft** **Total Depth: 31.7 ft** **Initial Depth to Water: 11.6 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **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: 0.15 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 1000 %	+/- 0.3	
9/13/2022 1:53 PM	00:00	4.53 pH	23.26 °C	1,071.4 µS/cm	0.44 mg/L	0.85 NTU	499.8 mV	11.60 ft	250.00 ml/min
9/13/2022 1:58 PM	05:00	4.53 pH	20.27 °C	1,043.5 µS/cm	0.21 mg/L	0.66 NTU	565.5 mV	11.75 ft	250.00 ml/min
9/13/2022 2:03 PM	10:00	4.54 pH	20.04 °C	1,045.6 µS/cm	0.17 mg/L	0.77 NTU	505.2 mV	11.75 ft	250.00 ml/min
9/13/2022 2:08 PM	15:00	4.54 pH	19.90 °C	1,051.0 µS/cm	0.16 mg/L	1.07 NTU	567.1 mV	11.75 ft	250.00 ml/min
9/13/2022 2:13 PM	20:00	4.56 pH	19.81 °C	1,050.7 µS/cm	0.15 mg/L	0.79 NTU	505.6 mV	11.75 ft	250.00 ml/min

Samples

Sample ID:	Description:
B-78	

Low-Flow Test Report:

Test Date / Time: 9/12/2022 9:45:12 AM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: B-79 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 26.38 ft** **Total Depth: 36.38 ft** **Initial Depth to Water: 7.7 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Pump Intake From TOC: 31 ft** **Estimated Total Volume Pumped: 5004.167 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: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 1000 %	+/- 0.3	
9/12/2022 9:45 AM	00:00	7.29 pH	24.80 °C	0.00 µS/cm	8.14 mg/L	3.53 NTU	132.7 mV	7.70 ft	250.00 ml/min
9/12/2022 9:50 AM	05:00	4.86 pH	21.47 °C	0.50 µS/cm	0.71 mg/L	7.79 NTU	133.5 mV	8.30 ft	250.00 ml/min
9/12/2022 9:54 AM	09:42	4.88 pH	20.62 °C	0.51 µS/cm	0.34 mg/L		143.9 mV	8.30 ft	250.00 ml/min
9/12/2022 9:55 AM	10:01	4.88 pH	20.58 °C	0.51 µS/cm	0.33 mg/L	2.10 NTU	143.6 mV	8.35 ft	250.00 ml/min
9/12/2022 10:00 AM	15:01	4.89 pH	20.51 °C	0.52 µS/cm	0.25 mg/L	0.94 NTU	123.4 mV	8.39 ft	250.00 ml/min
9/12/2022 10:05 AM	20:01	4.92 pH	20.52 °C	0.53 µS/cm	0.22 mg/L	0.62 NTU	119.7 mV	8.45 ft	250.00 ml/min

Samples

Sample ID:	Description:
B-79	

Low-Flow Test Report:

Test Date / Time: 9/16/2022 11:32:15 AM
Project: SCS Plant McDonough
Operator Name: Duane Fulton

Location Name: B-82 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.65 ft** **Total Depth: 47.65 ft** **Initial Depth to Water: 18.96 ft**	**Pump Type: Alexis Peri Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 3125 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 75 ml/min** **Final Draw Down: 0.66 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883533**

Test Notes:

Weather Conditions:
Clear, 77

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	
9/16/2022 11:32 AM	00:00	5.74 pH	28.31 °C	776.27 µS/cm	3.95 mg/L	3.77 NTU	121.6 mV	19.17 ft	100.00 ml/min
9/16/2022 11:37 AM	05:00	5.08 pH	22.88 °C	830.02 µS/cm	0.75 mg/L	3.65 NTU	233.7 mV	19.49 ft	75.00 ml/min
9/16/2022 11:42 AM	10:00	5.05 pH	22.48 °C	829.67 µS/cm	0.59 mg/L	4.14 NTU	165.1 mV	19.55 ft	75.00 ml/min
9/16/2022 11:47 AM	15:00	5.04 pH	22.29 °C	834.81 µS/cm	0.54 mg/L	2.45 NTU	209.2 mV	19.60 ft	75.00 ml/min
9/16/2022 11:52 AM	20:00	5.04 pH	22.15 °C	831.99 µS/cm	0.50 mg/L	2.27 NTU	150.4 mV	19.62 ft	75.00 ml/min
9/16/2022 11:57 AM	25:00	5.04 pH	22.23 °C	833.79 µS/cm	0.48 mg/L	2.15 NTU	188.8 mV	19.62 ft	75.00 ml/min
9/16/2022 12:02 PM	30:00	5.03 pH	22.55 °C	831.19 µS/cm	0.47 mg/L	1.82 NTU	141.3 mV	19.62 ft	75.00 ml/min
9/16/2022 12:07 PM	35:00	5.02 pH	22.54 °C	826.34 µS/cm	0.46 mg/L	2.01 NTU	132.3 mV	19.62 ft	75.00 ml/min
9/16/2022 12:12 PM	40:00	5.02 pH	22.36 °C	829.57 µS/cm	0.43 mg/L	2.23 NTU	169.7 mV	19.62 ft	75.00 ml/min

Samples

Sample ID:	Description:
B-82	

Low-Flow Test Report:

Test Date / Time: 9/16/2022 10:29:35 AM
Project: Plant McDonough
Operator Name: M. Mann

Location Name: B-88 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 65 ft** **Total Depth: 75.06 ft** **Initial Depth to Water: 37.8 ft**	**Pump Type: bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 70 ft** **Estimated Total Volume Pumped: 3000 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**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/16/2022 10:29 AM	00:00	6.17 pH	22.94 °C	815.44 µS/cm	4.12 mg/L	4.10 NTU	107.5 mV	37.80 ft	200.00 ml/min
9/16/2022 10:34 AM	05:00	5.49 pH	18.96 °C	967.19 µS/cm	0.45 mg/L	3.71 NTU	115.6 mV	37.88 ft	200.00 ml/min
9/16/2022 10:39 AM	10:00	5.46 pH	18.72 °C	977.78 µS/cm	0.47 mg/L	2.78 NTU	120.3 mV	37.91 ft	200.00 ml/min
9/16/2022 10:44 AM	15:00	5.47 pH	18.77 °C	979.56 µS/cm	0.52 mg/L	2.40 NTU	121.4 mV	37.90 ft	200.00 ml/min

Samples

Sample ID:	Description:
B-88	

Low-Flow Test Report:

Test Date / Time: 9/9/2022 9:57:11 AM
Project: Plant McDonough (26)
Operator Name: Cole Mayer

Location Name: B-62 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 29.62 ft** **Total Depth: 39.62 ft** **Initial Depth to Water: 15.52 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 34 ft** **Estimated Total Volume Pumped: 9095 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: -0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

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	
9/9/2022 9:57 AM	00:00	6.78 pH	23.43 °C	509.32 µS/cm	4.36 mg/L	13.02 NTU	107.4 mV	15.58 ft	100.00 ml/min
9/9/2022 10:02 AM	05:00	6.48 pH	20.58 °C	505.34 µS/cm	0.44 mg/L	3.16 NTU	81.4 mV	15.61 ft	100.00 ml/min
9/9/2022 10:07 AM	10:00	6.48 pH	20.07 °C	491.81 µS/cm	0.26 mg/L	6.67 NTU	73.8 mV	15.61 ft	100.00 ml/min
9/9/2022 10:12 AM	15:00	6.38 pH	19.97 °C	398.62 µS/cm	0.19 mg/L	20.96 NTU	66.6 mV	15.62 ft	100.00 ml/min
9/9/2022 10:17 AM	20:00	6.36 pH	19.78 °C	375.78 µS/cm	0.17 mg/L	19.70 NTU	62.8 mV	15.62 ft	100.00 ml/min
9/9/2022 10:22 AM	25:00	6.30 pH	19.77 °C	334.58 µS/cm	0.17 mg/L	10.82 NTU	58.6 mV	15.62 ft	100.00 ml/min
9/9/2022 10:27 AM	30:00	6.26 pH	19.73 °C	305.81 µS/cm	0.19 mg/L	7.57 NTU	55.4 mV	15.61 ft	100.00 ml/min
9/9/2022 10:32 AM	35:00	6.24 pH	19.87 °C	294.79 µS/cm	0.20 mg/L	6.39 NTU	53.1 mV	15.60 ft	100.00 ml/min
9/9/2022 10:37 AM	40:00	6.23 pH	19.98 °C	284.80 µS/cm	0.21 mg/L	6.85 NTU	51.3 mV	15.60 ft	100.00 ml/min
9/9/2022 10:42 AM	45:00	6.23 pH	20.22 °C	281.88 µS/cm	0.25 mg/L	7.84 NTU	49.7 mV	15.59 ft	100.00 ml/min
9/9/2022 10:47 AM	50:00	6.22 pH	20.28 °C	280.42 µS/cm	0.17 mg/L	8.18 NTU	48.3 mV	15.58 ft	100.00 ml/min
9/9/2022 10:52 AM	55:00	6.23 pH	20.30 °C	277.68 µS/cm	0.16 mg/L	7.20 NTU	47.3 mV	15.57 ft	100.00 ml/min
9/9/2022 10:57 AM	01:00:00	6.23 pH	20.32 °C	275.94 µS/cm	0.16 mg/L	7.25 NTU	46.2 mV	15.56 ft	100.00 ml/min
9/9/2022 11:02 AM	01:05:00	6.22 pH	20.41 °C	274.68 µS/cm	0.15 mg/L	8.09 NTU	45.6 mV	15.55 ft	100.00 ml/min
9/9/2022 11:07 AM	01:10:00	6.23 pH	20.53 °C	274.55 µS/cm	0.16 mg/L	7.18 NTU	44.8 mV	15.54 ft	100.00 ml/min

9/9/2022 11:12 AM	01:15:00	6.23 pH	20.56 °C	272.70 µS/cm	0.16 mg/L	7.22 NTU	44.1 mV	15.54 ft	100.00 ml/min
9/9/2022 11:17 AM	01:20:00	6.22 pH	20.67 °C	271.88 µS/cm	0.13 mg/L	5.95 NTU	43.3 mV	15.54 ft	100.00 ml/min
9/9/2022 11:22 AM	01:25:00	6.22 pH	20.42 °C	271.27 µS/cm	0.12 mg/L	5.74 NTU	42.5 mV	15.52 ft	100.00 ml/min
9/9/2022 11:25 AM	01:30:00	6.22 pH	20.71 °C	270.15 µS/cm	0.12 mg/L	4.84 NTU	41.3 mV	15.51 ft	100.00 ml/min

Samples

Sample ID:	Description:
B-62	

Low-Flow Test Report:

Test Date / Time: 9/9/2022 10:14:14 AM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: B-68 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 8.03 ft** **Total Depth: 18.03 ft** **Initial Depth to Water: 4.25 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Pump Intake From TOC: 13 ft** **Estimated Total Volume Pumped: 7500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.45 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 1000 %	+/- 0.3	
9/9/2022 10:14 AM	00:00	6.26 pH	23.85 °C	0.47 µS/cm	3.83 mg/L	207.00 NTU	32.8 mV	4.25 ft	250.00 ml/min
9/9/2022 10:19 AM	05:00	6.52 pH	19.59 °C	0.49 µS/cm	0.15 mg/L	48.50 NTU	-12.1 mV	4.70 ft	250.00 ml/min
9/9/2022 10:24 AM	10:00	6.56 pH	18.96 °C	0.49 µS/cm	0.10 mg/L	26.00 NTU	-29.5 mV	4.70 ft	250.00 ml/min
9/9/2022 10:29 AM	15:00	6.59 pH	18.88 °C	0.49 µS/cm	0.09 mg/L	14.60 NTU	-28.5 mV	4.70 ft	250.00 ml/min
9/9/2022 10:34 AM	20:00	6.61 pH	19.18 °C	0.49 µS/cm	0.07 mg/L	11.80 NTU	-38.3 mV	4.70 ft	250.00 ml/min
9/9/2022 10:39 AM	25:00	6.62 pH	19.19 °C	0.49 µS/cm	0.07 mg/L	7.90 NTU	-31.8 mV	4.70 ft	250.00 ml/min
9/9/2022 10:44 AM	30:00	6.64 pH	19.09 °C	0.49 µS/cm	0.07 mg/L	4.71 NTU	-40.4 mV	4.70 ft	250.00 ml/min

Samples

Sample ID:	Description:
B-68	

Low-Flow Test Report:

Test Date / Time: 9/8/2022 2:18:20 PM
Project: SCS Plant McDonough
Operator Name: Duane Fulton

Location Name: B-73 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 5.9 ft** **Total Depth: 15.9 ft** **Initial Depth to Water: 4.61 ft**	**Pump Type: Alexis Peri Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 10 ft** **Estimated Total Volume Pumped: 3350 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.25 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883533**

Test Notes:

Weather Conditions:
Cloudy 82

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	
9/8/2022 2:18 PM	00:00	6.79 pH	27.91 °C	399.50 µS/cm	2.67 mg/L	5.48 NTU	36.0 mV	4.75 ft	90.00 ml/min
9/8/2022 2:23 PM	05:00	6.62 pH	22.57 °C	426.42 µS/cm	0.21 mg/L	2.90 NTU	47.1 mV	4.75 ft	90.00 ml/min
9/8/2022 2:28 PM	10:00	6.63 pH	22.18 °C	428.80 µS/cm	0.14 mg/L	0.99 NTU	47.3 mV	4.83 ft	90.00 ml/min
9/8/2022 2:33 PM	15:00	6.63 pH	21.86 °C	429.63 µS/cm	0.12 mg/L	2.04 NTU	54.9 mV	4.85 ft	100.00 ml/min
9/8/2022 2:38 PM	20:00	6.63 pH	21.78 °C	430.65 µS/cm	0.11 mg/L	1.20 NTU	48.2 mV	4.85 ft	100.00 ml/min
9/8/2022 2:43 PM	25:00	6.63 pH	21.73 °C	430.03 µS/cm	0.10 mg/L	0.72 NTU	56.2 mV	4.86 ft	100.00 ml/min
9/8/2022 2:48 PM	30:00	6.63 pH	21.77 °C	430.02 µS/cm	0.09 mg/L	0.30 NTU	48.6 mV	4.85 ft	100.00 ml/min
9/8/2022 2:53 PM	35:00	6.63 pH	21.73 °C	429.75 µS/cm	0.10 mg/L	0.35 NTU	56.7 mV	4.86 ft	100.00 ml/min

Samples

Sample ID:	Description:
B-73	

Low-Flow Test Report:

Test Date / Time: 9/14/2022 10:42:16 AM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: B-74 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 6.3 ft** **Total Depth: 16.3 ft** **Initial Depth to Water: 4.53 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Pump Intake From TOC: 11 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 1.12 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 1000 %	+/- 0.3	
9/14/2022 10:42 AM	00:00	6.02 pH	21.47 °C	140.12 µS/cm	0.32 mg/L	0.61 NTU	127.4 mV	4.53 ft	250.00 ml/min
9/14/2022 10:47 AM	05:00	6.02 pH	19.80 °C	151.20 µS/cm	0.16 mg/L	1.34 NTU	119.4 mV	5.54 ft	250.00 ml/min
9/14/2022 10:52 AM	10:00	6.02 pH	19.52 °C	153.69 µS/cm	0.14 mg/L	1.18 NTU	113.0 mV	5.64 ft	250.00 ml/min
9/14/2022 10:57 AM	15:00	6.00 pH	19.43 °C	155.18 µS/cm	0.13 mg/L	0.63 NTU	106.8 mV	5.65 ft	250.00 ml/min
9/14/2022 11:02 AM	20:00	6.01 pH	19.40 °C	157.41 µS/cm	0.14 mg/L	0.49 NTU	102.7 mV	5.65 ft	250.00 ml/min

Samples

Sample ID:	Description:
B-74	

Low-Flow Test Report:

Test Date / Time: 9/12/2022 11:30:12 AM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: B-90 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 23.4 ft** **Total Depth: 33.4 ft** **Initial Depth to Water: 2.55 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Pump Intake From TOC: 28 ft** **Estimated Total Volume Pumped: 11250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 1.25 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 1000 %	+/- 0.3	
9/12/2022 11:30 AM	00:00	5.28 pH	22.17 °C	872.60 µS/cm	0.33 mg/L	8.61 NTU	81.3 mV	2.55 ft	250.00 ml/min
9/12/2022 11:35 AM	05:00	5.27 pH	20.24 °C	870.12 µS/cm	0.22 mg/L	7.22 NTU	78.1 mV	3.60 ft	250.00 ml/min
9/12/2022 11:40 AM	10:00	5.28 pH	19.90 °C	869.47 µS/cm	0.18 mg/L	5.00 NTU	76.9 mV	3.70 ft	250.00 ml/min
9/12/2022 11:45 AM	15:00	5.30 pH	19.78 °C	858.57 µS/cm	0.18 mg/L	3.04 NTU	77.7 mV	3.80 ft	250.00 ml/min
9/12/2022 11:50 AM	20:00	5.31 pH	19.86 °C	854.28 µS/cm	0.12 mg/L	3.03 NTU	77.5 mV	3.80 ft	250.00 ml/min
9/12/2022 11:55 AM	25:00	5.32 pH	19.73 °C	849.31 µS/cm	0.22 mg/L	2.71 NTU	75.6 mV	3.80 ft	250.00 ml/min
9/12/2022 12:00 PM	30:00	5.32 pH	19.70 °C	841.62 µS/cm	0.20 mg/L	2.73 NTU	77.0 mV	3.80 ft	250.00 ml/min
9/12/2022 12:05 PM	35:00	5.34 pH	19.72 °C	836.03 µS/cm	0.15 mg/L	2.82 NTU	76.7 mV	3.80 ft	250.00 ml/min
9/12/2022 12:10 PM	40:00	5.33 pH	20.06 °C	837.83 µS/cm	0.19 mg/L	2.21 NTU	74.8 mV	3.80 ft	250.00 ml/min
9/12/2022 12:15 PM	45:00	5.35 pH	19.98 °C	829.87 µS/cm	0.10 mg/L	1.13 NTU	76.4 mV	3.80 ft	250.00 ml/min

Samples

Sample ID:	Description:
B-90	

Low-Flow Test Report:

Test Date / Time: 9/12/2022 12:46:24 PM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: B-91 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 24.6 ft** **Total Depth: 34.6 ft** **Initial Depth to Water: 4.05 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Pump Intake From TOC: 29 ft** **Estimated Total Volume Pumped: 10000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.5 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 1000 %	+/- 0.3	
9/12/2022 12:46 PM	00:00	5.32 pH	24.66 °C	861.55 µS/cm	0.51 mg/L	5.27 NTU	85.0 mV	4.05 ft	250.00 ml/min
9/12/2022 12:51 PM	05:00	5.30 pH	20.93 °C	897.36 µS/cm	0.17 mg/L	20.02 NTU	87.5 mV	4.50 ft	250.00 ml/min
9/12/2022 12:56 PM	10:00	5.29 pH	20.53 °C	900.37 µS/cm	0.14 mg/L	25.40 NTU	87.5 mV	4.50 ft	250.00 ml/min
9/12/2022 1:01 PM	15:00	5.28 pH	21.00 °C	906.97 µS/cm	0.12 mg/L	9.29 NTU	84.6 mV	4.50 ft	250.00 ml/min
9/12/2022 1:06 PM	20:00	5.28 pH	20.89 °C	901.43 µS/cm	0.11 mg/L	4.13 NTU	87.9 mV	4.55 ft	250.00 ml/min
9/12/2022 1:11 PM	25:00	5.27 pH	20.97 °C	901.61 µS/cm	0.11 mg/L	3.20 NTU	85.3 mV	4.55 ft	250.00 ml/min
9/12/2022 1:16 PM	30:00	5.27 pH	20.75 °C	896.67 µS/cm	0.10 mg/L	3.21 NTU	89.2 mV	4.55 ft	250.00 ml/min
9/12/2022 1:21 PM	35:00	5.28 pH	20.87 °C	893.83 µS/cm	0.09 mg/L	1.62 NTU	86.7 mV	4.55 ft	250.00 ml/min
9/12/2022 1:26 PM	40:00	5.28 pH	20.93 °C	895.66 µS/cm	0.09 mg/L	1.02 NTU	90.8 mV	4.55 ft	250.00 ml/min

Samples

Sample ID:	Description:
B-91	

Low-Flow Test Report:

Test Date / Time: 9/12/2022 2:03:34 PM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: B-95 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 25.16 ft** **Total Depth: 35.16 ft** **Initial Depth to Water: 2.61 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Pump Intake From TOC: 30 ft** **Estimated Total Volume Pumped: 8750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 1.19 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 1000 %	+/- 0.3	
9/12/2022 2:03 PM	00:00	5.34 pH	26.03 °C	547.22 µS/cm	1.02 mg/L	21.90 NTU	101.6 mV	2.61 ft	250.00 ml/min
9/12/2022 2:08 PM	05:00	5.32 pH	22.62 °C	579.09 µS/cm	0.19 mg/L	24.90 NTU	106.5 mV	3.65 ft	250.00 ml/min
9/12/2022 2:13 PM	10:00	5.32 pH	22.67 °C	571.69 µS/cm	0.14 mg/L	7.62 NTU	106.2 mV	3.70 ft	250.00 ml/min
9/12/2022 2:18 PM	15:00	5.33 pH	22.91 °C	570.70 µS/cm	0.13 mg/L	4.08 NTU	100.0 mV	3.80 ft	250.00 ml/min
9/12/2022 2:23 PM	20:00	5.33 pH	22.76 °C	556.31 µS/cm	0.13 mg/L	3.20 NTU	105.6 mV	3.80 ft	250.00 ml/min
9/12/2022 2:28 PM	25:00	5.33 pH	22.76 °C	550.96 µS/cm	0.15 mg/L	2.40 NTU	100.1 mV	3.80 ft	250.00 ml/min
9/12/2022 2:33 PM	30:00	5.33 pH	22.28 °C	551.67 µS/cm	0.15 mg/L	2.36 NTU	107.0 mV	3.80 ft	250.00 ml/min
9/12/2022 2:38 PM	35:00	5.33 pH	22.11 °C	555.26 µS/cm	0.15 mg/L	1.45 NTU	107.6 mV	3.80 ft	250.00 ml/min

Samples

Sample ID:	Description:
B-95	

Low-Flow Test Report:

Test Date / Time: 9/13/2022 10:41:19 AM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: B-96 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 22.33 ft** **Total Depth: 32.33 ft** **Initial Depth to Water: 6.4 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Pump Intake From TOC: 27 ft** **Estimated Total Volume Pumped: 13204.167 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.33 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 1000 %	+/- 0.3	
9/13/2022 10:41 AM	00:00	5.24 pH	21.49 °C	1,046.7 µS/cm	1.81 mg/L	121.00 NTU	218.7 mV	6.40 ft	250.00 ml/min
9/13/2022 10:46 AM	05:00	5.03 pH	20.40 °C	1,047.0 µS/cm	0.17 mg/L	83.50 NTU	405.4 mV	6.60 ft	250.00 ml/min
9/13/2022 10:51 AM	10:00	5.02 pH	20.26 °C	1,037.0 µS/cm	0.13 mg/L	35.20 NTU	528.3 mV	6.60 ft	250.00 ml/min
9/13/2022 10:56 AM	15:00	5.03 pH	20.22 °C	1,035.9 µS/cm	0.11 mg/L	12.20 NTU	539.5 mV	6.75 ft	250.00 ml/min
9/13/2022 10:57 AM	16:31	5.03 pH	20.17 °C	1,102.3 µS/cm	0.11 mg/L	12.20 NTU	451.8 mV	6.75 ft	250.00 ml/min
9/13/2022 11:02 AM	21:31	5.03 pH	20.14 °C	1,040.8 µS/cm	0.09 mg/L	8.72 NTU	437.8 mV	6.70 ft	250.00 ml/min
9/13/2022 11:04 AM	22:49	5.03 pH	20.13 °C	1,085.3 µS/cm	0.09 mg/L	8.72 NTU	449.1 mV	6.70 ft	250.00 ml/min
9/13/2022 11:09 AM	27:49	5.03 pH	20.13 °C	1,040.7 µS/cm	0.09 mg/L	4.95 NTU	454.3 mV	6.70 ft	250.00 ml/min
9/13/2022 11:14 AM	32:49	5.03 pH	20.13 °C	1,033.2 µS/cm	0.10 mg/L	4.12 NTU	453.5 mV	6.73 ft	250.00 ml/min
9/13/2022 11:19 AM	37:49	5.02 pH	20.16 °C	1,034.4 µS/cm	0.09 mg/L	1.79 NTU	550.8 mV	6.73 ft	250.00 ml/min
9/13/2022 11:24 AM	42:49	5.03 pH	20.10 °C	1,033.9 µS/cm	0.09 mg/L	1.71 NTU	456.6 mV	6.73 ft	250.00 ml/min
9/13/2022 11:29 AM	47:49	5.03 pH	20.17 °C	1,033.3 µS/cm	0.08 mg/L	1.35 NTU	456.2 mV	6.73 ft	250.00 ml/min
9/13/2022 11:34 AM	52:49	5.03 pH	20.16 °C	1,033.9 µS/cm	0.09 mg/L	0.94 NTU	552.6 mV	6.73 ft	250.00 ml/min

Samples

Sample ID:	Description:
B-96	

Low-Flow Test Report:

Test Date / Time: 9/12/2022 9:43:26 AM
Project: SCS Plant McDonough
Operator Name: Duane Fulton

Location Name: B-99 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 6.93 ft** **Total Depth: 11.93 ft** **Initial Depth to Water: 4 ft**	**Pump Type: Alexis Peri Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 8 ft** **Estimated Total Volume Pumped: 3475 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 85 ml/min** **Final Draw Down: 0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883533**

Test Notes:

Weather Conditions:
Cloudy, 70

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	
9/12/2022 9:43 AM	00:00	5.79 pH	23.72 °C	737.06 µS/cm	3.88 mg/L	47.70 NTU	60.9 mV	4.14 ft	100.00 ml/min
9/12/2022 9:48 AM	05:00	5.75 pH	23.02 °C	757.13 µS/cm	0.50 mg/L	21.10 NTU	43.7 mV	4.20 ft	85.00 ml/min
9/12/2022 9:53 AM	10:00	5.75 pH	22.94 °C	756.31 µS/cm	0.32 mg/L	13.80 NTU	46.0 mV	4.20 ft	85.00 ml/min
9/12/2022 9:58 AM	15:00	5.75 pH	23.18 °C	747.49 µS/cm	0.31 mg/L	11.95 NTU	41.8 mV	4.20 ft	85.00 ml/min
9/12/2022 10:03 AM	20:00	5.74 pH	23.34 °C	739.33 µS/cm	0.28 mg/L	7.00 NTU	43.1 mV	4.20 ft	85.00 ml/min
9/12/2022 10:08 AM	25:00	5.72 pH	23.66 °C	732.77 µS/cm	0.24 mg/L	6.20 NTU	45.1 mV	4.20 ft	85.00 ml/min
9/12/2022 10:13 AM	30:00	5.71 pH	23.45 °C	729.37 µS/cm	0.21 mg/L	5.65 NTU	46.8 mV	4.20 ft	85.00 ml/min
9/12/2022 10:18 AM	35:00	5.71 pH	23.20 °C	730.80 µS/cm	0.20 mg/L	3.97 NTU	46.8 mV	4.20 ft	85.00 ml/min
9/12/2022 10:23 AM	40:00	5.71 pH	23.52 °C	727.49 µS/cm	0.19 mg/L	3.79 NTU	47.1 mV	4.20 ft	85.00 ml/min

Samples

Sample ID:	Description:
B-99	

Low-Flow Test Report:

Test Date / Time: 9/8/2022 12:27:16 PM
Project: Plant Scherer (4)
Operator Name: Mark Mann

Location Name: B116D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 82 ft** **Total Depth: 92.45 ft** **Initial Depth to Water: 44.78 ft**	**Pump Type: bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 88 ft** **Estimated Total Volume Pumped: 3750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
9/8/2022 12:27 PM	00:00	6.16 pH	30.75 °C	113.95 µS/cm	3.47 mg/L	14.10 NTU	39.6 mV	44.78 ft	250.00 ml/min
9/8/2022 12:32 PM	05:00	5.96 pH	20.48 °C	122.82 µS/cm	4.05 mg/L	6.83 NTU	43.5 mV	44.95 ft	250.00 ml/min
9/8/2022 12:37 PM	10:00	5.98 pH	20.57 °C	122.89 µS/cm	4.01 mg/L	4.13 NTU	41.6 mV	45.00 ft	250.00 ml/min
9/8/2022 12:42 PM	15:00	5.97 pH	20.94 °C	123.48 µS/cm	4.06 mg/L	3.05 NTU	41.1 mV	44.98 ft	250.00 ml/min

Samples

Sample ID:	Description:
B-116D	
DUP-2	

Low-Flow Test Report:

Test Date / Time: 9/15/2022 9:51:20 AM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: B-117D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 69.03 ft** **Total Depth: 79.03 ft** **Initial Depth to Water: 30.1 ft**	**Pump Type: bladder** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Pump Intake From TOC: 74 ft** **Estimated Total Volume Pumped: 9000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 1.46 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 1000 %	+/- 0.3	
9/15/2022 9:51 AM	00:00	6.73 pH	21.96 °C	131.37 µS/cm	7.85 mg/L	3.54 NTU	116.5 mV	30.10 ft	200.00 ml/min
9/15/2022 9:56 AM	05:00	5.83 pH	18.93 °C	113.71 µS/cm	1.43 mg/L	4.45 NTU	118.1 mV	30.90 ft	200.00 ml/min
9/15/2022 10:01 AM	10:00	5.73 pH	18.48 °C	114.24 µS/cm	0.94 mg/L	2.62 NTU	134.1 mV	31.30 ft	200.00 ml/min
9/15/2022 10:06 AM	15:00	5.71 pH	18.45 °C	121.45 µS/cm	1.41 mg/L	2.06 NTU	122.8 mV	31.45 ft	200.00 ml/min
9/15/2022 10:11 AM	20:00	5.73 pH	18.35 °C	130.07 µS/cm	1.53 mg/L	1.28 NTU	122.5 mV	31.45 ft	200.00 ml/min
9/15/2022 10:16 AM	25:00	5.77 pH	18.30 °C	140.07 µS/cm	1.51 mg/L	1.09 NTU	121.5 mV	31.45 ft	200.00 ml/min
9/15/2022 10:21 AM	30:00	5.80 pH	18.30 °C	147.84 µS/cm	1.46 mg/L	1.79 NTU	120.5 mV	31.45 ft	200.00 ml/min
9/15/2022 10:26 AM	35:00	5.83 pH	18.35 °C	153.55 µS/cm	1.30 mg/L	2.43 NTU	119.3 mV	31.45 ft	200.00 ml/min
9/15/2022 10:31 AM	40:00	5.85 pH	18.31 °C	155.74 µS/cm	1.23 mg/L	2.05 NTU	118.3 mV	31.56 ft	200.00 ml/min
9/15/2022 10:36 AM	45:00	5.86 pH	18.40 °C	154.14 µS/cm	1.30 mg/L	1.33 NTU	117.8 mV	31.56 ft	200.00 ml/min

Samples

Sample ID:	Description:
B-117D	

Low-Flow Test Report:

Test Date / Time: 9/9/2022 10:10:35 AM
Project: Plant McDonough
Operator Name: M. Mann

Location Name: B118 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 68 ft** **Total Depth: 78.32 ft** **Initial Depth to Water: 52.13 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 73 ft** **Estimated Total Volume Pumped: 22000 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: 851413**

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 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/9/2022 10:10 AM	00:00	6.77 pH	22.17 °C	0.44 µS/cm	8.11 mg/L	17.20 NTU	141.9 mV	52.13 ft	200.00 ml/min
9/9/2022 10:15 AM	05:00	6.49 pH	17.50 °C	89.05 µS/cm	9.44 mg/L	28.50 NTU	87.3 mV	52.09 ft	200.00 ml/min
9/9/2022 10:20 AM	10:00	6.50 pH	17.12 °C	88.60 µS/cm	9.89 mg/L	22.20 NTU	87.1 mV	52.03 ft	200.00 ml/min
9/9/2022 10:25 AM	15:00	6.54 pH	17.05 °C	88.97 µS/cm	9.85 mg/L	18.20 NTU	86.8 mV	52.07 ft	200.00 ml/min
9/9/2022 10:30 AM	20:00	6.54 pH	17.00 °C	90.83 µS/cm	9.84 mg/L	17.30 NTU	86.7 mV	52.04 ft	200.00 ml/min
9/9/2022 10:35 AM	25:00	6.55 pH	17.01 °C	92.35 µS/cm	9.88 mg/L	13.80 NTU	86.7 mV	52.05 ft	200.00 ml/min
9/9/2022 10:40 AM	30:00	6.54 pH	17.03 °C	93.50 µS/cm	10.41 mg/L	13.10 NTU	86.7 mV	52.08 ft	200.00 ml/min
9/9/2022 10:45 AM	35:00	6.53 pH	17.01 °C	94.56 µS/cm	10.26 mg/L	11.80 NTU	86.7 mV	52.09 ft	200.00 ml/min
9/9/2022 10:50 AM	40:00	6.52 pH	17.02 °C	95.20 µS/cm	10.28 mg/L	10.50 NTU	86.8 mV	52.11 ft	200.00 ml/min
9/9/2022 10:55 AM	45:00	6.51 pH	17.03 °C	95.56 µS/cm	10.39 mg/L	9.41 NTU	86.9 mV	52.08 ft	200.00 ml/min
9/9/2022 11:00 AM	50:00	6.51 pH	17.02 °C	95.79 µS/cm	10.55 mg/L	9.19 NTU	87.1 mV	52.07 ft	200.00 ml/min
9/9/2022 11:05 AM	55:00	6.50 pH	17.05 °C	96.01 µS/cm	10.63 mg/L	8.44 NTU	87.3 mV	52.09 ft	200.00 ml/min
9/9/2022 11:10 AM	01:00:00	6.50 pH	17.08 °C	95.13 µS/cm	10.53 mg/L	7.94 NTU	87.4 mV	52.08 ft	200.00 ml/min

9/9/2022 11:15 AM	01:05:00	6.50 pH	17.08 °C	95.02 µS/cm	10.49 mg/L	7.37 NTU	87.8 mV	52.05 ft	200.00 ml/min
9/9/2022 11:20 AM	01:10:00	6.49 pH	17.05 °C	94.82 µS/cm	10.35 mg/L	6.80 NTU	88.1 mV	52.07 ft	200.00 ml/min
9/9/2022 11:25 AM	01:15:00	6.50 pH	17.02 °C	94.37 µS/cm	10.34 mg/L	6.30 NTU	88.4 mV	52.07 ft	200.00 ml/min
9/9/2022 11:30 AM	01:20:00	6.49 pH	17.03 °C	93.85 µS/cm	10.47 mg/L	6.09 NTU	88.8 mV	52.04 ft	200.00 ml/min
9/9/2022 11:35 AM	01:25:00	6.49 pH	17.12 °C	93.62 µS/cm	10.39 mg/L	5.91 NTU	89.0 mV	52.08 ft	200.00 ml/min
9/9/2022 11:40 AM	01:30:00	6.50 pH	17.14 °C	93.63 µS/cm	10.60 mg/L	5.76 NTU	89.3 mV	52.10 ft	200.00 ml/min
9/9/2022 11:45 AM	01:35:00	6.49 pH	17.14 °C	93.09 µS/cm	10.64 mg/L	5.49 NTU	89.6 mV	52.03 ft	200.00 ml/min
9/9/2022 11:50 AM	01:40:00	6.50 pH	17.14 °C	92.83 µS/cm	10.68 mg/L	5.37 NTU	90.0 mV	52.08 ft	200.00 ml/min
9/9/2022 11:55 AM	01:45:00	6.50 pH	17.27 °C	93.17 µS/cm	10.64 mg/L	5.17 NTU	90.2 mV	52.07 ft	200.00 ml/min
9/9/2022 12:00 PM	01:50:00	6.49 pH	17.26 °C	92.95 µS/cm	10.62 mg/L	4.90 NTU	90.7 mV	52.12 ft	200.00 ml/min

Samples

Sample ID:	Description:
B-118	Extra Rad

Low-Flow Test Report:

Test Date / Time: 9/12/2022 9:57:33 AM
Project: Plant McDonough
Operator Name: M. Mann

Location Name: B-119D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 98 ft** **Total Depth: 107.98 ft** **Initial Depth to Water: 47.04 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 103 ft** **Estimated Total Volume Pumped: 6300 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 5.22 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

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 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/12/2022 9:57 AM	00:00	6.44 pH	21.23 °C	135.37 µS/cm	2.83 mg/L	5.29 NTU	21.8 mV	47.04 ft	170.00 ml/min
9/12/2022 10:02 AM	05:00	6.57 pH	17.98 °C	138.48 µS/cm	3.19 mg/L	5.21 NTU	2.2 mV	49.07 ft	170.00 ml/min
9/12/2022 10:07 AM	10:00	6.61 pH	17.68 °C	138.82 µS/cm	4.58 mg/L	4.68 NTU	2.9 mV	50.21 ft	170.00 ml/min
9/12/2022 10:12 AM	15:00	6.61 pH	17.47 °C	138.26 µS/cm	5.10 mg/L	5.03 NTU	7.0 mV	51.16 ft	150.00 ml/min
9/12/2022 10:17 AM	20:00	6.61 pH	17.58 °C	138.84 µS/cm	5.30 mg/L	4.77 NTU	10.9 mV	51.71 ft	150.00 ml/min
9/12/2022 10:22 AM	25:00	6.62 pH	17.99 °C	139.02 µS/cm	5.15 mg/L	3.48 NTU	11.7 mV	51.88 ft	150.00 ml/min
9/12/2022 10:27 AM	30:00	6.59 pH	18.16 °C	136.22 µS/cm	4.47 mg/L	3.21 NTU	11.2 mV	51.99 ft	150.00 ml/min
9/12/2022 10:32 AM	35:00	6.57 pH	17.99 °C	134.61 µS/cm	4.46 mg/L	2.78 NTU	16.8 mV	52.16 ft	150.00 ml/min
9/12/2022 10:37 AM	40:00	6.57 pH	17.91 °C	134.84 µS/cm	4.71 mg/L	2.47 NTU	19.1 mV	52.26 ft	150.00 ml/min

Samples

Sample ID:	Description:
B-119D	

DUP-3	

Low-Flow Test Report:

Test Date / Time: 9/14/2022 10:03:46 AM
Project: Plant McDonough
Operator Name: M. Mann

Location Name: B-122D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 70 ft** **Total Depth: 80.63 ft** **Initial Depth to Water: 31.12 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 75 ft** **Estimated Total Volume Pumped: 4725 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 130 ml/min** **Final Draw Down: 2.4 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/14/2022 10:03 AM	00:00	6.15 pH	24.62 °C	450.12 µS/cm	3.36 mg/L	4.13 NTU	30.0 mV	31.12 ft	185.00 ml/min
9/14/2022 10:08 AM	05:00	6.12 pH	21.55 °C	452.23 µS/cm	0.87 mg/L	2.83 NTU	28.9 mV	32.96 ft	185.00 ml/min
9/14/2022 10:13 AM	10:00	6.11 pH	21.55 °C	455.01 µS/cm	0.61 mg/L	2.35 NTU	23.9 mV	33.80 ft	185.00 ml/min
9/14/2022 10:18 AM	15:00	6.11 pH	21.68 °C	454.27 µS/cm	0.44 mg/L	1.88 NTU	21.0 mV	33.13 ft	130.00 ml/min
9/14/2022 10:23 AM	20:00	6.11 pH	21.59 °C	454.72 µS/cm	0.34 mg/L	1.59 NTU	17.0 mV	33.31 ft	130.00 ml/min
9/14/2022 10:28 AM	25:00	6.11 pH	21.70 °C	454.67 µS/cm	0.29 mg/L	1.17 NTU	15.4 mV	33.49 ft	130.00 ml/min
9/14/2022 10:33 AM	30:00	6.07 pH	21.86 °C	459.33 µS/cm	0.26 mg/L	0.85 NTU	16.9 mV	33.52 ft	130.00 ml/min

Samples

Sample ID:	Description:
B-122D	
EB-4	

Low-Flow Test Report:

Test Date / Time: 9/20/2022 3:20:34 PM
Project: Plant McDonough
Operator Name: M. Mann

Location Name: B-123D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 50 ft** **Top of Screen: 115 ft** **Total Depth: 164.9 ft** **Initial Depth to Water: 120.75 ft**	**Pump Type: reclaimer** **Tubing Type: Polyethylene** **Pump Intake From TOC: 135 ft** **Estimated Total Volume Pumped: 2500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 500 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 851413**

Test Notes:
Over 150 gallons pumped over last 2 days, 52 pumped this day. Redeveloped before sampled.

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	
9/20/2022 3:20 PM	00:00	7.16 pH	21.55 °C	818.13 µS/cm	8.58 mg/L	3.91 NTU	0.4 mV	120.75 ft	500.00 ml/min
9/20/2022 3:25 PM	05:00	7.13 pH	21.87 °C	817.85 µS/cm	8.47 mg/L	4.57 NTU	4.9 mV	120.75 ft	500.00 ml/min

Samples

Sample ID:	Description:
B-123D	

Low-Flow Test Report:

Test Date / Time: 9/8/2022 2:47:54 PM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: SW-1	**Pump Type: grab** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Flow Cell Volume: 90 ml**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3
9/8/2022 2:46 PM	00:00	6.71 pH	82.60 °F	0.45 µS/cm	3.19 mg/L	9.43 NTU	87.8 mV	
9/8/2022 2:47 PM	01:00	6.70 pH	80.98 °F	0.46 µS/cm	3.12 mg/L	9.43 NTU	90.1 mV	

Samples

Sample ID:	Description:
SW-1	

Low-Flow Test Report:

Test Date / Time: 9/8/2022 3:22:10 PM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: SW-2	**Pump Type: grab** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Flow Cell Volume: 90 ml**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3
9/8/2022 3:22 PM	00:00	7.11 pH	76.86 °F	0.22 µS/cm	6.08 mg/L	3.05 NTU	98.0 mV	
9/8/2022 3:23 PM	01:00	7.10 pH	76.61 °F	0.22 µS/cm	6.11 mg/L	3.05 NTU	92.8 mV	

Samples

Sample ID:	Description:
SW-2	

Low-Flow Test Report:

Test Date / Time: 9/8/2022 3:42:23 PM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: SW-3	**Pump Type: grab** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Flow Cell Volume: 90 ml**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3
9/8/2022 3:42 PM	00:00	7.12 pH	75.79 °F	0.23 µS/cm	6.82 mg/L	2.29 NTU	67.6 mV	
9/8/2022 3:43 PM	01:00	7.13 pH	75.33 °F	0.23 µS/cm	6.86 mg/L	2.29 NTU	64.8 mV	

Samples

Sample ID:	Description:
SW-3	

Low-Flow Test Report:

Test Date / Time: 9/13/2022 9:14:41 AM
Project: Plant McDonough
Operator Name: Jude Waguespack

Location Name: SW-4	**Pump Type: grab** **Tubing Inner Diameter: 0.175 cm** **Tubing Length: 42 m** **Flow Cell Volume: 90 ml**	**Instrument Used: Aqua TROLL 400** **Serial Number: 728541**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3
9/13/2022 9:14 AM	00:00	6.60 pH	18.48 °C	444.38 µS/cm	6.92 mg/L	8.77 NTU	182.9 mV	
9/13/2022 9:15 AM	01:00	6.61 pH	18.61 °C	444.64 µS/cm	6.84 mg/L	8.77 NTU	187.6 mV	

Samples

Sample ID:	Description:
SW-4	

APPENIDIX A

Instrument Calibration Forms

Daily Calibration Log

Project Plant McDonough **Incude daily mid-day pH check**
Field Staff J. Waguespack, M. Mann, J. Booth, A. Plowman, D. Fulton

Instrument Calibration

			Date:	9/7/22		9/7/22	
			Time:	7:54		10:15	
Parameter	**Units**	**Standard**	**AquaTROLL SN 884187 iPad # 80**	**Mid-Day pH**	**AquaTROLL SN 728541 iPad # 76**	**Mid-Day pH**
DO	% saturation	100	95.61	-------	101.81	-------
Conductivity	us/cm	4490	4795.7	-------	4416.8	-------
pH	S.U.	4.00	4.08		4.19	
pH	S.U.	7.00	7.12		7.26	
pH	S.U.	10.00	10.15		10.08	
ORP	mV	228.00	221.2	-------	221.7	-------

	Units	**Standard**	**Hach SN 140800034447**	**Hach SN**	**Hach SN**	**Hach SN**
Turbidity	NTU	20	19.5			
	NTU	100	99.9			
	NTU	800	794			
	NTU	10.0	9.88			

			Date:	9/8/22		9/9/22	
			Time:	0815		755	
Parameter	**Units**	**Standard**	**AquaTROLL SN 728541 iPad # 76**	**Mid-Day pH**	**AquaTROLL SN 728541 iPad # 76**	**Mid-Day pH**
DO	% saturation	100	107.23	-------	94.15	-------
Conductivity	us/cm	4490	4516.6	-------	4400	-------
pH	S.U.	4.00	3.99		4.03	
pH	S.U.	7.00	7.02		6.99	
pH	S.U.	10.00	9.97		9.95	
ORP	mV	228.00	226.9	-------	229.5	-------

	Units	**Standard**	**Hach SN 140800034447**	**Hach SN**	**Hach SN 140800034447**	**Hach SN**
Turbidity	NTU	20	21.7		20.5	
	NTU	100	101		104	
	NTU	800	791		801	
	NTU	10.0	10.2		9.97	

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

July/August 2022

Daily Calibration Log

GL166849621.002

Incude daily mid-day pH check

Project Plant McDonough
Field Staff J. Waguespack, M. Mann, D. Fulton

Instrument Calibration

			Date:	9/12/22		09/13/22	
			Time:	8:27	10:39	7:32	
Parameter	**Units**	**Standard**	**AquaTROLL SN 728541 iPad # 76**	**Mid-Day pH**	**AquaTROLL SN _____ iPad # _____**	**Mid-Day pH**
DO	% saturation	100	99.14	-------	101.52	-------
Conductivity	us/cm	4490	4610	4436.0	4478.1	-------
pH	S.U.	4.00	4.05		4.03	
pH	S.U.	7.00	7.02		7.04	
pH	S.U.	10.00	10.02		10.04	
ORP	mV	228.00	227.1	-------	234.1	-------

	Units	**Standard**	**Hach SN 140800034447**	**Hach SN _____**	**Hach SN _____**	**Hach SN _____**
Turbidity	NTU	20	19.5			
	NTU	100	98.4			
	NTU	800	800			
	NTU	10.0	9.87	10.1		

			Date:	9/15/22		9/16/22	
			Time:	7:46		7:47	
Parameter	**Units**	**Standard**	**AquaTROLL SN 728541 iPad # 76**	**Mid-Day pH**	**AquaTROLL SN 728541 iPad # 76**	**Mid-Day pH**
DO	% saturation	100	100.80	-------	100.40	-------
Conductivity	us/cm	4490	4559.7	-------	4443.6	-------
pH	S.U.	4.00	4.04		4.02	
pH	S.U.	7.00	7.02		7.02	
pH	S.U.	10.00	10.04		10.08	
ORP	mV	228.00	231.0	-------	233.7	-------

	Units	**Standard**	**Hach SN 140800034447**	**Hach SN _____**	**Hach SN 140800034447**	**Hach SN _____**
Turbidity	NTU	20	19.5		20.2	
	NTU	100	99.5		98.7	
	NTU	800	789		803	
	NTU	10.0	10.6		10.3	

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

Daily Calibration Log

Project Plant McDonough **Incude daily mid-day pH check**
Field Staff J. Waguespack, M. Mann, J. Booth, A. Plowman, D. Fulton

Instrument Calibration

			Date:	9/19/22		9/20/22	
			Time:	8:19		8:40	
Parameter	**Units**	**Standard**	**AquaTROLL SN 728541 iPad # 76**	**Mid-Day pH**	**AquaTROLL SN 728541 iPad # 76**	**Mid-Day pH**
DO	% saturation	100	101.45	-------	99.58	-------
Conductivity	us/cm	4490	4651.9	-------	4415.8	-------
pH	S.U.	4.00	4.04		4.02	
pH	S.U.	7.00	7.02		6.98	
pH	S.U.	10.00	9.99		10.00	
ORP	mV	228.00	218.6	-------	223.7	-------

	Units	**Standard**	**Hach SN 14080C034447**	**Hach SN**	**Hach SN 14080C034447**	**Hach SN**
Turbidity	NTU	20	20.0		19.1	
	NTU	100	98.1		101	
	NTU	800	796		804	
	NTU	10.0	10.0		10.3	

			Date:				
			Time:				
Parameter	**Units**	**Standard**	**AquaTROLL SN _____ iPad # _____**	**Mid-Day pH**	**AquaTROLL 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**	**Hach SN**	**Hach SN**	**Hach SN**	**Hach SN**
Turbidity	NTU	20				
	NTU	100				
	NTU	800				
	NTU	10.0				

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

July/August 2022

Daily Calibration Log

GL166849621.002

DUANE FULTON

Project Plant McDonough **Incude daily mid-day pH check**
Field Staff J. Waguespack, M. Mann, ~~J. Booth, A. Plowman~~, D. Fulton

Instrument Calibration

			Date:	09/07/22		09/08/22	
			Time:	06:30		10:06	13:52
Parameter	**Units**	**Standard**	AquaTROLL SN 883533 iPad # 111	**Mid-Day pH**	AquaTROLL SN 883533 iPad # 111	**Mid-Day pH**	
DO	% saturation	100	101	-------	101.97	-------	
Conductivity	us/cm	4490	4586.5	-------	4,352.5	-------	
pH	S.U.	4.00	4.11	4.08	3.99	4.05	
pH	S.U.	7.00	7.11	7.05	6.97	6.98	
pH	S.U.	10.00	10.11	9.94	9.85	9.98	
ORP	mV	228.00	219.4	-------	229.4	-------	
			~~LA MOTFC~~		~~LA MOTFC~~	~~LA MOTFC~~	
Turbidity	**Units**	**Standard**	~~Hach~~ SN	**Hach SN**	~~Hach~~ SN M36-3911	~~Hach~~ SN M36-3911	
	NTU	20	19.1	—	0 / 0.5	0 / 0.3	
	NTU	100	99.7	—	1 / 1.1	1 / 0.98	
	NTU	800	794	—	10 / 9.7	10 / 9.9	
	NTU	10.0	9.7	—			

			Date:	09/12/22		09/12/22	
			Time:	07:00	12:30	14:50	
Parameter	**Units**	**Standard**	AquaTROLL SN 883533 iPad # 111	**Mid-Day pH**	AquaTROLL SN 883533 iPad # 111	**Mid-Day pH**	
DO	% saturation	100	~~230.3~~ 99.6	-------		-------	
Conductivity	us/cm	4490	4417.7	4552.1		-------	
pH	S.U.	4.00	3.98	4.05	4.04		
pH	S.U.	7.00	6.98	7.03	6.96		
pH	S.U.	10.00	9.98	10.05	9.96		
ORP	mV	228.00	230.3	-------		-------	
				~~LA MOTFC~~			
Turbidity	**Units**	**Standard**	~~Hach~~ SN M36-3911	**Hach SN**	**Hach SN**	**Hach SN**	
	NTU	~~20~~ 0	0.05				
	NTU	~~100~~ 1	0.96				
	NTU	~~800~~ 10	9.92				
	NTU	10.0					

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

July/August 2022

Daily Calibration Log

DUANE FULTON

GL166849621.002

Incude daily mid-day pH check

Project Plant McDonough
Field Staff J. Waguespack, M. Mann, D. Fulton

Instrument Calibration

			Date: 09/13/22			
			Time: 06:45	15:00		
Parameter	**Units**	**Standard**	**AquaTROLL SN 883533 iPad # 11**	**Mid-Day pH**	**AquaTROLL SN _____ iPad # _____**	**Mid-Day pH**
DO	% saturation	100	99.2	-------		-------
Conductivity	us/cm	4490	4419.0	-------		-------
pH	S.U.	4.00	3.94	4.06		
pH	S.U.	7.00	7.00	7.03		
pH	S.U.	10.00	9.98	9.99		
ORP	mV	228.00	236.2	-------		-------

			~~Lamotte~~ Hach SN 1438-391			
Turbidity	**Units**	**Standard**	**Hach SN _____**	**Hach SN _____**	**Hach SN _____**	**Hach SN _____**
	NTU	~~20~~ 0	0.0			
	NTU	~~100~~ 1	0.57			
	NTU	~~800~~ 10	10.51			
	NTU	~~10.0~~				

			Date:			
			Time:			
Parameter	**Units**	**Standard**	**AquaTROLL SN _____ iPad # _____**	**Mid-Day pH**	**AquaTROLL 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**	**Hach SN _____**	**Hach SN _____**	**Hach SN _____**	**Hach SN _____**
	NTU	20				
	NTU	100				
	NTU	800				
	NTU	10.0				

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

Project Plant McDonough ***Incude daily mid-day pH check***
Field Staff J. Waguespack, M. Mann, J. Booth, A. Plowman, D. Fulton

Instrument Calibration

		Date:	09/15/22			
		Time:	07:20	12:15		
Parameter	**Units**	**Standard**	**AquaTROLL SN 883532 iPad # 111**	**Mid-Day pH**	**AquaTROLL SN 883533 iPad # 111**	**Mid-Day pH**
DO	% saturation	100	~~98~~ 100.9	-------	99.49	-------
Conductivity	us/cm	4490	4499	-------	4493.5	-------
pH	S.U.	4.00	3.96	4.09	3.90	
pH	S.U.	7.00	6.94	7.06	7.11	
pH	S.U.	10.00	9.98	10.05	10.23	
ORP	mV	228.00	231	-------	227.5	-------

			~~Hach~~ SN 1438-3911	~~Hach~~ SN 1438-2911	Hach SN _____	Hach SN _____
Turbidity	NTU	~~20~~ 0	0.25	0.34		
	NTU	~~100~~ 1	1.03	1.03		
	NTU	~~800~~ 10	9.85	10.34		
	NTU	~~10.0~~	—			

		Date:				
		Time:				
Parameter	**Units**	**Standard**	**AquaTROLL SN _____ iPad # _____**	**Mid-Day pH**	**AquaTROLL 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		-------		-------

			Hach SN _____	Hach SN _____	Hach SN _____	Hach SN _____
Turbidity	NTU	20				
	NTU	100				
	NTU	800				
	NTU	10.0				

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

Daily Calibration Log

Project Plant McDonough **Incude daily mid-day pH check**
Field Staff J. Waguespack, M. Mann, J. Booth, A. Plowman, D. Fulton

Instrument Calibration

			Date:	09/08/2022		09/09/2022	
			Time:	10:59		07:55	
Parameter	**Units**	**Standard**	**AquaTROLL SN 851413 iPad # 55**	**Mid-Day pH**	**AquaTROLL SN 851413 iPad # 55**	**Mid-Day pH**
DO	% saturation	100	108.89	-------	98.50	-------
Conductivity	us/cm	4490	4655.7	-------	4456.1	-------
pH	S.U.	4.00	4.13		4.03	
pH	S.U.	7.00	7.00		7.00	
pH	S.U.	10.00	10.00		10.06	
ORP	mV	228.00	226.8	-------	218.0	-------

	Units	**Standard**	**Hach SN 21010D000165**	**Hach SN**	**Hach SN 21010D000165**	**Hach SN**
Turbidity	NTU	20	19.2		20.0	
	NTU	100	100		101	
	NTU	800	859		806	
	NTU	10.0	9.89		9.94	

			Date:	09/12/2022		09/19/2022	
			Time:	07:40		07:42	
Parameter	**Units**	**Standard**	**AquaTROLL SN 851413 iPad # 55**	**Mid-Day pH**	**AquaTROLL SN 851413 iPad # 55**	**Mid-Day pH**
DO	% saturation	100	101.76	-------	102.54	-------
Conductivity	us/cm	4490	4421.2	-------	4499.6	-------
pH	S.U.	4.00	4.00		4.05	
pH	S.U.	7.00	6.98		7.00	
pH	S.U.	10.00	9.93		10.00	
ORP	mV	228.00	222.4	-------	220.8	-------

	Units	**Standard**	**Hach SN 21010D000165**	**Hach SN**	**Hach SN 21010D000165**	**Hach SN**
Turbidity	NTU	20	20.6		19.5	
	NTU	100	100		99.7	
	NTU	800	796		799	
	NTU	10.0	9.58		10.2	

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

July/August 2022

Daily Calibration Log

GL166849621.002

Incude daily mid-day pH check

Project Plant McDonough
Field Staff J. Waguespack, M. Mann, D. Fulton

Instrument Calibration

			Date:		09/13/22		09/14/22	
			Time:		07:24		07:30	
Parameter	**Units**	**Standard**	**AquaTROLL SN 851413 iPad # 55**	**Mid-Day pH**	**AquaTROLL SN 851413 iPad # 55**	**Mid-Day pH**
DO	% saturation	100	94.24	-------	101.51	-------
Conductivity	us/cm	4490	4427.8	-------	4481.1	-------
pH	S.U.	4.00	4.01		4.03	
pH	S.U.	7.00	6.99		7.02	
pH	S.U.	10.00	9.99		10.06	
ORP	mV	228.00	225.7	-------	224.8	-------

	Units	**Standard**	**Hach SN 21010D000165**	**Hach SN**	**Hach SN 21010D000165**	**Hach SN**
Turbidity	NTU	20	19.9		19.8	
	NTU	100	101		100	
	NTU	800	807		802	
	NTU	10.0	9.66		9.98	

			Date:		09/15/22		09/16/22	
			Time:		07:27		07:22	
Parameter	**Units**	**Standard**	**AquaTROLL SN 851413 iPad # 55**	**Mid-Day pH**	**AquaTROLL SN 851413 iPad # 55**	**Mid-Day pH**
DO	% saturation	100	100.63	-------	99.10	-------
Conductivity	us/cm	4490	4452.6	-------	4465.3	-------
pH	S.U.	4.00	4.02		4.03	
pH	S.U.	7.00	6.99		6.99	
pH	S.U.	10.00	9.96		9.97	
ORP	mV	228.00	218.2	-------	221.8	-------

	Units	**Standard**	**Hach SN 21010D000165**	**Hach SN**	**Hach SN 21010D000165**	**Hach SN**
Turbidity	NTU	20	19.5		20.2	
	NTU	100	98.6		99.8	
	NTU	800	800		794	
	NTU	10.0	10.1		10.2	

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

Daily Calibration Log

Project Plant McDonough **Incude daily mid-day pH check**
Field Staff J. Waguespack, M. Mann, J. Booth, A. Plowman, D. Fulton

COLE MAHER

Instrument Calibration

			Date: 9-7-22		9-8-2022	
			Time: 0820		0747	
Parameter	Units	Standard	AquaTROLL SN 843285 iPad # ____	Mid-Day pH	AquaTROLL SN 884187 iPad # 80	Mid-Day pH
DO	% saturation	100		-------	105.67	-------
Conductivity	us/cm	4490	4765	-------	4037.6	-------
pH	S.U.	4.00	4.10		3.87	
pH	S.U.	7.00	7.06		7.02	
pH	S.U.	10.00			10.00	
ORP	mV	228.00		-------	231.3	-------

	Units	Standard	Hach SN 7007-14116	Hach SN ____	Hach SN 7007-14116	Hach SN ____
Turbidity	NTU	~~20~~ 1	1.16		1.83	
	NTU	100				
	NTU	800				
	NTU	10.0	7.43		9.43	

			Date:	9-9-2022		
			Time:	0740		
Parameter	Units	Standard	AquaTROLL SN 884187 iPad # 80	Mid-Day pH	AquaTROLL SN ____ iPad # ____	Mid-Day pH
DO	% saturation	100	100.08	-------		-------
Conductivity	us/cm	4490	4510	-------		-------
pH	S.U.	4.00	4.04			
pH	S.U.	7.00	7.02			
pH	S.U.	10.00	9.99			
ORP	mV	228.00	226.0	-------		-------

	Units	Standard	Hach SN 7007-14116	Hach SN ____	Hach SN ____	Hach SN ____
Turbidity	NTU	~~20~~ 1	0.94			
	NTU	100				
	NTU	800				
	NTU	10.0	8.90			

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

AquaTroll Unit malfunctioning (9-7-2022) SN 843285

Daily Calibration Log

Incude daily mid-day pH check

Project Plant McDonough
Field Staff J. Waguespack, M. Mann, D. Fulton Cole Mayer

Instrument Calibration

			Date:	09/13/2022		09/14/2022	
			Time:	0740		0730	
Parameter	**Units**	**Standard**	**AquaTROLL SN 884187 iPad # 80**	**Mid-Day pH**	**AquaTROLL SN 884187 iPad # 80**	**Mid-Day pH**
DO	% saturation	100	91.76	-------	100.65	-------
Conductivity	us/cm	4490	4494.5	-------	4510	-------
pH	S.U.	4.00	4.06		4.02	
pH	S.U.	7.00	6.99		7.02	
pH	S.U.	10.00	10.06		9.99	
ORP	mV	228.00	239.2	-------	233.1	-------

	Units	**Standard**	**Hach SN 2007-144746**	**Hach SN**	**Hach SN 2007-144746**	**Hach SN**
Turbidity	NTU	1	1.28		1.27	
	NTU	100				
	NTU	800				
	NTU	10.0	10.0		10.04	

			Date:	09/14/2022		9/15/2022	
			Time:	0745		0725	
Parameter	**Units**	**Standard**	**AquaTROLL SN 728541 iPad # 76**	**Mid-Day pH**	**AquaTROLL SN 884187 iPad # 80**	**Mid-Day pH**
DO	% saturation	100	97.66	-------	98.51	-------
Conductivity	us/cm	4490	4513.0	-------	4480	-------
pH	S.U.	4.00	4.01		4.02	
pH	S.U.	7.00	7.02		7.02	
pH	S.U.	10.00	9.98		10.03	
ORP	mV	228.00	223.6	-------	227.0	-------

	Units	**Standard**	**Hach SN 14080802 4447**	**Hach SN**	**Hach SN**	**Hach SN**
Turbidity	NTU	20	20.6	1 NTV	1.55	
	NTU	100	102			
	NTU	800	809			
	NTU	10.0	10.2	10 NTV	9.63	

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

July/August 2022

Daily Calibration Log

GL166849621.002

Project Plant McDonough **Incude daily mid-day pH check**
Field Staff J. Waguespack, M. Mann, J. Booth, A. Plowman, D. Fulton

COLE MAYER

Instrument Calibration

			Date: 09/16/2022			
			Time: 0725			
Parameter	**Units**	**Standard**	**AquaTROLL SN 884187 iPad # 80**	**Mid-Day pH**	**AquaTROLL SN _____ iPad # _____**	**Mid-Day pH**
DO	% saturation	100	100.89	-------		-------
Conductivity	us/cm	4490	4449.2	-------		-------
pH	S.U.	4.00	4.02			
pH	S.U.	7.00	7.01			
pH	S.U.	10.00	10.04			
ORP	mV	228.00	226.3	-------		-------

	Units	**Standard**	**Hach SN 7007446**	**Hach SN _____**	**Hach SN _____**	**Hach SN _____**
Turbidity	NTU	~~20~~ 1	1.17			
	NTU	100				
	NTU	800				
	NTU	10.0	10.0			

			Date:			
			Time:			
Parameter	**Units**	**Standard**	**AquaTROLL SN _____ iPad # _____**	**Mid-Day pH**	**AquaTROLL 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**	**Hach SN _____**	**Hach SN _____**	**Hach SN _____**	**Hach SN _____**
Turbidity	NTU	20				
	NTU	100				
	NTU	800				
	NTU	10.0				

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

APPENDIX B

Laboratory Analytical Data, Data Validation Summary and Laboratory Accreditation

APPENDIX B

Laboratory Analytical Data

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

November 10, 2022

Andrea McClure
WSP/Golder
5170 Peachtree Road
Building 100, Suite 300
Atlanta, GA 30341

RE: Project: McDonough Upgradient Wells-Revised Report
Pace Project No.: 92624376

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between September 08, 2022 and September 09, 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

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

Sincerely,

Nicole D'Oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Stephen Benda, Southern Company
Noelia Gangi, Georgia Power
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Karim Minkara, Golder Associates - Atlanta
J. Shelby Mobley, Southern Company
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Michael Smilley, Georgia Power
Yong Cheng Soo, WSP/Golder
Tina Sullivan, ERM

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: McDonough Upgradient Wells-Revised Report
Pace Project No.: 92624376

Pace Analytical Services Charlotte
South Carolina Laboratory ID: 99006
9800 Kincey 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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: McDonough Upgradient Wells-Revised Report
Pace Project No.: 92624376

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92624376001	**DGWA-70A**	Water	09/07/22 09:35	09/08/22 09:45
92624376002	**DGWA-71**	Water	09/07/22 10:24	09/08/22 09:45
92624376003	**DGWA-53**	Water	09/08/22 13:28	09/09/22 15:50

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: McDonough Upgradient Wells-Revised Report
Pace Project No.: 92624376

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92624376001	**DGWA-70A**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92624376002	**DGWA-71**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92624376003	**DGWA-53**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough Upgradient Wells-Revised Report
Pace Project No.: 92624376

Sample: DGWA-70A **Lab ID: 92624376001** Collected: 09/07/22 09:35 Received: 09/08/22 09:45 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		09/08/22 13:35		
pH	**5.60**	Std. Units			1		09/08/22 13:35		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/21/22 12:19	09/21/22 20:31	7439-89-6	
Potassium	**1.6**	mg/L	0.20	0.15	1	09/21/22 12:19	09/21/22 20:31	7440-09-7	
Sodium	**3.4**	mg/L	1.0	0.58	1	09/21/22 12:19	09/21/22 20:31	7440-23-5	
Calcium	**5.9**	mg/L	1.0	0.12	1	09/21/22 12:19	09/21/22 20:31	7440-70-2	
Magnesium	**2.3**	mg/L	0.050	0.012	1	09/21/22 12:19	09/21/22 20:31	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	09/21/22 13:49	09/24/22 15:49	7440-36-0	
Arsenic	**0.0024J**	mg/L	0.0050	0.0022	1	09/21/22 13:49	09/24/22 15:49	7440-38-2	
Barium	**0.039**	mg/L	0.0050	0.00067	1	09/21/22 13:49	09/24/22 15:49	7440-39-3	
Beryllium	**0.000084J**	mg/L	0.00050	0.000054	1	09/21/22 13:49	09/24/22 15:49	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/21/22 13:49	09/24/22 15:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/21/22 13:49	09/24/22 15:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/22 13:49	09/24/22 15:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/21/22 13:49	09/24/22 15:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/22 13:49	09/24/22 15:49	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/21/22 13:49	09/24/22 15:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/22 13:49	09/24/22 15:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/22 13:49	09/24/22 15:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/22 13:49	09/24/22 15:49	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/22/22 14:00	09/22/22 17:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**34.0**	mg/L	25.0	10.0	1		09/09/22 15:04		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**27.6**	mg/L	5.0	5.0	1		09/14/22 16:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/22 16:12		
Alkalinity, Total as CaCO3	**27.6**	mg/L	5.0	5.0	1		09/14/22 16:12		
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		09/09/22 23:55	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough Upgradient Wells-Revised Report
Pace Project No.: 92624376

Sample: DGWA-70A **Lab ID: 92624376001** Collected: 09/07/22 09:35 Received: 09/08/22 09:45 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								
Fluoride	**0.061J**	mg/L	0.10	0.050	1		09/09/22 23:55	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/09/22 23:55	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough Upgradient Wells-Revised Report
Pace Project No.: 92624376

Sample: DGWA-71 **Lab ID: 92624376002** Collected: 09/07/22 10:24 Received: 09/08/22 09:45 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		09/08/22 13:36		
pH	**5.65**	Std. Units			1		09/08/22 13:36		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/21/22 12:19	09/21/22 20:36	7439-89-6	
Potassium	**0.76**	mg/L	0.20	0.15	1	09/21/22 12:19	09/21/22 20:36	7440-09-7	
Sodium	**8.1**	mg/L	1.0	0.58	1	09/21/22 12:19	09/21/22 20:36	7440-23-5	
Calcium	**6.4**	mg/L	1.0	0.12	1	09/21/22 12:19	09/21/22 20:36	7440-70-2	
Magnesium	**0.87**	mg/L	0.050	0.012	1	09/21/22 12:19	09/21/22 20:36	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/21/22 13:49	09/24/22 15:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/21/22 13:49	09/24/22 15:55	7440-38-2	
Barium	**0.025**	mg/L	0.0050	0.00067	1	09/21/22 13:49	09/24/22 15:55	7440-39-3	
Beryllium	**0.000075J**	mg/L	0.00050	0.000054	1	09/21/22 13:49	09/24/22 15:55	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/21/22 13:49	09/24/22 15:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/21/22 13:49	09/24/22 15:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/22 13:49	09/24/22 15:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/21/22 13:49	09/24/22 15:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/22 13:49	09/24/22 15:55	7439-92-1	
Lithium	**0.0012J**	mg/L	0.030	0.00073	1	09/21/22 13:49	09/24/22 15:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/22 13:49	09/24/22 15:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/22 13:49	09/24/22 15:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/22 13:49	09/24/22 15:55	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00013J**	mg/L	0.00020	0.00013	1	09/22/22 14:00	09/22/22 17:48	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**82.0**	mg/L	25.0	10.0	1		09/09/22 15:04		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**16.0**	mg/L	5.0	5.0	1		09/14/22 16:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/22 16:28		
Alkalinity, Total as CaCO3	**16.0**	mg/L	5.0	5.0	1		09/14/22 16:28		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.2**	mg/L	1.0	0.60	1		09/10/22 00:09	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough Upgradient Wells-Revised Report
Pace Project No.: 92624376

Sample: DGWA-71 **Lab ID: 92624376002** Collected: 09/07/22 10:24 Received: 09/08/22 09:45 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								
Fluoride	**0.056J**	mg/L	0.10	0.050	1		09/10/22 00:09	16984-48-8	
Sulfate	**7.0**	mg/L	1.0	0.50	1		09/10/22 00:09	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough Upgradient Wells-Revised Report
Pace Project No.: 92624376

Sample: DGWA-53 **Lab ID: 92624376003** Collected: 09/08/22 13:28 Received: 09/09/22 15:50 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		09/09/22 17:33		
pH	**6.32**	Std. Units			1		09/09/22 17:33		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**5.4**	mg/L	0.040	0.025	1	09/21/22 12:19	09/21/22 21:24	7439-89-6	
Sodium	**7.3**	mg/L	1.0	0.58	1	09/21/22 12:19	09/21/22 21:24	7440-23-5	
Calcium	**17.2**	mg/L	1.0	0.12	1	09/21/22 12:19	09/21/22 21:24	7440-70-2	
Magnesium	**5.8**	mg/L	0.050	0.012	1	09/21/22 12:19	09/21/22 21:24	7439-95-4	
Potassium	**3.6**	mg/L	0.20	0.15	1	09/21/22 12:19	09/22/22 21:10	7440-09-7	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/21/22 13:49	09/24/22 16:13	7440-36-0	
Arsenic	**0.0029J**	mg/L	0.0050	0.0022	1	09/21/22 13:49	09/24/22 16:13	7440-38-2	
Barium	**0.077**	mg/L	0.0050	0.00067	1	09/21/22 13:49	09/24/22 16:13	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/21/22 13:49	09/24/22 16:13	7440-41-7	
Boron	**0.054**	mg/L	0.040	0.0086	1	09/21/22 13:49	09/26/22 14:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/21/22 13:49	09/24/22 16:13	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/22 13:49	09/24/22 16:13	7440-47-3	
Cobalt	**0.012**	mg/L	0.0050	0.00039	1	09/21/22 13:49	09/24/22 16:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/22 13:49	09/24/22 16:13	7439-92-1	
Lithium	**0.0083J**	mg/L	0.030	0.00073	1	09/21/22 13:49	09/24/22 16:13	7439-93-2	
Molybdenum	**0.027**	mg/L	0.010	0.00074	1	09/21/22 13:49	09/24/22 16:13	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/22 13:49	09/24/22 16:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/22 13:49	09/24/22 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	09/22/22 14:00	09/22/22 17:51	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**129**	mg/L	25.0	10.0	1		09/14/22 12:26		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**78.6**	mg/L	5.0	5.0	1		09/14/22 17:49		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/22 17:49		
Alkalinity, Total as CaCO3	**78.6**	mg/L	5.0	5.0	1		09/14/22 17:49		
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		09/13/22 19:42	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough Upgradient Wells-Revised Report
Pace Project No.: 92624376

Sample: DGWA-53 **Lab ID: 92624376003** Collected: 09/08/22 13:28 Received: 09/09/22 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.11**	mg/L	0.10	0.050	1		09/13/22 19:42	16984-48-8	
Sulfate	**12.0**	mg/L	1.0	0.50	1		09/13/22 19:42	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough Upgradient Wells-Revised Report
Pace Project No.: 92624376

QC Batch: 724698
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92624376001, 92624376002, 92624376003

METHOD BLANK: 3775652 Matrix: Water
Associated Lab Samples: 92624376001, 92624376002, 92624376003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/21/22 19:48	
Iron	mg/L	ND	0.040	0.025	09/21/22 19:48	
Magnesium	mg/L	ND	0.050	0.012	09/21/22 19:48	
Potassium	mg/L	ND	0.20	0.15	09/21/22 19:48	
Sodium	mg/L	ND	1.0	0.58	09/21/22 19:48	

LABORATORY CONTROL SAMPLE: 3775653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Iron	mg/L	1	1.0	101	80-120	
Magnesium	mg/L	1	1.0	104	80-120	
Potassium	mg/L	1	1.0	103	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775654 3775655

Parameter	Units	92624373001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	73.2	1	1	71.7	72.8	-152	-37	75-125	2	20	M1
Iron	mg/L	1.9	1	1	2.9	2.9	101	100	75-125	0	20	
Magnesium	mg/L	25.2	1	1	25.7	25.7	49	52	75-125	0	20	M1
Potassium	mg/L	8.2	1	1	9.0	9.1	75	90	75-125	2	20	
Sodium	mg/L	19.9	1	1	20.3	20.6	38	68	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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough Upgradient Wells-Revised Report
Pace Project No.: 92624376

QC Batch: 724800
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92624376001, 92624376002, 92624376003

METHOD BLANK: 3776150 Matrix: Water
Associated Lab Samples: 92624376001, 92624376002, 92624376003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/24/22 14:20	
Arsenic	mg/L	ND	0.0050	0.0022	09/24/22 14:20	
Barium	mg/L	ND	0.0050	0.00067	09/24/22 14:20	
Beryllium	mg/L	ND	0.00050	0.000054	09/24/22 14:20	
Boron	mg/L	ND	0.040	0.0086	09/24/22 14:20	
Cadmium	mg/L	ND	0.00050	0.00011	09/24/22 14:20	
Chromium	mg/L	ND	0.0050	0.0011	09/24/22 14:20	
Cobalt	mg/L	ND	0.0050	0.00039	09/24/22 14:20	
Lead	mg/L	ND	0.0010	0.00089	09/24/22 14:20	
Lithium	mg/L	ND	0.030	0.00073	09/24/22 14:20	
Molybdenum	mg/L	ND	0.010	0.00074	09/24/22 14:20	
Selenium	mg/L	ND	0.0050	0.0014	09/24/22 14:20	
Thallium	mg/L	ND	0.0010	0.00018	09/24/22 14:20	

LABORATORY CONTROL SAMPLE: 3776151

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	105	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.1	107	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3776152 3776153

Parameter	Units	92625866027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	106	109	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	99	101	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough Upgradient Wells-Revised Report
Pace Project No.: 92624376

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3776152 3776153

Parameter	Units	92625866027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	14.6 ug/L	0.1	0.1	0.12	0.12	102	102	75-125	0	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	1	20	
Boron	mg/L	393 ug/L	1	1	1.6	1.6	116	116	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Chromium	mg/L	22.8 ug/L	0.1	0.1	0.13	0.14	112	118	75-125	4	20	
Cobalt	mg/L	0.44J ug/L	0.1	0.1	0.098	0.10	98	101	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.098	94	98	75-125	4	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	100	105	75-125	5	20	
Selenium	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.095	0.099	95	99	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough Upgradient Wells-Revised Report
Pace Project No.: 92624376

QC Batch: 724426
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92624376001, 92624376002, 92624376003

METHOD BLANK: 3774367 Matrix: Water
Associated Lab Samples: 92624376001, 92624376002, 92624376003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/22/22 17:16	

LABORATORY CONTROL SAMPLE: 3774368

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774369 3774370

Parameter	Units	92624373001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.00014J	0.0025	0.0025	0.0025	0.0025	93	93	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough Upgradient Wells-Revised Report
Pace Project No.: 92624376

QC Batch: 722447
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92624376001, 92624376002

METHOD BLANK: 3764210 Matrix: Water
Associated Lab Samples: 92624376001, 92624376002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/09/22 14:58	

LABORATORY CONTROL SAMPLE: 3764211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	382	96	80-120	

SAMPLE DUPLICATE: 3764212

Parameter	Units	92623815001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	351	346	1	10	

SAMPLE DUPLICATE: 3764213

Parameter	Units	92624372006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	102	107	5	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough Upgradient Wells-Revised Report
Pace Project No.: 92624376

QC Batch: 722879
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92624376003

METHOD BLANK: 3766430 Matrix: Water
Associated Lab Samples: 92624376003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/14/22 12:25	

LABORATORY CONTROL SAMPLE: 3766431

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	383	96	80-120	

SAMPLE DUPLICATE: 3766432

Parameter	Units	92624372008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	261	266	2	10	

SAMPLE DUPLICATE: 3766433

Parameter	Units	92624840016 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	238	250	5	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough Upgradient Wells-Revised Report
Pace Project No.: 92624376

QC Batch: 723206
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92624376001, 92624376002, 92624376003

METHOD BLANK: 3768028 Matrix: Water
Associated Lab Samples: 92624376001, 92624376002, 92624376003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/14/22 14:56	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/22 14:56	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/22 14:56	

LABORATORY CONTROL SAMPLE: 3768029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.2	100	80-120	

LABORATORY CONTROL SAMPLE: 3768030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.8	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3768031 3768032

Parameter	Units	92625359004 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	324	50	50	353	349	58	51	80-120	1	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3768033 3768034

Parameter	Units	92624372011 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	134	50	50	193	185	118	102	80-120	4	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough Upgradient Wells-Revised Report
Pace Project No.: 92624376

QC Batch: 722303
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92624376001, 92624376002

METHOD BLANK: 3763468 Matrix: Water
Associated Lab Samples: 92624376001, 92624376002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/09/22 22:31	
Fluoride	mg/L	ND	0.10	0.050	09/09/22 22:31	
Sulfate	mg/L	ND	1.0	0.50	09/09/22 22:31	

LABORATORY CONTROL SAMPLE: 3763469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.6	101	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	50.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3763470 3763471

Parameter	Units	92624373001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	16.4	50	50	68.2	69.0	103	105	90-110	1	10	
Fluoride	mg/L	0.11	2.5	2.5	2.4	2.5	93	94	90-110	1	10	
Sulfate	mg/L	263	50	50	311	309	96	92	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough Upgradient Wells-Revised Report
Pace Project No.: 92624376

QC Batch: 722843
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92624376003

METHOD BLANK: 3766296 Matrix: Water
Associated Lab Samples: 92624376003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/13/22 12:35	
Fluoride	mg/L	ND	0.10	0.050	09/13/22 12:35	
Sulfate	mg/L	ND	1.0	0.50	09/13/22 12:35	

LABORATORY CONTROL SAMPLE: 3766297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.4	101	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3766298 3766299

Parameter	Units	92624945004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	938	50	50	975	975	73	74	90-110	0	10	M1
Fluoride	mg/L	ND	2.5	2.5	3.3J	3.8J	132	151	90-110		10	M1
Sulfate	mg/L	3180	50	50	3170	3160	-30	-43	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3766300 3766301

Parameter	Units	92624372011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	50	50	57.1	58.0	103	105	90-110	2	10	
Fluoride	mg/L	0.082J	2.5	2.5	2.4	2.4	92	92	90-110	0	10	
Sulfate	mg/L	96.6	50	50	150	153	106	113	90-110	2	10	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: McDonough Upgradient Wells-Revised Report
Pace Project No.: 92624376

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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough Upgradient Wells-Revised Report
Pace Project No.: 92624376

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92624376001	**DGWA-70A**				
92624376002	**DGWA-71**				
92624376003	**DGWA-53**				
92624376001	**DGWA-70A**	EPA 3010A	724698	EPA 6010D	724853
92624376002	**DGWA-71**	EPA 3010A	724698	EPA 6010D	724853
92624376003	**DGWA-53**	EPA 3010A	724698	EPA 6010D	724853
92624376001	**DGWA-70A**	EPA 3005A	724800	EPA 6020B	724886
92624376002	**DGWA-71**	EPA 3005A	724800	EPA 6020B	724886
92624376003	**DGWA-53**	EPA 3005A	724800	EPA 6020B	724886
92624376001	**DGWA-70A**	EPA 7470A	724426	EPA 7470A	725130
92624376002	**DGWA-71**	EPA 7470A	724426	EPA 7470A	725130
92624376003	**DGWA-53**	EPA 7470A	724426	EPA 7470A	725130
92624376001	**DGWA-70A**	SM 2540C-2015	722447		
92624376002	**DGWA-71**	SM 2540C-2015	722447		
92624376003	**DGWA-53**	SM 2540C-2015	722879		
92624376001	**DGWA-70A**	SM 2320B-2011	723206		
92624376002	**DGWA-71**	SM 2320B-2011	723206		
92624376003	**DGWA-53**	SM 2320B-2011	723206		
92624376001	**DGWA-70A**	EPA 300.0 Rev 2.1 1993	722303		
92624376002	**DGWA-71**	EPA 300.0 Rev 2.1 1993	722303		
92624376003	**DGWA-53**	EPA 300.0 Rev 2.1 1993	722843		

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 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 ☐

WO# : 92624376

Sample Condition Upon Receipt

Client Name: Georgia Power **Project #:**

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/8/22 JM

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 214 ☑ Wet ☐ Blue ☐ None **Type of Ice:**

Cooler Temp: 2.1 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.1

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

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4. 10 DAY TAT
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY **Field Data Required?** ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

Project #

WO#: 92624376

PM: NMG Due Date: 09/22/22

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BPIN	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (
1		2	1			1																			2				
2		2	1			1																			2				
3																													
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5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A	Section B	Section C
Required Client Information:	Required Project Information:	Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scainvoices@southernco.com
Address: 2480 Maner Road Atlanta, GA 30339	Copy To: Golder	Company Name:
Email: laucoker@southernco.com	Purchase Order #:	Address:
Phone: (470) 620-6176 Fax:	Project Name: Plant McDonough Upgradient Wells	Pace Quote:
Requested Due Date: 10 Day TAT	Project #: GL166849621	Pace Project Manager: Nicole D'Oleo
		Pace Profile #:

Regulatory Agency	State / Location
	GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	
																Requested Analysis Filtered (Y/N)	N	N	N	N	N	N	
3	DGWA-70A	WG	G	9/7/2022	9:35		6	3		3							X	X	X	X	X	X	pH = 5.60, Fe2 = 0.0 mg/L
5	DGWA-71	WG	G	9/7/2022	10:24		6	3		3							X	X	X	X	X	X	pH = 5.65, Fe2 = 0.0 mg/L
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
JUDE WAGUESPACK	[signature] / SAMPLER	9/8/22	8:40	M. BAH	9-8-22	8:40	
				[signature]	9/8/22	0945	

DATE Signed: 9/8/22

EMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

Pace Analytical

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2460 Maner Road	Copy To:	Golder	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McDonough Upgradient Wells	Pace Project Manager:	Nicole D'Olen
Requested Due Date:	10 Day TAT	Project #:	GL166849622	Pace Profile #:	

Regulatory Agency	
State / Location	GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (use valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	4376
																Y/N	N	N	N	N	N	N		
3	DGWA-53	WG	G	9/8/2022	13:28		6	3		3						X	X	X	X	X	X		pH = 6.32, Fe2 = 3.0 mg/L
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Mark Mann / Golder	09/09/22	15:50	Chuck Hunt	9/9/22	1550	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 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 #:

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/9/22 JM

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.4 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.4

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

Pace

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

*****Check all unpreserved Nitrates for chlorine**

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BPIV	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1 ✓																			2				
2																													
3																													
4																													
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12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

November 04, 2022

Andrea McClure
WSP/Golder
5170 Peachtree Road
Building 100, Suite 300
Atlanta, GA 30341

RE: Project: McDonough Upgradient Wells Rad-Revised Report
Pace Project No.: 92624378

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between September 08, 2022 and September 09, 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

Revision 1: Issued on 11/4/22 to include Radium QC Sheets.

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

Sincerely,

Nicole D'Oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Stephen Benda, Southern Company
Noelia Gangi, Georgia Power
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Karim Minkara, Golder Associates - Atlanta
J. Shelby Mobley, Southern Company
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Michael Smilley, Georgia Power
Yong Cheng Soo, WSP/Golder
Tina Sullivan, ERM

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: McDonough Upgradient Wells Rad-Revised Report
Pace Project No.: 92624378

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: McDonough Upgradient Wells Rad-Revised Report
Pace Project No.: 92624378

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92624378001	**DGWA-70A**	Water	09/07/22 09:35	09/08/22 09:45
92624378002	**DGWA-71**	Water	09/07/22 10:24	09/08/22 09:45
92624378003	**DGWA-53**	Water	09/08/22 13:28	09/09/22 15:50

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: McDonough Upgradient Wells Rad-Revised Report
Pace Project No.: 92624378

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92624378001	**DGWA-70A**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	CMC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92624378002	**DGWA-71**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	CMC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92624378003	**DGWA-53**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough Upgradient Wells Rad-Revised Report
Pace Project No.: 92624378

Sample: DGWA-70A **Lab ID: 92624378001** Collected: 09/07/22 09:35 Received: 09/08/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.115 ± 0.101 (0.182) C:97% T:NA**	pCi/L	09/27/22 09:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.389 ± 0.508 (1.08) C:70% T:94%**	pCi/L	09/23/22 19:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.504 ± 0.609 (1.26)**	pCi/L	09/27/22 14:32	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough Upgradient Wells Rad-Revised Report
Pace Project No.: 92624378

Sample: DGWA-71 **Lab ID: 92624378002** Collected: 09/07/22 10:24 Received: 09/08/22 09:45 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	**0.169 ± 0.115 (0.181) C:99% T:NA**	pCi/L	09/27/22 09:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.419 ± 0.516 (1.09) C:71% T:86%**	pCi/L	09/23/22 19:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.588 ± 0.631 (1.27)**	pCi/L	09/27/22 14:32	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough Upgradient Wells Rad-Revised Report
Pace Project No.: 92624378

Sample: DGWA-53 **Lab ID: 92624378003** Collected: 09/08/22 13:28 Received: 09/09/22 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.878 ± 0.244 (0.129) C:93% T:NA**	pCi/L	10/02/22 10:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.814 ± 0.382 (0.636) C:74% T:92%**	pCi/L	09/28/22 12:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.69 ± 0.626 (0.765)**	pCi/L	10/03/22 12:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough Upgradient Wells Rad-Revised Report
Pace Project No.: 92624378

QC Batch: 533110
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92624378003

METHOD BLANK: 2586601 Matrix: Water
Associated Lab Samples: 92624378003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00759 ± 0.0468 (0.133) C:88% T:NA	pCi/L	10/02/22 10:24	

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough Upgradient Wells Rad-Revised Report
Pace Project No.: 92624378

QC Batch: 532087
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92624378001, 92624378002

METHOD BLANK: 2581306 Matrix: Water
Associated Lab Samples: 92624378001, 92624378002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.122 ± 0.122 (0.241) C:95% T:NA	pCi/L	09/27/22 08:34	

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough Upgradient Wells Rad-Revised Report
Pace Project No.: 92624378

QC Batch: 533111
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92624378003

METHOD BLANK: 2586603 Matrix: Water
Associated Lab Samples: 92624378003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.798 ± 0.368 (0.604) C:81% T:85%	pCi/L	09/28/22 11:36	

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough Upgradient Wells Rad-Revised Report
Pace Project No.: 92624378

QC Batch: 532089
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92624378001, 92624378002

METHOD BLANK: 2581322 Matrix: Water
Associated Lab Samples: 92624378001, 92624378002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.391 ± 0.413 (0.858) C:74% T:78%	pCi/L	09/23/22 16:00	

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: McDonough Upgradient Wells Rad-Revised Report
Pace Project No.: 92624378

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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough Upgradient Wells Rad-Revised Report
Pace Project No.: 92624378

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92624378001	**DGWA-70A**	EPA 9315	532087		
92624378002	**DGWA-71**	EPA 9315	532087		
92624378003	**DGWA-53**	EPA 9315	533110		
92624378001	**DGWA-70A**	EPA 9320	532089		
92624378002	**DGWA-71**	EPA 9320	532089		
92624378003	**DGWA-53**	EPA 9320	533111		
92624378001	**DGWA-70A**	Total Radium Calculation	535756		
92624378002	**DGWA-71**	Total Radium Calculation	535756		
92624378003	**DGWA-53**	Total Radium Calculation	536982		

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 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# : 92624378

92624378

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/8/22 JM

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.1 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.1

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

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4. 10 DAY TAT
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 2 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

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

Project #

WO#: 92624378

PM: NMG Due Date: 09/29/22

CLIENT: GA-GA Power

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BPIN	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			2				
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A — Required Client Information:

- Company: Georgia Power - Coal Combustion Residuals
- Address: 2480 Maner Road, Atlanta, GA 30339
- Email: laucoker@southernco.com
- Phone: (470) 620-6176 Fax:
- Requested Due Date: 10 Day TAT

Section B — Required Project Information:

- Report To: Lauren Coker
- Copy To: Golder
- Purchase Order #:
- Project Name: Plant McDonough Upgradient Wells
- Project #: GL166849621

Section C — Invoice Information:

- Attention: scsinvoices@southernco.com
- Company Name:
- Address:
- Pace Quote:
- Pace Project Manager: Nicole D'Oleo
- Pace Profile #:

Regulatory Agency:

State / Location: GA

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Preservatives; Requested Analysis Filtered (Y/N): N for each analysis test

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	
3	DGWA-70A	WG	G	9/7/2022	9:35		6	3		3							X	X	X	X	X	X		pH = 5.60, Fe2 = 0.0 mg/L
5	DGWA-71	WG	G	9/7/2022	10:24		6	3		3							X	X	X	X	X	X		pH = 5.65, Fe2 = 0.0 mg/L
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13																								
14																								
15																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
JUDE WAGUESPACK	[signature] / Sampler	9/8/22	8:40	M. B[signature]	9-8-22	8:40	
				[signature]	9/8/22	0945	

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

DATE Signed: 9/8/22

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 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 #:

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/9/22 JM

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.4 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.4

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BPIV	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1 ✓																			2				
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pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2460 Maner Road	Copy To:	Golder	Company Name:	
	Atlanta, GA 30339			Address	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McDonough Upgradient Wells	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	10 Day TAT	Project #:	GL166849622	Pace Profile #:	

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	4378
																Requested Analysis Filtered (Y/N)	N	N	N	N	N	N		
3	DGWA-53	WG	G	9/8/2022	13:28		6	3		3							X	X	X	X	X	X		pH = 6.32, Fe2 = 3.0 mg/L
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Mark Mann / Golder	09/09/22	15:50	Chanda Hunt	9/9/22	1550	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	RMS
Date:	9/20/2022
Worklist:	68887
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2586601
MB concentration:	0.008
MB Counting Uncertainty:	0.047
MB MDC:	0.133
MB Numerical Performance Indicator:	0.32
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS68887	LCSD68887
Count Date:	10/2/2022	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.023	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.505	
Target Conc. (pCi/L, g, F):	4.760	
Uncertainty (Calculated):	0.057	
Result (pCi/L, g, F):	3.993	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.431	
Numerical Performance Indicator:	-3.46	
Percent Recovery:	83.89%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	92624832001	92624832001
Duplicate Sample I.D.	92624832001DUP	92624832002
Sample Result (pCi/L, g, F):	0.124	0.124
Sample Result Counting Uncertainty (pCi/L, g, F):	0.091	0.091
Sample Duplicate Result (pCi/L, g, F):	0.071	0.187
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.074	0.104
Are sample and/or duplicate results below RL?	See Below ##	See Below ##
Duplicate Numerical Performance Indicator:	0.874	-0.888
Duplicate RPD:	53.80%	40.52%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Fail***	Fail***
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

10/3/22

~~***Batch must be re-prepped due to unacceptable precision.~~ N/A

LAM 10/3/22

LAM 10/3/22

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	9/14/2022
Worklist:	68823
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2581322
MB concentration:	0.391
M/B 2 Sigma CSU:	0.413
MB MDC:	0.858
MB Numerical Performance Indicator:	1.86
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS68823	LCSD68823
Count Date:	9/23/2022	9/23/2022
Spike I.D.:	20-030	20-030
Decay Corrected Spike Concentration (pCi/mL):	30.094	30.094
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.812	0.815
Target Conc. (pCi/L, g, F):	3.707	3.693
Uncertainty (Calculated):	0.182	0.181
Result (pCi/L, g, F):	3.342	3.360
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.875	0.865
Numerical Performance Indicator:	-0.80	-0.74
Percent Recovery:	90.14%	90.99%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.:	LCS68823	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD68823	
Sample Result (pCi/L, g, F):	3.342	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.875	
Sample Duplicate Result (pCi/L, g, F):	3.360	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.865	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.030	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.94%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test: Ra-228
Analyst: VAL
Date: 9/19/2022
Worklist: 68888
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2586603
MB concentration:	0.798
M/B 2 Sigma CSU:	0.368
MB MDC:	0.604
MB Numerical Performance Indicator:	4.25
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS68888	LCSD68888
Count Date:	9/28/2022	9/28/2022
Spike I.D.:	22-029	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.913	19.913
Volume Used (mL):	0.20	0.20
Aliquot Volume (L, g, F):	0.808	0.809
Target Conc. (pCi/L, g, F):	4.927	4.925
Uncertainty (Calculated):	0.355	0.355
Result (pCi/L, g, F):	5.626	5.197
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.255	1.158
Numerical Performance Indicator:	1.05	0.44
Percent Recovery:	114.19%	105.52%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS68888	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD68888	
Sample Result (pCi/L, g, F):	5.626	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.255	
Sample Duplicate Result (pCi/L, g, F):	5.197	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.158	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.493	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.89%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

November 29, 2022

Andrea McClure
WSP/Golder
5170 Peachtree Road
Building 100, Suite 300
Atlanta, GA 30341

RE: Project: McDonough AP-1 Assessment-Revised Report
Pace Project No.: 92624373

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory on September 09, 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

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Stephen Benda, Southern Company
Noelia Gangi, Georgia Power
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Karim Minkara, Golder Associates - Atlanta
J. Shelby Mobley, Southern Company
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Michael Smilley, Georgia Power
Yong Cheng Soo, WSP/Golder
Tina Sullivan, ERM

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: McDonough AP-1 Assessment-Revised Report
Pace Project No.: 92624373

Pace Analytical Services Charlotte
South Carolina Laboratory ID: 99006
9800 Kincey 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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: McDonough AP-1 Assessment-Revised Report
Pace Project No.: 92624373

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92624373003	**B-100**	Water	09/08/22 11:05	09/09/22 15:50
92624373004	**B-62**	Water	09/09/22 11:25	09/09/22 15:50

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: McDonough AP-1 Assessment-Revised Report
Pace Project No.: 92624373

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92624373003	**B-100**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92624373004	**B-62**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-1 Assessment-Revised Report
Pace Project No.: 92624373

Sample: B-100 **Lab ID: 92624373003** Collected: 09/08/22 11:05 Received: 09/09/22 15:50 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		09/09/22 17:31		
pH	**5.24**	Std. Units			1		09/09/22 17:31		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**25.0**	mg/L	0.040	0.025	1	09/21/22 12:19	09/21/22 21:14	7439-89-6	
Sodium	**27.0**	mg/L	1.0	0.58	1	09/21/22 12:19	09/21/22 21:14	7440-23-5	
Calcium	**46.0**	mg/L	1.0	0.12	1	09/21/22 12:19	09/21/22 21:14	7440-70-2	
Potassium	**1.2**	mg/L	0.20	0.15	1	09/21/22 12:19	09/22/22 20:51	7440-09-7	
Magnesium	**46.3**	mg/L	0.050	0.012	1	09/21/22 12:19	09/22/22 20:51	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	09/21/22 13:49	09/24/22 16:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/21/22 13:49	09/24/22 16:01	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.00067	1	09/21/22 13:49	09/24/22 16:01	7440-39-3	
Beryllium	**0.00058**	mg/L	0.00050	0.000054	1	09/21/22 13:49	09/24/22 16:01	7440-41-7	
Boron	**0.24**	mg/L	0.040	0.0086	1	09/21/22 13:49	09/26/22 14:13	7440-42-8	
Cadmium	**0.00027J**	mg/L	0.00050	0.00011	1	09/21/22 13:49	09/24/22 16:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/22 13:49	09/24/22 16:01	7440-47-3	
Cobalt	**0.028**	mg/L	0.0050	0.00039	1	09/21/22 13:49	09/24/22 16:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/22 13:49	09/24/22 16:01	7439-92-1	
Lithium	**0.0023J**	mg/L	0.030	0.00073	1	09/21/22 13:49	09/24/22 16:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/22 13:49	09/24/22 16:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/22 13:49	09/24/22 16:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/22 13:49	09/24/22 16:01	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/22/22 14:00	09/22/22 17:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**606**	mg/L	50.0	20.0	1		09/14/22 11:32		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**31.5**	mg/L	5.0	5.0	1		09/14/22 17:16		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/22 17:16		
Alkalinity, Total as CaCO3	**31.5**	mg/L	5.0	5.0	1		09/14/22 17:16		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.2**	mg/L	1.0	0.60	1		09/13/22 19:12	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-1 Assessment-Revised Report
Pace Project No.: 92624373

Sample: B-100 **Lab ID: 92624373003** Collected: 09/08/22 11:05 Received: 09/09/22 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.072J**	mg/L	0.10	0.050	1		09/13/22 19:12	16984-48-8	
Sulfate	**399**	mg/L	8.0	4.0	8		09/14/22 21:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-1 Assessment-Revised Report
Pace Project No.: 92624373

Sample: B-62 **Lab ID: 92624373004** Collected: 09/09/22 11:25 Received: 09/09/22 15:50 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		09/09/22 17:31		
pH	**6.22**	Std. Units			1		09/09/22 17:31		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**2.4**	mg/L	0.20	0.15	1	09/21/22 12:19	09/22/22 21:05	7440-09-7	
Iron	**6.5**	mg/L	0.040	0.025	1	09/21/22 12:19	09/21/22 21:19	7439-89-6	
Sodium	**10.2**	mg/L	1.0	0.58	1	09/21/22 12:19	09/21/22 21:19	7440-23-5	
Calcium	**31.4**	mg/L	1.0	0.12	1	09/21/22 12:19	09/21/22 21:19	7440-70-2	
Magnesium	**5.1**	mg/L	0.050	0.012	1	09/21/22 12:19	09/21/22 21:19	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	09/21/22 13:49	09/24/22 16:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/21/22 13:49	09/24/22 16:07	7440-38-2	
Barium	**0.018**	mg/L	0.0050	0.00067	1	09/21/22 13:49	09/24/22 16:07	7440-39-3	
Beryllium	**0.00013J**	mg/L	0.00050	0.000054	1	09/21/22 13:49	09/24/22 16:07	7440-41-7	
Boron	**0.064**	mg/L	0.040	0.0086	1	09/21/22 13:49	09/26/22 14:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/21/22 13:49	09/24/22 16:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/22 13:49	09/24/22 16:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/21/22 13:49	09/24/22 16:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/22 13:49	09/24/22 16:07	7439-92-1	
Lithium	**0.0085J**	mg/L	0.030	0.00073	1	09/21/22 13:49	09/24/22 16:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/22 13:49	09/24/22 16:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/22 13:49	09/24/22 16:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/22 13:49	09/24/22 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	09/22/22 14:00	09/22/22 17:38	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**160**	mg/L	25.0	10.0	1		09/14/22 11:33		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**70.3**	mg/L	5.0	5.0	1		09/14/22 17:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/22 17:23		
Alkalinity, Total as CaCO3	**70.3**	mg/L	5.0	5.0	1		09/14/22 17:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.3**	mg/L	1.0	0.60	1		09/13/22 19:27	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-1 Assessment-Revised Report
Pace Project No.: 92624373

Sample: B-62 **Lab ID: 92624373004** Collected: 09/09/22 11:25 Received: 09/09/22 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.13**	mg/L	0.10	0.050	1		09/13/22 19:27	16984-48-8	
Sulfate	**45.8**	mg/L	1.0	0.50	1		09/13/22 19:27	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-1 Assessment-Revised Report
Pace Project No.: 92624373

QC Batch: 724698
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92624373003, 92624373004

METHOD BLANK: 3775652 Matrix: Water
Associated Lab Samples: 92624373003, 92624373004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/21/22 19:48	
Iron	mg/L	ND	0.040	0.025	09/21/22 19:48	
Magnesium	mg/L	ND	0.050	0.012	09/21/22 19:48	
Potassium	mg/L	ND	0.20	0.15	09/21/22 19:48	
Sodium	mg/L	ND	1.0	0.58	09/21/22 19:48	

LABORATORY CONTROL SAMPLE: 3775653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Iron	mg/L	1	1.0	101	80-120	
Magnesium	mg/L	1	1.0	104	80-120	
Potassium	mg/L	1	1.0	103	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775654 3775655

Parameter	Units	92624373001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	73.2	1	1	71.7	72.8	-152	-37	75-125	2	20	M1
Iron	mg/L	1.9	1	1	2.9	2.9	101	100	75-125	0	20	
Magnesium	mg/L	25.2	1	1	25.7	25.7	49	52	75-125	0	20	M1
Potassium	mg/L	8.2	1	1	9.0	9.1	75	90	75-125	2	20	
Sodium	mg/L	19.9	1	1	20.3	20.6	38	68	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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-1 Assessment-Revised Report
Pace Project No.: 92624373

QC Batch: 724800
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92624373003, 92624373004

METHOD BLANK: 3776150 Matrix: Water
Associated Lab Samples: 92624373003, 92624373004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/24/22 14:20	
Arsenic	mg/L	ND	0.0050	0.0022	09/24/22 14:20	
Barium	mg/L	ND	0.0050	0.00067	09/24/22 14:20	
Beryllium	mg/L	ND	0.00050	0.000054	09/24/22 14:20	
Boron	mg/L	ND	0.040	0.0086	09/24/22 14:20	
Cadmium	mg/L	ND	0.00050	0.00011	09/24/22 14:20	
Chromium	mg/L	ND	0.0050	0.0011	09/24/22 14:20	
Cobalt	mg/L	ND	0.0050	0.00039	09/24/22 14:20	
Lead	mg/L	ND	0.0010	0.00089	09/24/22 14:20	
Lithium	mg/L	ND	0.030	0.00073	09/24/22 14:20	
Molybdenum	mg/L	ND	0.010	0.00074	09/24/22 14:20	
Selenium	mg/L	ND	0.0050	0.0014	09/24/22 14:20	
Thallium	mg/L	ND	0.0010	0.00018	09/24/22 14:20	

LABORATORY CONTROL SAMPLE: 3776151

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	105	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.1	107	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3776152 3776153

Parameter	Units	92625866027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	106	109	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	99	101	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-1 Assessment-Revised Report
Pace Project No.: 92624373

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3776152 3776153

Parameter	Units	92625866027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	14.6 ug/L	0.1	0.1	0.12	0.12	102	102	75-125	0	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	1	20	
Boron	mg/L	393 ug/L	1	1	1.6	1.6	116	116	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Chromium	mg/L	22.8 ug/L	0.1	0.1	0.13	0.14	112	118	75-125	4	20	
Cobalt	mg/L	0.44J ug/L	0.1	0.1	0.098	0.10	98	101	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.098	94	98	75-125	4	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	100	105	75-125	5	20	
Selenium	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.095	0.099	95	99	75-125	4	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-1 Assessment-Revised Report
Pace Project No.: 92624373

QC Batch: 724426
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92624373003, 92624373004

METHOD BLANK: 3774367 Matrix: Water
Associated Lab Samples: 92624373003, 92624373004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/22/22 17:16	

LABORATORY CONTROL SAMPLE: 3774368

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774369 3774370

Parameter	Units	92624373001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.00014J	0.0025	0.0025	0.0025	0.0025	93	93	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-1 Assessment-Revised Report
Pace Project No.: 92624373

QC Batch: 722886
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92624373003, 92624373004

METHOD BLANK: 3766455 Matrix: Water
Associated Lab Samples: 92624373003, 92624373004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/14/22 11:30	

LABORATORY CONTROL SAMPLE: 3766456

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3766458

Parameter	Units	92624840004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	620000 ug/L	680	9	10	

SAMPLE DUPLICATE: 3767354

Parameter	Units	92624372007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	252	297	16	10	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-1 Assessment-Revised Report
Pace Project No.: 92624373

QC Batch: 723206
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92624373003, 92624373004

METHOD BLANK: 3768028 Matrix: Water
Associated Lab Samples: 92624373003, 92624373004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/14/22 14:56	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/22 14:56	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/22 14:56	

LABORATORY CONTROL SAMPLE: 3768029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.2	100	80-120	

LABORATORY CONTROL SAMPLE: 3768030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.8	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3768031 3768032

Parameter	Units	92625359004 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	324	50	50	353	349	58	51	80-120	1	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3768033 3768034

Parameter	Units	92624372011 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	134	50	50	193	185	118	102	80-120	4	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-1 Assessment-Revised Report
Pace Project No.: 92624373

QC Batch: 722843
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92624373003, 92624373004

METHOD BLANK: 3766296 Matrix: Water
Associated Lab Samples: 92624373003, 92624373004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/13/22 12:35	
Fluoride	mg/L	ND	0.10	0.050	09/13/22 12:35	
Sulfate	mg/L	ND	1.0	0.50	09/13/22 12:35	

LABORATORY CONTROL SAMPLE: 3766297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.4	101	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3766298 3766299

Parameter	Units	92624945004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	938	50	50	975	975	73	74	90-110	0	10	M1
Fluoride	mg/L	ND	2.5	2.5	3.3J	3.8J	132	151	90-110		10	M1
Sulfate	mg/L	3180	50	50	3170	3160	-30	-43	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3766300 3766301

Parameter	Units	92624372011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	50	50	57.1	58.0	103	105	90-110	2	10	
Fluoride	mg/L	0.082J	2.5	2.5	2.4	2.4	92	92	90-110	0	10	
Sulfate	mg/L	96.6	50	50	150	153	106	113	90-110	2	10	M1

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: McDonough AP-1 Assessment-Revised Report
Pace Project No.: 92624373

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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-1 Assessment-Revised Report
Pace Project No.: 92624373

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92624373003	**B-100**				
92624373004	**B-62**				
92624373003	**B-100**	EPA 3010A	724698	EPA 6010D	724853
92624373004	**B-62**	EPA 3010A	724698	EPA 6010D	724853
92624373003	**B-100**	EPA 3005A	724800	EPA 6020B	724886
92624373004	**B-62**	EPA 3005A	724800	EPA 6020B	724886
92624373003	**B-100**	EPA 7470A	724426	EPA 7470A	725130
92624373004	**B-62**	EPA 7470A	724426	EPA 7470A	725130
92624373003	**B-100**	SM 2540C-2015	722886		
92624373004	**B-62**	SM 2540C-2015	722886		
92624373003	**B-100**	SM 2320B-2011	723206		
92624373004	**B-62**	SM 2320B-2011	723206		
92624373003	**B-100**	EPA 300.0 Rev 2.1 1993	722843		
92624373004	**B-62**	EPA 300.0 Rev 2.1 1993	722843		

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 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# : 92624373

92624373

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/9/22 JM

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Cooler Temp: 2.4 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.4

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☐ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO# : 92624373

PM: NMG Due Date: 11/12/22

CLIENT: GA-GA Power

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

Project #

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1 ✓																			2				
2		2	1			1 ✓																			2				
3																									2				
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com	Regulatory Agency
Address:	2480 Maner Road	Copy To:	Golder	Company Name:		
	Atlanta, GA 30339			Address:		
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:		
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McDonough AP-1234 Assessment	Pace Project Manager:	Nicole D'Oleo	State / Location
Requested Due Date:	10 Day TAT	Project #:	GL16684962	Pace Profile #:		GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N): Y/N	Analyses Test: App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	4373
	MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS															N	N	N	N	N	N		
1	B-100	WG	G	9/8/2022	11:05		6	3		3						X	X	X	X	X	X		pH = 5.24 Fe2 = 7.0 mg/L
2	B-62	WG	G	9/9/2022	11:25		6	3		3						X	X	X	X	X	X		pH = 6.22 Fe2 = 1.5 mg/L
3																							
4																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Mark Mann / Golder	09/09/22	15:50	Charles Parker	9/9/22	1550	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

November 10, 2022

Andrea McClure
WSP/Golder
5170 Peachtree Road
Building 100, Suite 300
Atlanta, GA 30341

RE: Project: McDonough AP1,2,3/4 ASSESS RAD-Revised Report
Pace Project No.: 92624383

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory on September 09, 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

Revision 2: Issued on 11/10/22 to update Project Name.

Revision 1: Issued on 11/4/22 to include Radium QC Sheets and to update the samples included in this report.

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

Sincerely,

Nicole D'Oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Stephen Benda, Southern Company
Noelia Gangi, Georgia Power
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Karim Minkara, Golder Associates - Atlanta
J. Shelby Mobley, Southern Company
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Michael Smilley, Georgia Power
Yong Cheng Soo, WSP/Golder

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

cc: Tina Sullivan, ERM

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: McDonough AP1,2,3/4 ASSESS RAD-Revised Report
Pace Project No.: 92624383

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: McDonough AP1,2,3/4 ASSESS RAD-Revised Report
Pace Project No.: 92624383

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92624383003	**B-100**	Water	09/08/22 11:05	09/09/22 15:50
92624383004	**B-62**	Water	09/09/22 11:25	09/09/22 15:50

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: McDonough AP1,2,3/4 ASSESS RAD-Revised Report
Pace Project No.: 92624383

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92624383003	**B-100**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92624383004	**B-62**	EPA 9315	RMS	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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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP1,2,3/4 ASSESS RAD-Revised Report
Pace Project No.: 92624383

Sample: B-100 **Lab ID: 92624383003** Collected: 09/08/22 11:05 Received: 09/09/22 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.114 ± 0.0896 (0.141) C:89% T:NA**	pCi/L	10/02/22 10:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.529 ± 0.360 (0.681) C:70% T:87%**	pCi/L	09/28/22 12:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.643 ± 0.450 (0.822)**	pCi/L	10/03/22 12:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP1,2,3/4 ASSESS RAD-Revised Report
Pace Project No.: 92624383

Sample: B-62 **Lab ID: 92624383004** Collected: 09/09/22 11:25 Received: 09/09/22 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.627 ± 0.205 (0.135) C:86% T:NA**	pCi/L	10/02/22 10:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.33 ± 0.510 (0.781) C:71% T:88%**	pCi/L	09/28/22 12:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.96 ± 0.715 (0.916)**	pCi/L	10/03/22 12:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP1,2,3/4 ASSESS RAD-Revised Report
Pace Project No.: 92624383

QC Batch: 532087
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples:

METHOD BLANK: 2581306 Matrix: Water
Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.122 ± 0.122 (0.241) C:95% T:NA	pCi/L	09/27/22 08:34	

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: McDonough AP1,2,3/4 ASSESS RAD-Revised Report
Pace Project No.: 92624383

QC Batch: 533110
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92624383003, 92624383004

METHOD BLANK: 2586601 Matrix: Water
Associated Lab Samples: 92624383003, 92624383004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00759 ± 0.0468 (0.133) C:88% T:NA	pCi/L	10/02/22 10:24	

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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QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP1,2,3/4 ASSESS RAD-Revised Report
Pace Project No.: 92624383

QC Batch: 532089
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples:

METHOD BLANK: 2581322 Matrix: Water
Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.391 ± 0.413 (0.858) C:74% T:78%	pCi/L	09/23/22 16:00	

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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(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP1,2,3/4 ASSESS RAD-Revised Report
Pace Project No.: 92624383

QC Batch: 533111
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92624383003, 92624383004

METHOD BLANK: 2586603 Matrix: Water
Associated Lab Samples: 92624383003, 92624383004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.798 ± 0.368 (0.604) C:81% T:85%	pCi/L	09/28/22 11:36	

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

Pace Analytical Services, LLC
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QUALIFIERS

Project: McDonough AP1,2,3/4 ASSESS RAD-Revised Report
Pace Project No.: 92624383

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.

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP1,2,3/4 ASSESS RAD-Revised Report
Pace Project No.: 92624383

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92624383003	**B-100**	EPA 9315	533110		
92624383004	**B-62**	EPA 9315	533110		
92624383003	**B-100**	EPA 9320	533111		
92624383004	**B-62**	EPA 9320	533111		
92624383003	**B-100**	Total Radium Calculation	536982		
92624383004	**B-62**	Total Radium Calculation	536982		

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 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# : 92624383

92624383

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/9/22 JM

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Cooler Temp: 2.4 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.4

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☐ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO# : 92624383

PM: NMG Due Date: 09/29/22

CLIENT: GA-GA Power

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

Project #

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – ab)	SP2T-250 mL Sterile Plastic (N/A – ab)	BP/N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1 ✓																		2				
2		2	1			1 ✓																		2				
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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 Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com	
Address:	2480 Maner Road	Copy To:	Golder	Company Name:		
	Atlanta, GA 30339			Address:		Regulatory Agency
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:		
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McDonough AP-1234 Assessment	Pace Project Manager:	Nicole D'Oleo	State / Location
Requested Due Date:	10 Day TAT	Project #:	GL16684962	Pace Profile #:		GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N): Y/N	Analyses Test	App III/IV Total Metals	Cl, F, SO4 TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	4383
	MATRIX: Drinking Water CODE: DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS															N									
1	B-100	WG	G	9/8/2022	11:05		6	3		3						X	X	X	X	X	X	X			pH = 5.24 Fe2 = 7.0 mg/L
2	B-62	WG	G	9/9/2022	11:25		6	3		3						X	X	X	X	X	X	X			pH = 6.22 Fe2 = 1.5 mg/L
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Mark Nunn Golder	09/09/22	15:50	Charles Fowler	9/9/22	1550				

DATE Signed:

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	RMS
Date:	9/20/2022
Worklist:	68887
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2586601
MB concentration:	0.008
MB Counting Uncertainty:	0.047
MB MDC:	0.133
MB Numerical Performance Indicator:	0.32
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS68887	LCSD68887
Count Date:	10/2/2022	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.023	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.505	
Target Conc. (pCi/L, g, F):	4.760	
Uncertainty (Calculated):	0.057	
Result (pCi/L, g, F):	3.993	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.431	
Numerical Performance Indicator:	-3.46	
Percent Recovery:	83.89%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	92624832001	92624832001
Duplicate Sample I.D.	92624832001DUP	92624832002
Sample Result (pCi/L, g, F):	0.124	0.124
Sample Result Counting Uncertainty (pCi/L, g, F):	0.091	0.091
Sample Duplicate Result (pCi/L, g, F):	0.071	0.187
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.074	0.104
Are sample and/or duplicate results below RL?	See Below ##	See Below ##
Duplicate Numerical Performance Indicator:	0.874	-0.888
Duplicate RPD:	53.80%	40.52%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Fail***	Fail***
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

10/3/22

~~***Batch must be re-prepped due to unacceptable precision.~~ N/A

LAM 10/3/22

LAM 10/3/22

Quality Control Sample Performance Assessment

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Test:	Ra-228
Analyst:	VAL
Date:	9/14/2022
Worklist:	68823
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2581322
MB concentration:	0.391
M/B 2 Sigma CSU:	0.413
MB MDC:	0.858
MB Numerical Performance Indicator:	1.86
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS68823	LCSD68823
Count Date:	9/23/2022	9/23/2022
Spike I.D.:	20-030	20-030
Decay Corrected Spike Concentration (pCi/mL):	30.094	30.094
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.812	0.815
Target Conc. (pCi/L, g, F):	3.707	3.693
Uncertainty (Calculated):	0.182	0.181
Result (pCi/L, g, F):	3.342	3.360
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.875	0.865
Numerical Performance Indicator:	-0.80	-0.74
Percent Recovery:	90.14%	90.99%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.:	LCS68823	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD68823	
Sample Result (pCi/L, g, F):	3.342	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.875	
Sample Duplicate Result (pCi/L, g, F):	3.360	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.865	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.030	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.94%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test: Ra-228
Analyst: VAL
Date: 9/19/2022
Worklist: 68888
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2586603
MB concentration:	0.798
M/B 2 Sigma CSU:	0.368
MB MDC:	0.604
MB Numerical Performance Indicator:	4.25
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS68888	LCSD68888
Count Date:	9/28/2022	9/28/2022
Spike I.D.:	22-029	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.913	19.913
Volume Used (mL):	0.20	0.20
Aliquot Volume (L, g, F):	0.808	0.809
Target Conc. (pCi/L, g, F):	4.927	4.925
Uncertainty (Calculated):	0.355	0.355
Result (pCi/L, g, F):	5.626	5.197
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.255	1.158
Numerical Performance Indicator:	1.05	0.44
Percent Recovery:	114.19%	105.52%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.:	LCS68888	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD68888	
Sample Result (pCi/L, g, F):	5.626	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.255	
Sample Duplicate Result (pCi/L, g, F):	5.197	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.158	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.493	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.89%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

November 10, 2022

Andrea McClure
WSP/Golder
5170 Peachtree Road
Building 100, Suite 300
Atlanta, GA 30341

RE: Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between September 14, 2022 and September 21, 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

Revision 1: Issued on 10/5/22 to include a revised COC, and update a sample ID.

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

Sincerely,

Nicole D'Oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Stephen Benda, Southern Company
Noelia Gangi, Georgia Power
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Karim Minkara, Golder Associates - Atlanta
J. Shelby Mobley, Southern Company
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

cc: Michael Smilley, Georgia Power
Yong Cheng Soo, WSP/Golder
Tina Sullivan, ERM

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Pace Analytical Services Charlotte
South Carolina Laboratory ID: 99006
9800 Kincey 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

Pace Analytical Services, LLC
110 Technology Parkway
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SAMPLE SUMMARY

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92625623001	**DGWC-14**	Water	09/13/22 16:11	09/14/22 09:53
92625623002	**DGWC-15**	Water	09/13/22 16:00	09/14/22 09:53
92625623003	**DGWC-42**	Water	09/13/22 10:00	09/14/22 09:53
92625623004	**DGWC-47**	Water	09/13/22 16:05	09/14/22 09:53
92625623005	**DGWC-48**	Water	09/13/22 12:05	09/14/22 09:53
92625623006	**EB-3**	Water	09/13/22 12:05	09/14/22 09:53
92625623007	**FB-4**	Water	09/13/22 10:00	09/14/22 09:53
92625623008	**DGWC-5**	Water	09/14/22 13:25	09/15/22 08:20
92625623009	**DGWC-17**	Water	09/14/22 14:40	09/15/22 08:20
92625623010	**DGWC-19**	Water	09/14/22 12:00	09/15/22 08:20
92625623011	**DUP-5**	Water	09/14/22 00:00	09/15/22 08:20
92625623015	**DGWC-8**	Water	09/15/22 13:18	09/16/22 16:30
92625623016	**DGWC-10**	Water	09/15/22 10:25	09/16/22 16:30
92625623017	**DGWC-11**	Water	09/15/22 13:45	09/16/22 16:30
92625623018	**DGWC-12**	Water	09/15/22 15:20	09/16/22 16:30
92625623019	**DGWC-13**	Water	09/15/22 09:35	09/16/22 16:30
92625623020	**DGWC-20**	Water	09/15/22 11:45	09/16/22 16:30
92625623021	**DGWC-21**	Water	09/15/22 16:10	09/16/22 16:30
92625623022	**EB-5**	Water	09/15/22 11:45	09/16/22 16:30
92626314001	**DGWC-22**	Water	09/16/22 12:01	09/16/22 16:30
92626314002	**DGWC-4**	Water	09/19/22 13:26	09/20/22 09:50
92626314003	**DGWC-9**	Water	09/19/22 11:49	09/20/22 09:50
92626314004	**DUP-6**	Water	09/19/22 00:00	09/20/22 09:50
92626314005	**DGWC-2**	Water	09/20/22 13:16	09/21/22 15:05
92626314006	**DGWC-23**	Water	09/20/22 10:42	09/21/22 15:05

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92625623001	**DGWC-14**	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623002	**DGWC-15**	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623003	**DGWC-42**	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623004	**DGWC-47**	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623005	**DGWC-48**	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623006	**EB-3**	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623007	**FB-4**	EPA 6010D	KH	5

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SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623008	**DGWC-5**	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623009	**DGWC-17**	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623010	**DGWC-19**	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623011	**DUP-5**	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623015	**DGWC-8**	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623016	**DGWC-10**	EPA 6010D	KH	5
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623017	**DGWC-11**	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623018	**DGWC-12**	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623019	**DGWC-13**	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623020	**DGWC-20**	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623021	**DGWC-21**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623022	**EB-5**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1

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SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92626314001	**DGWC-22**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92626314002	**DGWC-4**	EPA 6010D	DRB, KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	MAB2	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92626314003	**DGWC-9**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	MAB2	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92626314004	**DUP-6**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	MAB2	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92626314005	**DGWC-2**	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	MAB2	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92626314006	**DGWC-23**	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3

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SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2011	MAB2	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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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-14 **Lab ID: 92625623001** Collected: 09/13/22 16:11 Received: 09/14/22 09:53 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		09/14/22 14:49		
pH	**5.71**	Std. Units			1		09/14/22 14:49		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.040**	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 20:48	7439-89-6	
Potassium	**3.2**	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 20:48	7440-09-7	
Sodium	**7.0**	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 20:48	7440-23-5	M1
Calcium	**11.2**	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 20:48	7440-70-2	M1
Magnesium	**4.7**	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 20:48	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	09/26/22 09:44	09/26/22 22:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 22:08	7440-38-2	
Barium	**0.063**	mg/L	0.0050	0.00067	1	09/26/22 09:44	09/26/22 22:08	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/26/22 09:44	09/26/22 22:08	7440-41-7	
Boron	**0.091**	mg/L	0.040	0.0086	1	09/26/22 09:44	09/26/22 22:08	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/26/22 09:44	09/26/22 22:08	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 09:44	09/26/22 22:08	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 22:08	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 09:44	09/26/22 22:08	7439-92-1	
Lithium	**0.0043J**	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 22:08	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 09:44	09/26/22 22:08	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 09:44	09/26/22 22:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 09:44	09/26/22 22:08	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/27/22 07:45	09/27/22 11:32	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**80.0**	mg/L	25.0	10.0	1		09/16/22 14:35		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**15.2**	mg/L	5.0	5.0	1		09/20/22 14:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 14:34		
Alkalinity, Total as CaCO3	**15.2**	mg/L	5.0	5.0	1		09/20/22 14:34		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.5**	mg/L	1.0	0.60	1		09/17/22 22:27	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-14 **Lab ID: 92625623001** Collected: 09/13/22 16:11 Received: 09/14/22 09:53 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								
Fluoride	**0.059J**	mg/L	0.10	0.050	1		09/17/22 22:27	16984-48-8	
Sulfate	**41.2**	mg/L	1.0	0.50	1		09/17/22 22:27	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-15 **Lab ID: 92625623002** Collected: 09/13/22 16:00 Received: 09/14/22 09:53 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		09/14/22 14:49		
pH	**5.82**	Std. Units			1		09/14/22 14:49		
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	09/26/22 14:09	09/26/22 21:17	7439-89-6	
Potassium	**4.4**	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 21:17	7440-09-7	
Sodium	**21.5**	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 21:17	7440-23-5	
Calcium	**34.4**	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 21:17	7440-70-2	
Magnesium	**14.9**	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 21:17	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 09:44	09/26/22 22:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 22:14	7440-38-2	
Barium	**0.042**	mg/L	0.0050	0.00067	1	09/26/22 09:44	09/26/22 22:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/26/22 09:44	09/26/22 22:14	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.0086	1	09/26/22 09:44	09/26/22 22:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/26/22 09:44	09/26/22 22:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 09:44	09/26/22 22:14	7440-47-3	
Cobalt	**0.0016J**	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 22:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 09:44	09/26/22 22:14	7439-92-1	
Lithium	**0.0057J**	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 22:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 09:44	09/26/22 22:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 09:44	09/26/22 22:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 09:44	09/26/22 22:14	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/27/22 07:45	09/27/22 11:34	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**289**	mg/L	25.0	10.0	1		09/16/22 14:35		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**17.3**	mg/L	5.0	5.0	1		09/20/22 14:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 14:39		
Alkalinity, Total as CaCO3	**17.3**	mg/L	5.0	5.0	1		09/20/22 14:39		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**21.9**	mg/L	1.0	0.60	1		09/17/22 22:42	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-15 **Lab ID: 92625623002** Collected: 09/13/22 16:00 Received: 09/14/22 09:53 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								
Fluoride	**0.065J**	mg/L	0.10	0.050	1		09/17/22 22:42	16984-48-8	
Sulfate	**145**	mg/L	3.0	1.5	3		09/20/22 20:01	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-42 **Lab ID: 92625623003** Collected: 09/13/22 10:00 Received: 09/14/22 09:53 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		09/14/22 14:50		
pH	**5.04**	Std. Units			1		09/14/22 14:50		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.15**	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 21:22	7439-89-6	
Potassium	**5.3**	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 21:22	7440-09-7	
Sodium	**78.3**	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 21:22	7440-23-5	
Calcium	**34.2**	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 21:22	7440-70-2	
Magnesium	**25.0**	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 21:22	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 09:44	09/26/22 22:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 22:20	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.00067	1	09/26/22 09:44	09/26/22 22:20	7440-39-3	
Beryllium	**0.0028**	mg/L	0.00050	0.000054	1	09/26/22 09:44	09/26/22 22:20	7440-41-7	
Boron	**1.1**	mg/L	0.040	0.0086	1	09/26/22 09:44	09/26/22 22:20	7440-42-8	
Cadmium	**0.00069**	mg/L	0.00050	0.00011	1	09/26/22 09:44	09/26/22 22:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 09:44	09/26/22 22:20	7440-47-3	
Cobalt	**0.0069**	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 22:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 09:44	09/26/22 22:20	7439-92-1	
Lithium	**0.0091J**	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 22:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 09:44	09/26/22 22:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 09:44	09/26/22 22:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 09:44	09/26/22 22:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/27/22 07:45	09/27/22 11:37	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**540**	mg/L	50.0	20.0	1		09/16/22 14:35		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**6.4**	mg/L	5.0	5.0	1		09/20/22 14:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 14:45		
Alkalinity, Total as CaCO3	**6.4**	mg/L	5.0	5.0	1		09/20/22 14:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**18.7**	mg/L	1.0	0.60	1		09/17/22 22:57	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-42 **Lab ID: 92625623003** Collected: 09/13/22 10:00 Received: 09/14/22 09:53 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								
Fluoride	ND	mg/L	0.10	0.050	1		09/17/22 22:57	16984-48-8	
Sulfate	**326**	mg/L	6.0	3.0	6		09/20/22 20:16	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-47 **Lab ID: 92625623004** Collected: 09/13/22 16:05 Received: 09/14/22 09:53 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		09/14/22 14:50		
pH	**4.15**	Std. Units			1		09/14/22 14:50		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**3.6**	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 21:26	7439-89-6	
Potassium	**5.4**	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 21:26	7440-09-7	
Sodium	**7.8**	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 21:26	7440-23-5	
Calcium	**24.8**	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 21:26	7440-70-2	
Magnesium	**7.3**	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 21:26	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 09:44	09/26/22 22:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 22:26	7440-38-2	
Barium	**0.022**	mg/L	0.0050	0.00067	1	09/26/22 09:44	09/26/22 22:26	7440-39-3	
Beryllium	**0.0094**	mg/L	0.00050	0.000054	1	09/26/22 09:44	09/26/22 22:26	7440-41-7	
Boron	**0.18**	mg/L	0.040	0.0086	1	09/26/22 09:44	09/26/22 22:26	7440-42-8	
Cadmium	**0.0011**	mg/L	0.00050	0.00011	1	09/26/22 09:44	09/26/22 22:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 09:44	09/26/22 22:26	7440-47-3	
Cobalt	**0.21**	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 22:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 09:44	09/26/22 22:26	7439-92-1	
Lithium	**0.050**	mg/L	0.030	0.00073	1	09/26/22 09:44	09/27/22 13:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 09:44	09/26/22 22:26	7439-98-7	
Selenium	**0.0031J**	mg/L	0.0050	0.0014	1	09/26/22 09:44	09/26/22 22:26	7782-49-2	
Thallium	**0.00021J**	mg/L	0.0010	0.00018	1	09/26/22 09:44	09/26/22 22:26	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/27/22 07:45	09/27/22 11:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**277**	mg/L	25.0	10.0	1		09/16/22 14:35		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 14:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 14:50		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/20/22 14:50		
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	0.60	1		09/17/22 23:12	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-47 **Lab ID: 92625623004** Collected: 09/13/22 16:05 Received: 09/14/22 09:53 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								
Fluoride	**0.47**	mg/L	0.10	0.050	1		09/17/22 23:12	16984-48-8	
Sulfate	**150**	mg/L	3.0	1.5	3		09/20/22 20:30	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-48 **Lab ID: 92625623005** Collected: 09/13/22 12:05 Received: 09/14/22 09:53 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		09/14/22 14:50		
pH	**4.25**	Std. Units			1		09/14/22 14:50		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**4.1**	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 21:31	7439-89-6	
Potassium	**14.0**	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 21:31	7440-09-7	
Sodium	**21.7**	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 21:31	7440-23-5	
Calcium	**65.3**	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 21:31	7440-70-2	
Magnesium	**15.1**	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 21:31	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	09/26/22 09:44	09/26/22 22:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 22:32	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.00067	1	09/26/22 09:44	09/26/22 22:32	7440-39-3	
Beryllium	**0.0071**	mg/L	0.00050	0.000054	1	09/26/22 09:44	09/26/22 22:32	7440-41-7	
Boron	**0.61**	mg/L	0.040	0.0086	1	09/26/22 09:44	09/26/22 22:32	7440-42-8	
Cadmium	**0.0026**	mg/L	0.00050	0.00011	1	09/26/22 09:44	09/26/22 22:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 09:44	09/26/22 22:32	7440-47-3	
Cobalt	**0.31**	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 22:32	7440-48-4	
Lead	**0.00093J**	mg/L	0.0010	0.00089	1	09/26/22 09:44	09/26/22 22:32	7439-92-1	
Lithium	**0.099**	mg/L	0.030	0.00073	1	09/26/22 09:44	09/27/22 13:22	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 09:44	09/26/22 22:32	7439-98-7	
Selenium	**0.0019J**	mg/L	0.0050	0.0014	1	09/26/22 09:44	09/26/22 22:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 09:44	09/26/22 22:32	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/27/22 07:45	09/27/22 11:42	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**527**	mg/L	25.0	10.0	1		09/16/22 14:38		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 14:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 14:52		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/20/22 14:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.9**	mg/L	1.0	0.60	1		09/17/22 23:27	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-48 **Lab ID: 92625623005** Collected: 09/13/22 12:05 Received: 09/14/22 09:53 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								
Fluoride	**0.43**	mg/L	0.10	0.050	1		09/17/22 23:27	16984-48-8	
Sulfate	**309**	mg/L	12.0	6.0	12		09/20/22 21:30	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: EB-3 **Lab ID: 92625623006** Collected: 09/13/22 12:05 Received: 09/14/22 09:53 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 21:36	7439-89-6	
Potassium	ND	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 21:36	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 21:36	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 21:36	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 21:36	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 09:44	09/26/22 22:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 22:38	7440-38-2	
Barium	**0.0025J**	mg/L	0.0050	0.00067	1	09/26/22 09:44	09/26/22 22:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/26/22 09:44	09/26/22 22:38	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/26/22 09:44	09/26/22 22:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/26/22 09:44	09/26/22 22:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 09:44	09/26/22 22:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 22:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 09:44	09/26/22 22:38	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 22:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 09:44	09/26/22 22:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 09:44	09/26/22 22:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 09:44	09/26/22 22:38	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/27/22 07:45	09/27/22 11:45	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/16/22 14:38		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 15:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 15:23		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/20/22 15:23		
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		09/17/22 23:42	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/17/22 23:42	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/17/22 23:42	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: FB-4 **Lab ID: 92625623007** Collected: 09/13/22 10:00 Received: 09/14/22 09:53 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 21:41	7439-89-6	
Potassium	ND	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 21:41	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 21:41	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 21:41	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 21:41	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 09:44	09/26/22 22:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 22:44	7440-38-2	
Barium	**0.0024J**	mg/L	0.0050	0.00067	1	09/26/22 09:44	09/26/22 22:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/26/22 09:44	09/26/22 22:44	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/26/22 09:44	09/26/22 22:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/26/22 09:44	09/26/22 22:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 09:44	09/26/22 22:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 22:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 09:44	09/26/22 22:44	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 22:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 09:44	09/26/22 22:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 09:44	09/26/22 22:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 09:44	09/26/22 22:44	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	09/27/22 07:45	09/27/22 11:47	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/16/22 14:38		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 15:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 15:39		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/20/22 15:39		
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		09/20/22 14:48	16887-00-6	M1
Fluoride	ND	mg/L	0.10	0.050	1		09/20/22 14:48	16984-48-8	M1
Sulfate	ND	mg/L	1.0	0.50	1		09/20/22 14:48	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-5 **Lab ID: 92625623008** Collected: 09/14/22 13:25 Received: 09/15/22 08:20 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		09/15/22 17:29		
pH	**4.75**	Std. Units			1		09/15/22 17:29		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 21:46	7439-89-6	
Potassium	**3.9**	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 21:46	7440-09-7	
Sodium	**19.8**	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 21:46	7440-23-5	
Calcium	**117**	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 21:46	7440-70-2	
Magnesium	**24.5**	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 21:46	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	09/26/22 09:44	09/26/22 23:14	7440-36-0	
Arsenic	**0.0038J**	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 23:14	7440-38-2	
Barium	**0.018**	mg/L	0.0050	0.00067	1	09/26/22 09:44	09/26/22 23:14	7440-39-3	
Beryllium	**0.010**	mg/L	0.00050	0.000054	1	09/26/22 09:44	09/26/22 23:14	7440-41-7	
Boron	**5.0**	mg/L	0.040	0.0086	1	09/26/22 09:44	09/26/22 23:14	7440-42-8	
Cadmium	**0.00087**	mg/L	0.00050	0.00011	1	09/26/22 09:44	09/26/22 23:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 09:44	09/26/22 23:14	7440-47-3	
Cobalt	**0.027**	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 23:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 09:44	09/26/22 23:14	7439-92-1	
Lithium	**0.0081J**	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 23:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 09:44	09/26/22 23:14	7439-98-7	
Selenium	**0.019**	mg/L	0.0050	0.0014	1	09/26/22 09:44	09/26/22 23:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 09:44	09/26/22 23:14	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	0.00013	1	09/27/22 07:45	09/27/22 11:50	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**850**	mg/L	50.0	20.0	1		09/19/22 09:21		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 16:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 16:25		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/20/22 16:25		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.2**	mg/L	1.0	0.60	1		09/19/22 17:15	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-5 **Lab ID: 92625623008** Collected: 09/14/22 13:25 Received: 09/15/22 08:20 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								
Fluoride	**0.27**	mg/L	0.10	0.050	1		09/19/22 17:15	16984-48-8	
Sulfate	**505**	mg/L	10.0	5.0	10		09/19/22 22:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-17 **Lab ID: 92625623009** Collected: 09/14/22 14:40 Received: 09/15/22 08:20 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		09/15/22 17:30		
pH	**5.08**	Std. Units			1		09/15/22 17:30		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 22:00	7439-89-6	
Potassium	**3.7**	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 22:00	7440-09-7	
Sodium	**17.5**	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 22:00	7440-23-5	
Calcium	**16.4**	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 22:00	7440-70-2	
Magnesium	**52.8**	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 22:00	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	09/26/22 09:44	09/26/22 23:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 23:20	7440-38-2	
Barium	**0.031**	mg/L	0.0050	0.00067	1	09/26/22 09:44	09/26/22 23:20	7440-39-3	
Beryllium	**0.00058**	mg/L	0.00050	0.000054	1	09/26/22 09:44	09/26/22 23:20	7440-41-7	
Boron	**0.87**	mg/L	0.040	0.0086	1	09/26/22 09:44	09/26/22 23:20	7440-42-8	
Cadmium	**0.00024J**	mg/L	0.00050	0.00011	1	09/26/22 09:44	09/26/22 23:20	7440-43-9	
Chromium	**0.0023J**	mg/L	0.0050	0.0011	1	09/26/22 09:44	09/26/22 23:20	7440-47-3	
Cobalt	**0.016**	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 23:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 09:44	09/26/22 23:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 23:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 09:44	09/26/22 23:20	7439-98-7	
Selenium	**0.0064**	mg/L	0.0050	0.0014	1	09/26/22 09:44	09/26/22 23:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 09:44	09/26/22 23:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/27/22 07:45	09/27/22 11:53	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**434**	mg/L	25.0	10.0	1		09/19/22 09:22		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 16:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 16:31		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/20/22 16:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**19.0**	mg/L	1.0	0.60	1		09/19/22 17:29	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-17 **Lab ID: 92625623009** Collected: 09/14/22 14:40 Received: 09/15/22 08:20 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								
Fluoride	**0.10**	mg/L	0.10	0.050	1		09/19/22 17:29	16984-48-8	
Sulfate	**268**	mg/L	5.0	2.5	5		09/19/22 22:54	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-19 **Lab ID: 92625623010** Collected: 09/14/22 12:00 Received: 09/15/22 08:20 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		09/15/22 17:30		
pH	**4.81**	Std. Units			1		09/15/22 17:30		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.026J**	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 22:05	7439-89-6	
Potassium	**4.1**	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 22:05	7440-09-7	
Sodium	**38.9**	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 22:05	7440-23-5	
Calcium	**105**	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 22:05	7440-70-2	
Magnesium	**12.1**	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 22:05	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	09/26/22 13:33	09/27/22 19:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 19:45	7440-38-2	
Barium	**0.027**	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 19:45	7440-39-3	
Beryllium	**0.0018**	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 19:45	7440-41-7	
Boron	**2.4**	mg/L	0.40	0.086	10	09/26/22 13:33	09/28/22 15:35	7440-42-8	
Cadmium	**0.00032J**	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 19:45	7440-43-9	
Chromium	**0.0024J**	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 19:45	7440-47-3	
Cobalt	**0.052**	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 19:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 19:45	7439-92-1	
Lithium	**0.0032J**	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 19:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 19:45	7439-98-7	
Selenium	**0.0073**	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 19:45	7782-49-2	
Thallium	**0.00056J**	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 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	09/27/22 07:45	09/27/22 11:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**572**	mg/L	50.0	20.0	1		09/19/22 09:22		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 16:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 16:36		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/20/22 16:36		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**18.7**	mg/L	1.0	0.60	1		09/19/22 17:44	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-19 **Lab ID: 92625623010** Collected: 09/14/22 12:00 Received: 09/15/22 08:20 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								
Fluoride	**0.18**	mg/L	0.10	0.050	1		09/19/22 17:44	16984-48-8	
Sulfate	**388**	mg/L	8.0	4.0	8		09/19/22 23:09	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DUP-5 **Lab ID: 92625623011** Collected: 09/14/22 00:00 Received: 09/15/22 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 22:10	7439-89-6	
Potassium	**3.9**	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 22:10	7440-09-7	
Sodium	**18.0**	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 22:10	7440-23-5	
Calcium	**16.5**	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 22:10	7440-70-2	
Magnesium	**53.2**	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 22:10	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	09/26/22 13:33	09/27/22 19:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 19:51	7440-38-2	
Barium	**0.030**	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 19:51	7440-39-3	
Beryllium	**0.00061**	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 19:51	7440-41-7	
Boron	**0.82**	mg/L	0.20	0.043	5	09/26/22 13:33	09/28/22 15:41	7440-42-8	
Cadmium	**0.00023J**	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 19:51	7440-43-9	
Chromium	**0.0024J**	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 19:51	7440-47-3	
Cobalt	**0.016**	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 19:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 19:51	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 19:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 19:51	7439-98-7	
Selenium	**0.0063**	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 19:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 19:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/27/22 07:45	09/27/22 12:48	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**445**	mg/L	25.0	10.0	1		09/19/22 09:22		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 16:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 16:40		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/20/22 16:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**19.1**	mg/L	1.0	0.60	1		09/19/22 17:59	16887-00-6	
Fluoride	**0.099J**	mg/L	0.10	0.050	1		09/19/22 17:59	16984-48-8	
Sulfate	**273**	mg/L	5.0	2.5	5		09/20/22 00:13	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-8 **Lab ID: 92625623015** Collected: 09/15/22 13:18 Received: 09/16/22 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/19/22 10:44		
pH	**5.20**	Std. Units			1		09/19/22 10:44		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 22:29	7439-89-6	
Potassium	**3.7**	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 22:29	7440-09-7	
Sodium	**12.3**	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 22:29	7440-23-5	
Calcium	**29.3**	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 22:29	7440-70-2	
Magnesium	**15.0**	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 22:29	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	09/26/22 13:33	09/27/22 20:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 20:14	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 20:14	7440-39-3	
Beryllium	**0.00088**	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 20:14	7440-41-7	
Boron	**0.83**	mg/L	0.20	0.043	5	09/26/22 13:33	09/28/22 16:18	7440-42-8	
Cadmium	**0.0011**	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 20:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 20:14	7440-47-3	
Cobalt	**0.0046J**	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 20:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 20:14	7439-92-1	
Lithium	**0.0039J**	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 20:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 20:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 20:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 20:14	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	10/03/22 11:30	10/03/22 13:57	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**234**	mg/L	25.0	10.0	1		09/20/22 13:21		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**9.2**	mg/L	5.0	5.0	1		09/20/22 17:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 17:45		
Alkalinity, Total as CaCO3	**9.2**	mg/L	5.0	5.0	1		09/20/22 17:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.3**	mg/L	1.0	0.60	1		09/20/22 20:37	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-8 **Lab ID: 92625623015** Collected: 09/15/22 13:18 Received: 09/16/22 16:30 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								
Fluoride	**0.077J**	mg/L	0.10	0.050	1		09/20/22 20:37	16984-48-8	
Sulfate	**134**	mg/L	3.0	1.5	3		09/21/22 12:47	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-10 **Lab ID: 92625623016** Collected: 09/15/22 10:25 Received: 09/16/22 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/19/22 10:44		
pH	**4.87**	Std. Units			1		09/19/22 10:44		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 22:33	7439-89-6	
Potassium	**5.7**	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 22:33	7440-09-7	
Sodium	**10.3**	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 22:33	7440-23-5	
Calcium	**64.4**	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 22:33	7440-70-2	
Magnesium	**6.2**	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 22:33	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 20:20	7440-36-0	
Arsenic	**0.0024J**	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 20:20	7440-38-2	
Barium	**0.018**	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 20:20	7440-39-3	
Beryllium	**0.0063**	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 20:20	7440-41-7	
Boron	**0.42**	mg/L	0.040	0.0086	1	09/26/22 13:33	09/28/22 16:24	7440-42-8	
Cadmium	**0.00047J**	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 20:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 20:20	7440-47-3	
Cobalt	**0.055**	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 20:20	7440-48-4	
Lead	ND	mg/L	0.0050	0.0044	5	09/26/22 13:33	09/29/22 14:24	7439-92-1	D3
Lithium	**0.0053J**	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 20:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 20:20	7439-98-7	
Selenium	**0.020**	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 20:20	7782-49-2	
Thallium	ND	mg/L	0.0050	0.00090	5	09/26/22 13:33	09/29/22 14:24	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	10/03/22 11:30	10/03/22 14:00	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**280**	mg/L	25.0	10.0	1		09/20/22 13:21		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 17:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 17:50		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/20/22 17:50		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.2**	mg/L	1.0	0.60	1		09/20/22 21:22	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-10 **Lab ID: 92625623016** Collected: 09/15/22 10:25 Received: 09/16/22 16:30 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								
Fluoride	**0.84**	mg/L	0.10	0.050	1		09/20/22 21:22	16984-48-8	
Sulfate	**229**	mg/L	5.0	2.5	5		09/21/22 13:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-11 **Lab ID: 92625623017** Collected: 09/15/22 13:45 Received: 09/16/22 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/19/22 10:44		
pH	**5.52**	Std. Units			1		09/19/22 10:44		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 22:38	7439-89-6	
Potassium	**4.5**	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 22:38	7440-09-7	
Sodium	**21.0**	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 22:38	7440-23-5	
Calcium	**66.6**	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 22:38	7440-70-2	
Magnesium	**25.8**	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 22:38	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	09/26/22 13:33	09/27/22 20:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 20:26	7440-38-2	
Barium	**0.047**	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 20:26	7440-39-3	
Beryllium	**0.00018J**	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 20:26	7440-41-7	
Boron	**1.7**	mg/L	0.40	0.086	10	09/26/22 13:33	09/28/22 16:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 20:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 20:26	7440-47-3	
Cobalt	**0.0010J**	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 20:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 20:26	7439-92-1	
Lithium	**0.0024J**	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 20:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 20:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 20:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 20:26	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 14:03	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**414**	mg/L	25.0	10.0	1		09/20/22 13:21		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**12.5**	mg/L	5.0	5.0	1		09/20/22 17:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 17:55		
Alkalinity, Total as CaCO3	**12.5**	mg/L	5.0	5.0	1		09/20/22 17:55		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**12.1**	mg/L	1.0	0.60	1		09/20/22 21:37	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-11 **Lab ID: 92625623017** Collected: 09/15/22 13:45 Received: 09/16/22 16:30 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								
Fluoride	**0.064J**	mg/L	0.10	0.050	1		09/20/22 21:37	16984-48-8	
Sulfate	**287**	mg/L	6.0	3.0	6		09/21/22 13:16	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-12 **Lab ID: 92625623018** Collected: 09/15/22 15:20 Received: 09/16/22 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/19/22 10:45		
pH	**5.75**	Std. Units			1		09/19/22 10:45		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**9.9**	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 22:43	7439-89-6	
Potassium	**5.5**	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 22:43	7440-09-7	
Sodium	**12.7**	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 22:43	7440-23-5	
Calcium	**41.5**	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 22:43	7440-70-2	
Magnesium	**19.5**	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 22:43	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	09/26/22 13:33	09/27/22 20:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 20:44	7440-38-2	
Barium	**0.035**	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 20:44	7440-39-3	
Beryllium	**0.00019J**	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 20:44	7440-41-7	
Boron	**3.3**	mg/L	0.40	0.086	10	09/26/22 13:33	09/28/22 16:36	7440-42-8	
Cadmium	**0.00017J**	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 20:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 20:44	7440-47-3	
Cobalt	**0.025**	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 20:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 20:44	7439-92-1	
Lithium	**0.00088J**	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 20:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 20:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 20:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 20:44	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	10/03/22 11:30	10/03/22 14:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**377**	mg/L	25.0	10.0	1		09/20/22 13:21		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**33.6**	mg/L	5.0	5.0	1		09/20/22 12:09		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 12:09		
Alkalinity, Total as CaCO3	**33.6**	mg/L	5.0	5.0	1		09/20/22 12:09		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.2**	mg/L	1.0	0.60	1		09/20/22 21:52	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-12 **Lab ID: 92625623018** Collected: 09/15/22 15:20 Received: 09/16/22 16:30 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								
Fluoride	**0.078J**	mg/L	0.10	0.050	1		09/20/22 21:52	16984-48-8	
Sulfate	**191**	mg/L	4.0	2.0	4		09/21/22 13:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-13 **Lab ID: 92625623019** Collected: 09/15/22 09:35 Received: 09/16/22 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/19/22 10:45		
pH	**5.56**	Std. Units			1		09/19/22 10:45		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 22:57	7439-89-6	
Potassium	**4.9**	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 22:57	7440-09-7	
Sodium	**20.7**	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 22:57	7440-23-5	
Calcium	**36.7**	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 22:57	7440-70-2	
Magnesium	**7.9**	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 22:57	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	09/26/22 13:33	09/27/22 20:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 20:50	7440-38-2	
Barium	**0.027**	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 20:50	7440-39-3	
Beryllium	**0.000080J**	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 20:50	7440-41-7	
Boron	**0.69**	mg/L	0.20	0.043	5	09/26/22 13:33	09/28/22 16:42	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 20:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 20:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 20:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 20:50	7439-92-1	
Lithium	**0.0040J**	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 20:50	7439-93-2	
Molybdenum	**0.0094J**	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 20:50	7439-98-7	
Selenium	**0.0040J**	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 20:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 20:50	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	10/03/22 11:30	10/03/22 14:08	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**216**	mg/L	25.0	10.0	1		09/20/22 13:21		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**22.1**	mg/L	5.0	5.0	1		09/20/22 12:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 12:28		
Alkalinity, Total as CaCO3	**22.1**	mg/L	5.0	5.0	1		09/20/22 12:28		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**13.7**	mg/L	1.0	0.60	1		09/20/22 22:07	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-13 **Lab ID: 92625623019** Collected: 09/15/22 09:35 Received: 09/16/22 16:30 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								
Fluoride	**0.095J**	mg/L	0.10	0.050	1		09/20/22 22:07	16984-48-8	
Sulfate	**133**	mg/L	3.0	1.5	3		09/21/22 13:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-20 **Lab ID: 92625623020** Collected: 09/15/22 11:45 Received: 09/16/22 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/19/22 10:45		
pH	**4.58**	Std. Units			1		09/19/22 10:45		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.034J**	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 23:02	7439-89-6	
Potassium	**7.7**	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 23:02	7440-09-7	
Sodium	**17.3**	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 23:02	7440-23-5	
Calcium	**70.1**	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 23:02	7440-70-2	
Magnesium	**25.4**	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 23:02	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	09/26/22 13:33	09/27/22 20:56	7440-36-0	
Arsenic	**0.016**	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 20:56	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 20:56	7440-39-3	
Beryllium	**0.0056**	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 20:56	7440-41-7	
Boron	**4.2**	mg/L	0.20	0.043	5	09/26/22 13:33	09/28/22 16:48	7440-42-8	
Cadmium	**0.0021**	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 20:56	7440-43-9	
Chromium	**0.0014J**	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 20:56	7440-47-3	
Cobalt	**0.75**	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 20:56	7440-48-4	
Lead	ND	mg/L	0.0050	0.0044	5	09/26/22 13:33	09/28/22 16:48	7439-92-1	D3
Lithium	**0.0096J**	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 20:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 20:56	7439-98-7	
Selenium	**0.062**	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 20:56	7782-49-2	
Thallium	**0.0010J**	mg/L	0.0050	0.00090	5	09/26/22 13:33	09/28/22 16:48	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	10/03/22 11:30	10/03/22 14:10	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**618**	mg/L	50.0	20.0	1		09/20/22 13:21		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 12:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 12:34		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/20/22 12:34		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**26.2**	mg/L	1.0	0.60	1		09/20/22 22:22	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-20 **Lab ID: 92625623020** Collected: 09/15/22 11:45 Received: 09/16/22 16:30 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								
Fluoride	**0.69**	mg/L	0.10	0.050	1		09/20/22 22:22	16984-48-8	
Sulfate	**462**	mg/L	9.0	4.5	9		09/21/22 14:00	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-21 **Lab ID: 92625623021** Collected: 09/15/22 16:10 Received: 09/16/22 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/19/22 10:45		
pH	**5.69**	Std. Units			1		09/19/22 10:45		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 17:00	7439-89-6	
Potassium	**6.6**	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 17:00	7440-09-7	
Sodium	**22.4**	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 17:00	7440-23-5	
Calcium	**82.2**	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 17:00	7440-70-2	
Magnesium	**17.5**	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 17:00	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	09/26/22 13:33	09/27/22 21:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 21:02	7440-38-2	
Barium	**0.024**	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 21:02	7440-39-3	
Beryllium	**0.00018J**	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 21:02	7440-41-7	
Boron	**6.7**	mg/L	0.40	0.086	10	09/26/22 13:33	09/28/22 16:54	7440-42-8	
Cadmium	**0.00029J**	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 21:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 21:02	7440-47-3	
Cobalt	**0.0081**	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 21:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 21:02	7439-92-1	
Lithium	**0.0069J**	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 21:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 21:02	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 21:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 21:02	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	10/03/22 11:30	10/03/22 14:13	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**440**	mg/L	25.0	10.0	1		09/20/22 13:21		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**31.6**	mg/L	5.0	5.0	1		09/21/22 17:42		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/21/22 17:42		
Alkalinity, Total as CaCO3	**31.6**	mg/L	5.0	5.0	1		09/21/22 17:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.6**	mg/L	1.0	0.60	1		09/20/22 23:07	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-21 **Lab ID: 92625623021** Collected: 09/15/22 16:10 Received: 09/16/22 16:30 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								
Fluoride	**0.087J**	mg/L	0.10	0.050	1		09/20/22 23:07	16984-48-8	
Sulfate	**268**	mg/L	5.0	2.5	5		09/21/22 15:35	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: EB-5 **Lab ID: 92625623022** Collected: 09/15/22 11:45 Received: 09/16/22 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.028J**	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 17:05	7439-89-6	
Potassium	ND	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 17:05	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 17:05	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 17:05	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 17:05	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00096J**	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 15:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 15:44	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 15:44	7440-39-3	
Beryllium	**0.000080J**	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 15:44	7440-41-7	
Boron	**0.010J**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 15:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 15:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 15:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 15:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 15:44	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 15:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 15:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 15:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 15:44	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	10/03/22 11:30	10/03/22 14:21	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/20/22 13:22		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/21/22 17:49		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/21/22 17:49		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/21/22 17:49		
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		09/20/22 23:22	16887-00-6	
Fluoride	**0.052J**	mg/L	0.10	0.050	1		09/20/22 23:22	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/20/22 23:22	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-22 **Lab ID: 92626314001** Collected: 09/16/22 12:01 Received: 09/16/22 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/19/22 10:47		
pH	**5.62**	Std. Units			1		09/19/22 10:47		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 17:19	7439-89-6	
Potassium	**6.8**	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 17:19	7440-09-7	
Sodium	**30.4**	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 17:19	7440-23-5	
Calcium	**66.2**	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 17:19	7440-70-2	
Magnesium	**22.8**	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 17:19	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	09/27/22 18:00	09/29/22 15:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 15:50	7440-38-2	
Barium	**0.029**	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 15:50	7440-39-3	
Beryllium	**0.00023J**	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 15:50	7440-41-7	
Boron	**4.2**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 15:50	7440-42-8	
Cadmium	**0.00065**	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 15:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 15:50	7440-47-3	
Cobalt	**0.0098**	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 15:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 15:50	7439-92-1	
Lithium	**0.0033J**	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 15:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 15:50	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 15:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 15:50	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	10/03/22 11:30	10/03/22 14:23	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**462**	mg/L	25.0	10.0	1		09/20/22 13:22		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**24.7**	mg/L	5.0	5.0	1		09/21/22 20:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/21/22 20:57		
Alkalinity, Total as CaCO3	**24.7**	mg/L	5.0	5.0	1		09/21/22 20:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**18.0**	mg/L	1.0	0.60	1		09/20/22 23:37	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-22 **Lab ID: 92626314001** Collected: 09/16/22 12:01 Received: 09/16/22 16:30 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								
Fluoride	**0.068J**	mg/L	0.10	0.050	1		09/20/22 23:37	16984-48-8	
Sulfate	**265**	mg/L	5.0	2.5	5		09/21/22 15:50	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-4 **Lab ID: 92626314002** Collected: 09/19/22 13:26 Received: 09/20/22 09:50 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		09/20/22 11:27		
pH	**5.76**	Std. Units			1		09/20/22 11:27		
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	09/28/22 12:36	09/28/22 17:47	7439-89-6	
Potassium	**10.5**	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 17:47	7440-09-7	
Sodium	**59.4**	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 17:47	7440-23-5	
Magnesium	**41.3**	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 17:47	7439-95-4	
Calcium	**376**	mg/L	10.0	1.2	10	09/28/22 12:36	09/29/22 14:03	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	09/27/22 18:00	09/29/22 15:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 15:56	7440-38-2	
Barium	**0.032**	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 15:56	7440-39-3	
Beryllium	**0.00034J**	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 15:56	7440-41-7	
Boron	**4.8**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 15:56	7440-42-8	
Cadmium	**0.00091**	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 15:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 15:56	7440-47-3	
Cobalt	**0.0018J**	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 15:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 15:56	7439-92-1	
Lithium	**0.0037J**	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 15:56	7439-93-2	
Molybdenum	**0.0037J**	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 15:56	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 15:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 15:56	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	10/03/22 11:30	10/03/22 14:26	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**127**	mg/L	5.0	5.0	1		09/21/22 22:42		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/21/22 22:42		
Alkalinity, Total as CaCO3	**127**	mg/L	5.0	5.0	1		09/21/22 22:42		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**1670**	mg/L	50.0	50.0	1		09/23/22 10:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.2**	mg/L	1.0	0.60	1		09/22/22 03:47	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-4 **Lab ID: 92626314002** Collected: 09/19/22 13:26 Received: 09/20/22 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.061J**	mg/L	0.10	0.050	1		09/22/22 03:47	16984-48-8	
Sulfate	**925**	mg/L	16.0	8.0	16		09/22/22 10:08	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-9 **Lab ID: 92626314003** Collected: 09/19/22 11:49 Received: 09/20/22 09:50 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		09/20/22 11:27		
pH	**3.98**	Std. Units			1		09/20/22 11:27		
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	09/28/22 12:36	09/28/22 17:52	7439-89-6	
Potassium	**5.7**	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 17:52	7440-09-7	
Sodium	**34.3**	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 17:52	7440-23-5	
Calcium	**45.1**	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 17:52	7440-70-2	
Magnesium	**8.3**	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 17:52	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	09/27/22 18:00	09/29/22 16:02	7440-36-0	
Arsenic	**0.016**	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 16:02	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 16:02	7440-39-3	
Beryllium	**0.0047**	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 16:02	7440-41-7	
Boron	**0.80**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 16:02	7440-42-8	
Cadmium	**0.00076**	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 16:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 16:02	7440-47-3	
Cobalt	**0.25**	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 16:02	7440-48-4	
Lead	ND	mg/L	0.0050	0.0044	5	09/27/22 18:00	09/30/22 12:48	7439-92-1	D3
Lithium	**0.023J**	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 16:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 16:02	7439-98-7	
Selenium	**0.048**	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 16:02	7782-49-2	
Thallium	ND	mg/L	0.0050	0.00090	5	09/27/22 18:00	09/30/22 12:48	7440-28-0	D3
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00020**	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 14:29	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/22/22 08:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/22/22 08:12		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/22/22 08:12		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**456**	mg/L	25.0	25.0	1		09/23/22 10:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**13.2**	mg/L	1.0	0.60	1		09/22/22 04:02	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-9 **Lab ID: 92626314003** Collected: 09/19/22 11:49 Received: 09/20/22 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.80**	mg/L	0.10	0.050	1		09/22/22 04:02	16984-48-8	
Sulfate	**274**	mg/L	5.0	2.5	5		09/22/22 10:23	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DUP-6 **Lab ID: 92626314004** Collected: 09/19/22 00:00 Received: 09/20/22 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 17:57	7439-89-6	
Potassium	**5.5**	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 17:57	7440-09-7	
Sodium	**33.0**	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 17:57	7440-23-5	
Calcium	**44.6**	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 17:57	7440-70-2	
Magnesium	**8.3**	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 17:57	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	09/27/22 18:00	09/29/22 16:23	7440-36-0	
Arsenic	**0.016**	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 16:23	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 16:23	7440-39-3	
Beryllium	**0.0047**	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 16:23	7440-41-7	
Boron	**0.76**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 16:23	7440-42-8	
Cadmium	**0.00067**	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 16:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 16:23	7440-47-3	
Cobalt	**0.23**	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 16:23	7440-48-4	
Lead	ND	mg/L	0.0050	0.0044	5	09/27/22 18:00	09/30/22 12:54	7439-92-1	D3
Lithium	**0.023J**	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 16:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 16:23	7439-98-7	
Selenium	**0.048**	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 16:23	7782-49-2	
Thallium	ND	mg/L	0.0050	0.00090	5	09/27/22 18:00	09/30/22 12:54	7440-28-0	D3
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00022**	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 14:31	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/22/22 08:16		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/22/22 08:16		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/22/22 08:16		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**457**	mg/L	25.0	25.0	1		09/23/22 10:02		
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		09/22/22 04:18	16887-00-6	
Fluoride	**0.78**	mg/L	0.10	0.050	1		09/22/22 04:18	16984-48-8	
Sulfate	**272**	mg/L	5.0	2.5	5		09/22/22 10:38	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-2 **Lab ID: 92626314005** Collected: 09/20/22 13:16 Received: 09/21/22 15:05 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		09/21/22 16:47		
pH	**5.98**	Std. Units			1		09/21/22 16:47		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/29/22 14:12	09/29/22 18:08	7439-89-6	
Potassium	**5.1**	mg/L	0.20	0.15	1	09/29/22 14:12	09/29/22 18:08	7440-09-7	
Sodium	**9.5**	mg/L	1.0	0.58	1	09/29/22 14:12	09/29/22 18:08	7440-23-5	
Calcium	**37.8**	mg/L	1.0	0.12	1	09/29/22 14:12	09/29/22 18:08	7440-70-2	M1
Magnesium	**7.6**	mg/L	0.050	0.012	1	09/29/22 14:12	09/29/22 18:08	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 16:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 16:29	7440-38-2	
Barium	**0.020**	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 16:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 16:29	7440-41-7	
Boron	**0.42**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 16:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 16:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 16:29	7440-47-3	
Cobalt	**0.0028J**	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 16:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 16:29	7439-92-1	
Lithium	**0.021J**	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 16:29	7439-93-2	
Molybdenum	**0.0021J**	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 16:29	7439-98-7	
Selenium	**0.0018J**	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 16:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 16:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/03/22 13:30	10/03/22 14:39	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**47.5**	mg/L	5.0	5.0	1		09/22/22 22:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/22/22 22:45		
Alkalinity, Total as CaCO3	**47.5**	mg/L	5.0	5.0	1		09/22/22 22:45		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**230**	mg/L	25.0	25.0	1		09/23/22 10:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.0**	mg/L	1.0	0.60	1		09/23/22 02:56	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-2 **Lab ID: 92626314005** Collected: 09/20/22 13:16 Received: 09/21/22 15:05 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								
Fluoride	**0.076J**	mg/L	0.10	0.050	1		09/23/22 02:56	16984-48-8	
Sulfate	**98.4**	mg/L	1.0	0.50	1		09/23/22 02:56	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-23 **Lab ID: 92626314006** Collected: 09/20/22 10:42 Received: 09/21/22 15:05 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		09/21/22 16:47		
pH	**6.00**	Std. Units			1		09/21/22 16:47		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/29/22 14:12	09/29/22 18:27	7439-89-6	
Potassium	**7.7**	mg/L	0.20	0.15	1	09/29/22 14:12	09/29/22 18:27	7440-09-7	
Sodium	**22.9**	mg/L	1.0	0.58	1	09/29/22 14:12	09/29/22 18:27	7440-23-5	
Calcium	**90.0**	mg/L	1.0	0.12	1	09/29/22 14:12	09/29/22 18:27	7440-70-2	
Magnesium	**20.4**	mg/L	0.050	0.012	1	09/29/22 14:12	09/29/22 18:27	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 16:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 16:35	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 16:35	7440-39-3	
Beryllium	**0.00037J**	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 16:35	7440-41-7	
Boron	**4.6**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 16:35	7440-42-8	
Cadmium	**0.00017J**	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 16:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 16:35	7440-47-3	
Cobalt	**0.00053J**	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 16:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 16:35	7439-92-1	
Lithium	**0.0051J**	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 16:35	7439-93-2	
Molybdenum	**0.0095J**	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 16:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 16:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 16:35	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/03/22 13:30	10/03/22 14:42	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**87.3**	mg/L	5.0	5.0	1		09/22/22 22:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/22/22 22:52		
Alkalinity, Total as CaCO3	**87.3**	mg/L	5.0	5.0	1		09/22/22 22:52		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**511**	mg/L	25.0	25.0	1		09/23/22 10:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.6**	mg/L	1.0	0.60	1		09/23/22 03:11	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Sample: DGWC-23 **Lab ID: 92626314006** Collected: 09/20/22 10:42 Received: 09/21/22 15:05 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								
Fluoride	**0.11**	mg/L	0.10	0.050	1		09/23/22 03:11	16984-48-8	
Sulfate	**242**	mg/L	4.0	2.0	4		09/23/22 04:42	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 725787
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623006, 92625623007, 92625623008, 92625623009, 92625623010, 92625623011, 92625623015, 92625623016, 92625623017, 92625623018, 92625623019, 92625623020

METHOD BLANK: 3780823 Matrix: Water
Associated Lab Samples: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623006, 92625623007, 92625623008, 92625623009, 92625623010, 92625623011, 92625623015, 92625623016, 92625623017, 92625623018, 92625623019, 92625623020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/26/22 20:39	
Iron	mg/L	ND	0.040	0.025	09/26/22 20:39	
Magnesium	mg/L	ND	0.050	0.012	09/26/22 20:39	
Potassium	mg/L	ND	0.20	0.15	09/26/22 20:39	
Sodium	mg/L	ND	1.0	0.58	09/26/22 20:39	

LABORATORY CONTROL SAMPLE: 3780824

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	105	80-120	
Iron	mg/L	1	1.0	104	80-120	
Magnesium	mg/L	1	1.1	106	80-120	
Potassium	mg/L	1	0.98	98	80-120	
Sodium	mg/L	1	1.1	113	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3780825 3780826

Parameter	Units	92625623001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	11.2	1	1	11.8	12.0	61	81	75-125	2	20	M1
Iron	mg/L	0.040	1	1	1.1	1.1	102	101	75-125	1	20	
Magnesium	mg/L	4.7	1	1	5.5	5.6	83	94	75-125	2	20	
Potassium	mg/L	3.2	1	1	4.1	4.1	95	93	75-125	0	20	
Sodium	mg/L	7.0	1	1	7.7	7.8	73	80	75-125	1	20	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 726415
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625623021, 92625623022, 92626314001, 92626314002, 92626314003, 92626314004

METHOD BLANK: 3783437 Matrix: Water
Associated Lab Samples: 92625623021, 92625623022, 92626314001, 92626314002, 92626314003, 92626314004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/28/22 16:00	
Iron	mg/L	ND	0.040	0.025	09/28/22 16:00	
Magnesium	mg/L	ND	0.050	0.012	09/28/22 16:00	
Potassium	mg/L	ND	0.20	0.15	09/28/22 16:00	
Sodium	mg/L	ND	1.0	0.58	09/28/22 16:00	

LABORATORY CONTROL SAMPLE: 3783438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Iron	mg/L	1	1.0	104	80-120	
Magnesium	mg/L	1	1.1	108	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Sodium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3783439 3783440

Parameter	Units	92625189005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	10.4	1	1	11.7	11.7	130	136	75-125	1	20	M1
Iron	mg/L	1.5	1	1	2.6	2.6	106	107	75-125	0	20	
Magnesium	mg/L	3.2	1	1	4.3	4.4	113	123	75-125	2	20	
Potassium	mg/L	2.0	1	1	3.0	3.1	103	108	75-125	2	20	
Sodium	mg/L	10.2	1	1	11.5	11.5	129	135	75-125	0	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 726808
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92626314005, 92626314006

METHOD BLANK: 3785265 Matrix: Water
Associated Lab Samples: 92626314005, 92626314006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/29/22 17:58	
Iron	mg/L	ND	0.040	0.025	09/29/22 17:58	
Magnesium	mg/L	ND	0.050	0.012	09/29/22 17:58	
Potassium	mg/L	ND	0.20	0.15	09/29/22 17:58	
Sodium	mg/L	ND	1.0	0.58	09/29/22 17:58	

LABORATORY CONTROL SAMPLE: 3785266

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.93J	93	80-120	
Iron	mg/L	1	1.0	101	80-120	
Magnesium	mg/L	1	0.98	98	80-120	
Potassium	mg/L	1	0.96	96	80-120	
Sodium	mg/L	1	1.2	116	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3785267 3785268

Parameter	Units	92626314005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	37.8	1	1	39.0	39.3	119	152	75-125	1	20	M1
Iron	mg/L	ND	1	1	1.0	1.1	102	104	75-125	3	20	
Magnesium	mg/L	7.6	1	1	8.6	8.6	103	103	75-125	0	20	
Potassium	mg/L	5.1	1	1	6.1	6.0	107	90	75-125	3	20	
Sodium	mg/L	9.5	1	1	10.7	10.6	113	105	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 725627
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623006, 92625623007, 92625623008, 92625623009

METHOD BLANK: 3780267 Matrix: Water
Associated Lab Samples: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623006, 92625623007, 92625623008, 92625623009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/26/22 20:51	
Arsenic	mg/L	ND	0.0050	0.0022	09/26/22 20:51	
Barium	mg/L	ND	0.0050	0.00067	09/26/22 20:51	
Beryllium	mg/L	ND	0.00050	0.000054	09/26/22 20:51	
Boron	mg/L	ND	0.040	0.0086	09/26/22 20:51	
Cadmium	mg/L	ND	0.00050	0.00011	09/26/22 20:51	
Chromium	mg/L	ND	0.0050	0.0011	09/26/22 20:51	
Cobalt	mg/L	ND	0.0050	0.00039	09/26/22 20:51	
Lead	mg/L	ND	0.0010	0.00089	09/26/22 20:51	
Lithium	mg/L	ND	0.030	0.00073	09/26/22 20:51	
Molybdenum	mg/L	ND	0.010	0.00074	09/26/22 20:51	
Selenium	mg/L	ND	0.0050	0.0014	09/26/22 20:51	
Thallium	mg/L	ND	0.0010	0.00018	09/26/22 20:51	

LABORATORY CONTROL SAMPLE: 3780268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.10	104	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	107	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3780269 3780270

Parameter	Units	92625185001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	111	110	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3780269 3780270

Parameter	Units	92625185001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	2	20	
Barium	mg/L	0.017	0.1	0.1	0.12	0.12	102	103	75-125	1	20	
Beryllium	mg/L	0.0040	0.1	0.1	0.10	0.10	101	98	75-125	3	20	
Boron	mg/L	1.8	1	1	2.8	2.8	98	99	75-125	0	20	
Cadmium	mg/L	0.00047J	0.1	0.1	0.10	0.10	104	100	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.094	0.092	93	92	75-125	2	20	
Cobalt	mg/L	0.0036J	0.1	0.1	0.097	0.095	93	91	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20	
Lithium	mg/L	0.0028J	0.1	0.1	0.11	0.11	106	102	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	103	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 725788
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625623010, 92625623011, 92625623015, 92625623016, 92625623017, 92625623018, 92625623019, 92625623020, 92625623021

METHOD BLANK: 3780835 Matrix: Water
Associated Lab Samples: 92625623010, 92625623011, 92625623015, 92625623016, 92625623017, 92625623018, 92625623019, 92625623020, 92625623021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/27/22 18:21	
Arsenic	mg/L	ND	0.0050	0.0022	09/27/22 18:21	
Barium	mg/L	ND	0.0050	0.00067	09/27/22 18:21	
Beryllium	mg/L	ND	0.00050	0.000054	09/27/22 18:21	
Boron	mg/L	ND	0.040	0.0086	09/27/22 18:21	
Cadmium	mg/L	ND	0.00050	0.00011	09/27/22 18:21	
Chromium	mg/L	ND	0.0050	0.0011	09/27/22 18:21	
Cobalt	mg/L	ND	0.0050	0.00039	09/27/22 18:21	
Lead	mg/L	ND	0.0010	0.00089	09/27/22 18:21	
Lithium	mg/L	ND	0.030	0.00073	09/27/22 18:21	
Molybdenum	mg/L	ND	0.010	0.00074	09/27/22 18:21	
Selenium	mg/L	ND	0.0050	0.0014	09/27/22 18:21	
Thallium	mg/L	ND	0.0010	0.00018	09/27/22 18:21	

LABORATORY CONTROL SAMPLE: 3780836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.11	108	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3780837 3780838

Parameter	Units	92625178001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	104	106	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3780837 3780838

Parameter	Units	92625178001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	99	98	75-125	1	20	
Barium	mg/L	0.017	0.1	0.1	0.11	0.11	94	95	75-125	0	20	
Beryllium	mg/L	0.017	0.1	0.1	0.11	0.11	94	92	75-125	2	20	
Boron	mg/L	2.9	1	1	3.7	3.7	80	81	75-125	0	20	
Cadmium	mg/L	0.0014	0.1	0.1	0.10	0.098	98	97	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.092	0.093	91	92	75-125	1	20	
Cobalt	mg/L	0.073	0.1	0.1	0.16	0.16	91	91	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.087	0.087	87	87	75-125	0	20	
Lithium	mg/L	0.015J	0.1	0.1	0.12	0.12	102	102	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	99	75-125	2	20	
Selenium	mg/L	0.012	0.1	0.1	0.11	0.11	96	96	75-125	0	20	
Thallium	mg/L	0.00020J	0.1	0.1	0.088	0.088	88	88	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 726205
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625623022, 92626314001, 92626314002, 92626314003, 92626314004, 92626314005, 92626314006

METHOD BLANK: 3782736 Matrix: Water
Associated Lab Samples: 92625623022, 92626314001, 92626314002, 92626314003, 92626314004, 92626314005, 92626314006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/29/22 14:50	
Arsenic	mg/L	ND	0.0050	0.0022	09/29/22 14:50	
Barium	mg/L	ND	0.0050	0.00067	09/29/22 14:50	
Beryllium	mg/L	ND	0.00050	0.000054	09/29/22 14:50	
Boron	mg/L	ND	0.040	0.0086	09/29/22 14:50	
Cadmium	mg/L	ND	0.00050	0.00011	09/29/22 14:50	
Chromium	mg/L	ND	0.0050	0.0011	09/29/22 14:50	
Cobalt	mg/L	ND	0.0050	0.00039	09/29/22 14:50	
Lead	mg/L	ND	0.0010	0.00089	09/29/22 14:50	
Lithium	mg/L	ND	0.030	0.00073	09/29/22 14:50	
Molybdenum	mg/L	ND	0.010	0.00074	09/29/22 14:50	
Selenium	mg/L	ND	0.0050	0.0014	09/29/22 14:50	
Thallium	mg/L	ND	0.0010	0.00018	09/29/22 14:50	

LABORATORY CONTROL SAMPLE: 3782737

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.099	99	80-120	
Arsenic	mg/L	0.1	0.095	95	80-120	
Barium	mg/L	0.1	0.094	94	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.095	95	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3782738 3782739

Parameter	Units	92625189010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.098	0.10	97	101	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.094	0.097	93	96	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3782738 3782739

Parameter	Units	92625189010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.043	0.1	0.1	0.13	0.14	90	93	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.089	0.092	89	92	75-125	4	20	
Boron	mg/L	0.011J	1	1	0.92	0.98	91	97	75-125	6	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.097	0.10	96	100	75-125	4	20	
Cobalt	mg/L	ND	0.1	0.1	0.098	0.10	98	103	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.093	0.098	93	98	75-125	5	20	
Lithium	mg/L	0.0094J	0.1	0.1	0.099	0.10	90	94	75-125	4	20	
Molybdenum	mg/L	ND	0.1	0.1	0.095	0.10	95	100	75-125	6	20	
Selenium	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.094	0.098	94	98	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 725890
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623006, 92625623007, 92625623008, 92625623009, 92625623010, 92625623011

METHOD BLANK: 3781485 Matrix: Water
Associated Lab Samples: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623006, 92625623007, 92625623008, 92625623009, 92625623010, 92625623011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/27/22 11:00	

LABORATORY CONTROL SAMPLE: 3781486

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: 3781487 3781488

Parameter	Units	92624372011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0018	94	71	75-125	28	20	M1,R1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 727398
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625623015, 92625623016, 92625623017, 92625623018, 92625623019, 92625623020, 92625623021, 92625623022, 92626314001, 92626314002, 92626314003, 92626314004

METHOD BLANK: 3787972 Matrix: Water
Associated Lab Samples: 92625623015, 92625623016, 92625623017, 92625623018, 92625623019, 92625623020, 92625623021, 92625623022, 92626314001, 92626314002, 92626314003, 92626314004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	10/03/22 13:17	

LABORATORY CONTROL SAMPLE: 3787973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3787974 3787975

Parameter	Units	92625178002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.00016J	0.0025	0.0025	0.0022	0.0022	82	81	75-125	1	20	

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 727400
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92626314005, 92626314006

METHOD BLANK: 3787980 Matrix: Water
Associated Lab Samples: 92626314005, 92626314006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	10/03/22 14:34	

LABORATORY CONTROL SAMPLE: 3787981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0021	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3787982 3787983

Parameter	Units	92627093001 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	0.0019	0.0020	73	76	75-125	4	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 723649 | 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: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623006, 92625623007

METHOD BLANK: 3770574 Matrix: Water
Associated Lab Samples: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623006, 92625623007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/16/22 14:32	

LABORATORY CONTROL SAMPLE: 3770575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	376	94	80-120	

SAMPLE DUPLICATE: 3770576

Parameter	Units	92625261006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	119	120	1	10	

SAMPLE DUPLICATE: 3770577

Parameter	Units	92625178007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	214	213	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 724043 | 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: 92625623008, 92625623009, 92625623010, 92625623011

METHOD BLANK: 3772705 Matrix: Water
Associated Lab Samples: 92625623008, 92625623009, 92625623010, 92625623011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/19/22 09:17	

LABORATORY CONTROL SAMPLE: 3772706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	386	96	80-120	

SAMPLE DUPLICATE: 3772708

Parameter	Units	92625623010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	572	582	2	10	

SAMPLE DUPLICATE: 3772903

Parameter	Units	92625178010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	582	578	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 724233 | 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: 92625623015, 92625623016, 92625623017, 92625623018, 92625623019, 92625623020, 92625623021, 92625623022, 92626314001

METHOD BLANK: 3773743 Matrix: Water
Associated Lab Samples: 92625623015, 92625623016, 92625623017, 92625623018, 92625623019, 92625623020, 92625623021, 92625623022, 92626314001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/20/22 13:21	

LABORATORY CONTROL SAMPLE: 3773744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	346	86	80-120	

SAMPLE DUPLICATE: 3773745

Parameter	Units	92625623012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	437	420	4	10	

SAMPLE DUPLICATE: 3773746

Parameter	Units	92625623021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	440	405	8	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 724377
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623018, 92625623019, 92625623020

METHOD BLANK: 3774158 Matrix: Water
Associated Lab Samples: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623018, 92625623019, 92625623020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/20/22 11:40	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/20/22 11:40	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/20/22 11:40	

LABORATORY CONTROL SAMPLE: 3774159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.3	103	80-120	

LABORATORY CONTROL SAMPLE: 3774160

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.1	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774163 3774164

Parameter	Units	92625178004 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	54.0	50	50	108	107	108	106	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774267 3774268

Parameter	Units	92625623018 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	33.6	50	50	77.4	78.7	88	90	80-120	2	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 724379
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625623006, 92625623007, 92625623008, 92625623009, 92625623010, 92625623011, 92625623015, 92625623016, 92625623017

METHOD BLANK: 3774170 Matrix: Water
Associated Lab Samples: 92625623006, 92625623007, 92625623008, 92625623009, 92625623010, 92625623011, 92625623015, 92625623016, 92625623017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/20/22 15:05	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/20/22 15:05	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/20/22 15:05	

LABORATORY CONTROL SAMPLE: 3774171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.8	104	80-120	

LABORATORY CONTROL SAMPLE: 3774172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774173 3774174

Parameter	Units	92625623006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	50.8	51.4	102	103	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774175 3774176

Parameter	Units	92625623011 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	56.4	56.1	104	104	80-120	1	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 724723
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625623021, 92625623022

METHOD BLANK: 3775735 Matrix: Water
Associated Lab Samples: 92625623021, 92625623022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/21/22 15:07	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/21/22 15:07	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/21/22 15:07	

LABORATORY CONTROL SAMPLE: 3775736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.0	104	80-120	

LABORATORY CONTROL SAMPLE: 3775737

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.9	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775740 3775741

Parameter	Units	92626676002 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	47.0	47.5	94	95	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3776576 3776577

Parameter	Units	92625623021 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	31.6	50	50	83.5	83.3	104	103	80-120	0	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 724724
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92626314001, 92626314002, 92626314003, 92626314004

METHOD BLANK: 3775744 Matrix: Water
Associated Lab Samples: 92626314001, 92626314002, 92626314003, 92626314004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/21/22 20:39	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/21/22 20:39	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/21/22 20:39	

LABORATORY CONTROL SAMPLE: 3775745

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

LABORATORY CONTROL SAMPLE: 3775746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775747 3775748

Parameter	Units	92626314001 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	24.7	50	50	76.3	74.5	103	99	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775749 3775750

Parameter	Units	92626676015 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	52.0	51.2	103	102	80-120	2	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 725081
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92626314005, 92626314006

METHOD BLANK: 3777562 Matrix: Water
Associated Lab Samples: 92626314005, 92626314006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/23/22 14:29	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/23/22 14:29	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/23/22 14:29	

LABORATORY CONTROL SAMPLE: 3777563

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.5	101	80-120	

LABORATORY CONTROL SAMPLE: 3777564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.4	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777565 3777566

Parameter	Units	92626727004 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	449	50	50	471	468	43	37	80-120	1	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777567 3777568

Parameter	Units	92626727005 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	149	50	50	207	200	116	103	80-120	3	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 725355 | Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92626314002, 92626314003, 92626314004, 92626314005, 92626314006

METHOD BLANK: 3778984 Matrix: Water
Associated Lab Samples: 92626314002, 92626314003, 92626314004, 92626314005, 92626314006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/23/22 10:01	

LABORATORY CONTROL SAMPLE: 3778985

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	242	97	90-110	

SAMPLE DUPLICATE: 3778986

Parameter	Units	92626923001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	29.0	33.0	13	25	

SAMPLE DUPLICATE: 3778987

Parameter	Units	92626865001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2430	2480	2	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 723824
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623006

METHOD BLANK: 3771604 Matrix: Water
Associated Lab Samples: 92625623001, 92625623002, 92625623003, 92625623004, 92625623005, 92625623006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/17/22 16:27	
Fluoride	mg/L	ND	0.10	0.050	09/17/22 16:27	
Sulfate	mg/L	ND	1.0	0.50	09/17/22 16:27	

LABORATORY CONTROL SAMPLE: 3771605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.5	103	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	51.9	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3771606 3771607

Parameter	Units	92625657001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.5	50	50	56.7	57.0	102	103	90-110	0	10	
Fluoride	mg/L	0.10	2.5	2.5	2.4	2.4	93	93	90-110	0	10	
Sulfate	mg/L	5.4	50	50	56.6	56.8	103	103	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3771608 3771609

Parameter	Units	92625178005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.9	50	50	56.3	56.5	103	103	90-110	0	10	
Fluoride	mg/L	0.18	2.5	2.5	2.5	2.5	93	93	90-110	0	10	
Sulfate	mg/L	92.1	50	50	143	144	103	103	90-110	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 723831
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92625623007

METHOD BLANK: 3771675 Matrix: Water
Associated Lab Samples: 92625623007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/20/22 14:18	
Fluoride	mg/L	ND	0.10	0.050	09/20/22 14:18	
Sulfate	mg/L	ND	1.0	0.50	09/20/22 14:18	

LABORATORY CONTROL SAMPLE: 3771676

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	2.4	95	90-110	
Sulfate	mg/L	50	51.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3771677 3771678

Parameter	Units	92625623007 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	58.2	57.9	116	116	90-110	1	10	M1
Fluoride	mg/L	ND	2.5	2.5	2.9	2.8	114	112	90-110	2	10	M1
Sulfate	mg/L	ND	50	50	56.3	57.1	112	114	90-110	1	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 724055
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625623008, 92625623009, 92625623010, 92625623011

METHOD BLANK: 3772745 Matrix: Water
Associated Lab Samples: 92625623008, 92625623009, 92625623010, 92625623011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/19/22 00:00	
Fluoride	mg/L	ND	0.10	0.050	09/19/22 00:00	
Sulfate	mg/L	ND	1.0	0.50	09/19/22 00:00	

LABORATORY CONTROL SAMPLE: 3772746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3772749 3772750

Parameter	Units	92625178011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.3	50	50	61.5	61.6	102	103	90-110	0	10	
Fluoride	mg/L	0.38	2.5	2.5	3.0	3.0	106	107	90-110	1	10	
Sulfate	mg/L	228	50	50	276	279	97	102	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3772755 3772756

Parameter	Units	92625980001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.6	50	50	53.2	53.2	101	101	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	101	102	90-110	0	10	
Sulfate	mg/L	5.5	50	50	56.9	56.6	103	102	90-110	0	10	

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REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 724437
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625623015, 92625623016, 92625623017, 92625623018, 92625623019, 92625623020, 92625623021, 92625623022, 92626314001

METHOD BLANK: 3774398 Matrix: Water
Associated Lab Samples: 92625623015, 92625623016, 92625623017, 92625623018, 92625623019, 92625623020, 92625623021, 92625623022, 92626314001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/20/22 18:23	
Fluoride	mg/L	ND	0.10	0.050	09/20/22 18:23	
Sulfate	mg/L	ND	1.0	0.50	09/20/22 18:23	

LABORATORY CONTROL SAMPLE: 3774399

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.4	99	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	50.2	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774400 3774401

Parameter	Units	92626469002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	105	50	50	159	159	108	107	90-110	0	10	
Fluoride	mg/L	0.49	2.5	2.5	3.1	3.2	106	107	90-110	1	10	
Sulfate	mg/L	31.2	50	50	82.4	82.6	102	103	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774402 3774403

Parameter	Units	92625623020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	26.2	50	50	77.4	77.1	102	102	90-110	0	10	
Fluoride	mg/L	0.69	2.5	2.5	3.2	3.3	102	104	90-110	1	10	
Sulfate	mg/L	462	50	50	509	510	92	95	90-110	0	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 724821
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92626314002, 92626314003, 92626314004

METHOD BLANK: 3776265 Matrix: Water
Associated Lab Samples: 92626314002, 92626314003, 92626314004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/22/22 02:00	
Fluoride	mg/L	ND	0.10	0.050	09/22/22 02:00	
Sulfate	mg/L	ND	1.0	0.50	09/22/22 02:00	

LABORATORY CONTROL SAMPLE: 3776266

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.4	97	90-110	
Fluoride	mg/L	2.5	2.5	102	90-110	
Sulfate	mg/L	50	48.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3776267 3776268

Parameter	Units	92625186007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	369	50	50	418	412	98	87	90-110	1	10	M1
Fluoride	mg/L	15.4	2.5	2.5	17.5	17.2	81	72	90-110	1	10	M1
Sulfate	mg/L	72.6	50	50	115	113	85	81	90-110	1	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

QC Batch: 725140
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92626314005, 92626314006

METHOD BLANK: 3777923 Matrix: Water
Associated Lab Samples: 92626314005, 92626314006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/22/22 20:18	
Fluoride	mg/L	ND	0.10	0.050	09/22/22 20:18	
Sulfate	mg/L	ND	1.0	0.50	09/22/22 20:18	

LABORATORY CONTROL SAMPLE: 3777924

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.3	95	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	47.6	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777925 3777926

Parameter	Units	92626959007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	12.9	50	50	61.1	61.1	96	96	90-110	0	10	
Fluoride	mg/L	0.23	2.5	2.5	2.7	2.7	98	97	90-110	1	10	
Sulfate	mg/L	31.0	50	50	79.4	79.5	97	97	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777927 3777928

Parameter	Units	92626959011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	15.2	50	50	63.1	63.7	96	97	90-110	1	10	
Fluoride	mg/L	0.38	2.5	2.5	2.9	2.9	101	102	90-110	1	10	
Sulfate	mg/L	ND	50	50	47.9	48.6	95	96	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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(770)734-4200

QUALIFIERS

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

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.
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: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625623001	DGWC-14				
92625623002	DGWC-15				
92625623003	DGWC-42				
92625623004	DGWC-47				
92625623005	DGWC-48				
92625623008	DGWC-5				
92625623009	DGWC-17				
92625623010	DGWC-19				
92625623015	DGWC-8				
92625623016	DGWC-10				
92625623017	DGWC-11				
92625623018	DGWC-12				
92625623019	DGWC-13				
92625623020	DGWC-20				
92625623021	DGWC-21				
92626314001	DGWC-22				
92626314002	DGWC-4				
92626314003	DGWC-9				
92626314005	DGWC-2				
92626314006	DGWC-23				
92625623001	DGWC-14	EPA 3010A	725787	EPA 6010D	725888
92625623002	DGWC-15	EPA 3010A	725787	EPA 6010D	725888
92625623003	DGWC-42	EPA 3010A	725787	EPA 6010D	725888
92625623004	DGWC-47	EPA 3010A	725787	EPA 6010D	725888
92625623005	DGWC-48	EPA 3010A	725787	EPA 6010D	725888
92625623006	EB-3	EPA 3010A	725787	EPA 6010D	725888
92625623007	FB-4	EPA 3010A	725787	EPA 6010D	725888
92625623008	DGWC-5	EPA 3010A	725787	EPA 6010D	725888
92625623009	DGWC-17	EPA 3010A	725787	EPA 6010D	725888
92625623010	DGWC-19	EPA 3010A	725787	EPA 6010D	725888
92625623011	DUP-5	EPA 3010A	725787	EPA 6010D	725888
92625623015	DGWC-8	EPA 3010A	725787	EPA 6010D	725888
92625623016	DGWC-10	EPA 3010A	725787	EPA 6010D	725888
92625623017	DGWC-11	EPA 3010A	725787	EPA 6010D	725888
92625623018	DGWC-12	EPA 3010A	725787	EPA 6010D	725888
92625623019	DGWC-13	EPA 3010A	725787	EPA 6010D	725888
92625623020	DGWC-20	EPA 3010A	725787	EPA 6010D	725888
92625623021	DGWC-21	EPA 3010A	726415	EPA 6010D	726515
92625623022	EB-5	EPA 3010A	726415	EPA 6010D	726515
92626314001	DGWC-22	EPA 3010A	726415	EPA 6010D	726515
92626314002	DGWC-4	EPA 3010A	726415	EPA 6010D	726515
92626314003	DGWC-9	EPA 3010A	726415	EPA 6010D	726515
92626314004	DUP-6	EPA 3010A	726415	EPA 6010D	726515
92626314005	DGWC-2	EPA 3010A	726808	EPA 6010D	726883
92626314006	DGWC-23	EPA 3010A	726808	EPA 6010D	726883
92625623001	DGWC-14	EPA 3005A	725627	EPA 6020B	725817
92625623002	DGWC-15	EPA 3005A	725627	EPA 6020B	725817

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625623003	**DGWC-42**	EPA 3005A	725627	EPA 6020B	725817
92625623004	**DGWC-47**	EPA 3005A	725627	EPA 6020B	725817
92625623005	**DGWC-48**	EPA 3005A	725627	EPA 6020B	725817
92625623006	**EB-3**	EPA 3005A	725627	EPA 6020B	725817
92625623007	**FB-4**	EPA 3005A	725627	EPA 6020B	725817
92625623008	**DGWC-5**	EPA 3005A	725627	EPA 6020B	725817
92625623009	**DGWC-17**	EPA 3005A	725627	EPA 6020B	725817
92625623010	**DGWC-19**	EPA 3005A	725788	EPA 6020B	725909
92625623011	**DUP-5**	EPA 3005A	725788	EPA 6020B	725909
92625623015	**DGWC-8**	EPA 3005A	725788	EPA 6020B	725909
92625623016	**DGWC-10**	EPA 3005A	725788	EPA 6020B	725909
92625623017	**DGWC-11**	EPA 3005A	725788	EPA 6020B	725909
92625623018	**DGWC-12**	EPA 3005A	725788	EPA 6020B	725909
92625623019	**DGWC-13**	EPA 3005A	725788	EPA 6020B	725909
92625623020	**DGWC-20**	EPA 3005A	725788	EPA 6020B	725909
92625623021	**DGWC-21**	EPA 3005A	725788	EPA 6020B	725909
92625623022	**EB-5**	EPA 3005A	726205	EPA 6020B	726325
92626314001	**DGWC-22**	EPA 3005A	726205	EPA 6020B	726325
92626314002	**DGWC-4**	EPA 3005A	726205	EPA 6020B	726325
92626314003	**DGWC-9**	EPA 3005A	726205	EPA 6020B	726325
92626314004	**DUP-6**	EPA 3005A	726205	EPA 6020B	726325
92626314005	**DGWC-2**	EPA 3005A	726205	EPA 6020B	726325
92626314006	**DGWC-23**	EPA 3005A	726205	EPA 6020B	726325
92625623001	**DGWC-14**	EPA 7470A	725890	EPA 7470A	726012
92625623002	**DGWC-15**	EPA 7470A	725890	EPA 7470A	726012
92625623003	**DGWC-42**	EPA 7470A	725890	EPA 7470A	726012
92625623004	**DGWC-47**	EPA 7470A	725890	EPA 7470A	726012
92625623005	**DGWC-48**	EPA 7470A	725890	EPA 7470A	726012
92625623006	**EB-3**	EPA 7470A	725890	EPA 7470A	726012
92625623007	**FB-4**	EPA 7470A	725890	EPA 7470A	726012
92625623008	**DGWC-5**	EPA 7470A	725890	EPA 7470A	726012
92625623009	**DGWC-17**	EPA 7470A	725890	EPA 7470A	726012
92625623010	**DGWC-19**	EPA 7470A	725890	EPA 7470A	726012
92625623011	**DUP-5**	EPA 7470A	725890	EPA 7470A	726012
92625623015	**DGWC-8**	EPA 7470A	727398	EPA 7470A	727474
92625623016	**DGWC-10**	EPA 7470A	727398	EPA 7470A	727474
92625623017	**DGWC-11**	EPA 7470A	727398	EPA 7470A	727474
92625623018	**DGWC-12**	EPA 7470A	727398	EPA 7470A	727474
92625623019	**DGWC-13**	EPA 7470A	727398	EPA 7470A	727474
92625623020	**DGWC-20**	EPA 7470A	727398	EPA 7470A	727474
92625623021	**DGWC-21**	EPA 7470A	727398	EPA 7470A	727474
92625623022	**EB-5**	EPA 7470A	727398	EPA 7470A	727474
92626314001	**DGWC-22**	EPA 7470A	727398	EPA 7470A	727474
92626314002	**DGWC-4**	EPA 7470A	727398	EPA 7470A	727474
92626314003	**DGWC-9**	EPA 7470A	727398	EPA 7470A	727474
92626314004	**DUP-6**	EPA 7470A	727398	EPA 7470A	727474

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92626314005	**DGWC-2**	EPA 7470A	727400	EPA 7470A	727475
92626314006	**DGWC-23**	EPA 7470A	727400	EPA 7470A	727475
92625623001	**DGWC-14**	SM 2540C-2015	723649		
92625623002	**DGWC-15**	SM 2540C-2015	723649		
92625623003	**DGWC-42**	SM 2540C-2015	723649		
92625623004	**DGWC-47**	SM 2540C-2015	723649		
92625623005	**DGWC-48**	SM 2540C-2015	723649		
92625623006	**EB-3**	SM 2540C-2015	723649		
92625623007	**FB-4**	SM 2540C-2015	723649		
92625623008	**DGWC-5**	SM 2540C-2015	724043		
92625623009	**DGWC-17**	SM 2540C-2015	724043		
92625623010	**DGWC-19**	SM 2540C-2015	724043		
92625623011	**DUP-5**	SM 2540C-2015	724043		
92625623015	**DGWC-8**	SM 2540C-2015	724233		
92625623016	**DGWC-10**	SM 2540C-2015	724233		
92625623017	**DGWC-11**	SM 2540C-2015	724233		
92625623018	**DGWC-12**	SM 2540C-2015	724233		
92625623019	**DGWC-13**	SM 2540C-2015	724233		
92625623020	**DGWC-20**	SM 2540C-2015	724233		
92625623021	**DGWC-21**	SM 2540C-2015	724233		
92625623022	**EB-5**	SM 2540C-2015	724233		
92626314001	**DGWC-22**	SM 2540C-2015	724233		
92625623001	**DGWC-14**	SM 2320B-2011	724377		
92625623002	**DGWC-15**	SM 2320B-2011	724377		
92625623003	**DGWC-42**	SM 2320B-2011	724377		
92625623004	**DGWC-47**	SM 2320B-2011	724377		
92625623005	**DGWC-48**	SM 2320B-2011	724377		
92625623006	**EB-3**	SM 2320B-2011	724379		
92625623007	**FB-4**	SM 2320B-2011	724379		
92625623008	**DGWC-5**	SM 2320B-2011	724379		
92625623009	**DGWC-17**	SM 2320B-2011	724379		
92625623010	**DGWC-19**	SM 2320B-2011	724379		
92625623011	**DUP-5**	SM 2320B-2011	724379		
92625623015	**DGWC-8**	SM 2320B-2011	724379		
92625623016	**DGWC-10**	SM 2320B-2011	724379		
92625623017	**DGWC-11**	SM 2320B-2011	724379		
92625623018	**DGWC-12**	SM 2320B-2011	724377		
92625623019	**DGWC-13**	SM 2320B-2011	724377		
92625623020	**DGWC-20**	SM 2320B-2011	724377		
92625623021	**DGWC-21**	SM 2320B-2011	724723		
92625623022	**EB-5**	SM 2320B-2011	724723		
92626314001	**DGWC-22**	SM 2320B-2011	724724		
92626314002	**DGWC-4**	SM 2320B-2011	724724		
92626314003	**DGWC-9**	SM 2320B-2011	724724		
92626314004	**DUP-6**	SM 2320B-2011	724724		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-2-3/4 Detection-Revised Report
Pace Project No.: 92625623

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92626314005	**DGWC-2**	SM 2320B-2011	725081		
92626314006	**DGWC-23**	SM 2320B-2011	725081		
92626314002	**DGWC-4**	SM 2540C-2011	725355		
92626314003	**DGWC-9**	SM 2540C-2011	725355		
92626314004	**DUP-6**	SM 2540C-2011	725355		
92626314005	**DGWC-2**	SM 2540C-2011	725355		
92626314006	**DGWC-23**	SM 2540C-2011	725355		
92625623001	**DGWC-14**	EPA 300.0 Rev 2.1 1993	723824		
92625623002	**DGWC-15**	EPA 300.0 Rev 2.1 1993	723824		
92625623003	**DGWC-42**	EPA 300.0 Rev 2.1 1993	723824		
92625623004	**DGWC-47**	EPA 300.0 Rev 2.1 1993	723824		
92625623005	**DGWC-48**	EPA 300.0 Rev 2.1 1993	723824		
92625623006	**EB-3**	EPA 300.0 Rev 2.1 1993	723824		
92625623007	**FB-4**	EPA 300.0 Rev 2.1 1993	723831		
92625623008	**DGWC-5**	EPA 300.0 Rev 2.1 1993	724055		
92625623009	**DGWC-17**	EPA 300.0 Rev 2.1 1993	724055		
92625623010	**DGWC-19**	EPA 300.0 Rev 2.1 1993	724055		
92625623011	**DUP-5**	EPA 300.0 Rev 2.1 1993	724055		
92625623015	**DGWC-8**	EPA 300.0 Rev 2.1 1993	724437		
92625623016	**DGWC-10**	EPA 300.0 Rev 2.1 1993	724437		
92625623017	**DGWC-11**	EPA 300.0 Rev 2.1 1993	724437		
92625623018	**DGWC-12**	EPA 300.0 Rev 2.1 1993	724437		
92625623019	**DGWC-13**	EPA 300.0 Rev 2.1 1993	724437		
92625623020	**DGWC-20**	EPA 300.0 Rev 2.1 1993	724437		
92625623021	**DGWC-21**	EPA 300.0 Rev 2.1 1993	724437		
92625623022	**EB-5**	EPA 300.0 Rev 2.1 1993	724437		
92626314001	**DGWC-22**	EPA 300.0 Rev 2.1 1993	724437		
92626314002	**DGWC-4**	EPA 300.0 Rev 2.1 1993	724821		
92626314003	**DGWC-9**	EPA 300.0 Rev 2.1 1993	724821		
92626314004	**DUP-6**	EPA 300.0 Rev 2.1 1993	724821		
92626314005	**DGWC-2**	EPA 300.0 Rev 2.1 1993	725140		
92626314006	**DGWC-23**	EPA 300.0 Rev 2.1 1993	725140		

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92625623

92625623

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/14/22 TDH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.2 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.2

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WW				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Project #

WO# : 92625623

PM: NMG Due Date: 09/28/22

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																		2	2				
2		2	1			1																		2	2				
3		2	1			1																		2	2				
4		2	1			1																		2	2				
5		2	1			1																		2	2				
6		2	1			1																		2	2				
7		2	1			1																		2	2				
8						1																		2					
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Golder	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McD AP-2, 3/4 Detection Monitoring Well Network	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	10 Day TAT	Project #:	GL166849822	Pace Profile #:	

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS															Requested Analysis Filtered (Y/N)	N	N	N	N	N	N		
1	DGWC-14	WG	G	9/13/2022	16:11		6	3		3							X	X	X	X	X	X		pH = 5.71, Fe2 = 0.0 mg/L
2	DGWC-15	WG	G	9/13/2022	16:00		6	3		3							X	X	X	X	X	X		pH = 5.82, Fe2 = 0.0 mg/L
3	DGWC-42	WG	G	9/13/2022	10:00		6	3		3							X	X	X	X	X	X		pH = 5.04, Fe2 = 0.0 mg/L
4	DGWC-47	WG	G	9/13/2022	16:05		6	3		3							X	X	X	X	X	X		pH = 4.15, Fe2 = 9.5 mg/L
5	DGWC-48	WG	G	9/13/2022	12:05		6	3		3							X	X	X	X	X	X		pH = 4.25, Fe2 = 2.5 mg/L
7	EB-3	WQ	G	9/13/2022	12:05		6	3		3							X	X	X	X	X	X		
8	FB-4	WQ	G	9/13/2022	10:00		6	3		3							X	X	X	X	X	X		
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	JW / Sample	9-14-22	8:53	[signature] 834	9/14/22	8:53	
	[signature]			[signature]	9/14/22	0853	

JUDE WAGUESPACK DATE Signed: 9-14-22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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 Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Golder	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McD AP-2, 3/4 Detection Monitoring Well Network	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	10 Day TAT	Project #:	GL166849622	Pace Profile #:	

Regulatory Agency	
State / Location	GA

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K,	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	
																Requested Analysis Filtered (Y/N)	N	N	N	N	N	N		
1	DGWC-14	WG	G	9/13/2022	16:11		6	3		3							X	X	X	X	X	X		pH = 5.71, Fe2 = 0.0 mg/L
2	DGWC-15	WG	G	9/13/2022	16:00		6	3		3							X	X	X	X	X	X		pH = 5.82, Fe2 = 0.0 mg/L
3	DGWC-42	WG	G	9/13/2022	10:00		6	3		3							X	X	X	X	X	X		pH = 5.04, Fe2 = 0.0 mg/L
4	DGWC-47	WG	G	9/13/2022	16:05		6	3		3							X	X	X	X	X	X		pH = 4.15, Fe2 = 0.5 mg/L
6	DGWC-48	WG	G	9/13/2022	12:05		6	3		3							X	X	X	X	X	X		pH = 4.25, Fe2 = 2.5 mg/L
7	EB-3	WQ	G	9/13/2022	12:05		6	3		3							X	X	X	X	X	X		
8	FB-4	WQ	G	9/13/2022	10:00		6	3		3							X	X	X	X	X	X		
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

DATE Signed:

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 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

WO# : 92625623
PM: NMG Due Date: 09/28/22
CLIENT: GA-GA Power

Client Name: GA Power Project #:

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/15/22 COS

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Thermometer: ☑ IR Gun ID: 230 ☑ Wet ☐ Blue ☐ None

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Cooler Temp: 3.8 Correction Factor: Add/Subtract (°C) 0.0 Type of Ice:

Cooler Temp Corrected (°C): 3.8

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

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

Pace Analytical	Document Name: Bottle Identification Form (BIF)	Document Issued: November 15, 2021 Page 1 of 1
	Document No.: F-CAR-CS-043-Rev.01	Issuing Authority: Pace Carolinas Quality Office

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

Project #:

WO#: 92625623

PM: NMG Due Date: 09/28/22

CLIENT: GA-GA Power

Matrix	Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
	1		2	1			1																		2	1				
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A
Required Client Information:

Company: Georgia Power - Coal Combustion Residuals
Address: 2480 Maner Road
Atlanta, GA 30339
Email: laucoker@southernco.com
Phone: (470) 620-6176 Fax
Requested Due Date: 10 Day TAT

Section B
Required Project Information:

Report To: Lauren Coker
Copy To: Golder
Purchase Order #:
Project Name: Plant McD AP-2. 3/4 Detection Monitoring Well Network
Project #: GL166849822

Section C
Invoice Information:

Attention: scsinvoices@southernco.com
Company Name:
Address:
Pace Quote:
Pace Project Manager: Nicole D'Oleo
Pace Profile #:

Regulatory Agency:
State / Location: GA

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N): N N N N N N

5623

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K,	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)		
1	DGWC-5	WG	G	9/14/2022	13:25		6	3		3							X	X	X	X	X	X		pH = 4.75, Fe2 = 0.0 mg/L	008
2	DGWC-17	WG	G	9/14/2022	14:40		6	3		3							X	X	X	X	X	X		pH = 5.06, Fe2 = 0.0 mg/L	009
3	DGWC-19	WG	G	9/14/2022	12:00		6	3		5							X	X	X	X	X	X		pH = 4.81, Fe2 = 0.0 mg/L	010
4	DUP-5	WG	G	9/14/2022	–		6	3		3							X	X	X	X	X	X			011
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	09/15/22	08:20	TM · BAH	9-15-22	8:20	
				Charles Henke	9/15/22	0945	

SAMPLER NAME AND SIGNATURE: DUANE FULTON / [signature] WSP - GOLDER
DATE Signed: 09/15/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Me... ☐ ... ☐ ... ☐

Sample Condition Upon Receipt

WO# : 92625623

PM: NMG Due Date: 09/28/22

CLIENT: GA-GA Power

Client Name: Georgia Power Project #

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/17/22 JM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.3 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.3

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO# : 92625623

PM: NMG Due Date: 09/28/22

CLIENT: GA-GA Power

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project #

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

*****Check all unpreserved Nitrates for chlorine**

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BPIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			2				
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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 Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Golder	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-2 3/4 Detection Well Network	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	10 Day TAT	Project #:	GL166849622	Pace Profile #:	

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K,	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)		
	MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS															Y/N	N	N	N	N	N	N			
1	DGWC-8	WG	G	9/15/2022	13:18		6	3		3							X	X	X	X	X	X		pH = 5.20, Fe2 = 0.0 mg/L	13
2	DGWC-10	WG	G	9/15/2022	10:25		8	3		5							X	X	X	X	X	X		pH = 4.87 Fe2 = 0.0 mg/L	14
3	DGWC-11	WG	G	9/15/2022	13:45		6	3		3							X	X	X	X	X	X		pH = 5.52 Fe2 = 0.0 mg/L	15
4	DGWC-12	WG	G	9/15/2022	15:20		6	3		3							X	X	X	X	X	X		pH = 5.75, Fe2 = >7.0 mg/L	16
6	DGWC-13	WG	G	9/15/2022	9:35		6	3		3							X	X	X	X	X	X		pH = 5.56, Fe2 = 0.0 mg/L	17
7	DGWC-20	WG	G	9/15/2022	11:45		6	3		3							X	X	X	X	X	X		pH = 4.58, Fe2 = 0.5 mg/L	18
8	DGWC-21	WG	G	9/15/2022	16:10		6	3		3							X	X	X	X	X	X		pH = 5.69, Fe2 = 0.0 mg/L	19
9	EB-5	WG	G	9/15/2022	11:45		6	3		3							X	X	X	X	X	X			20
10																									
11																									
12																									
13																									
14																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Golder	9/16/22	16:25		9/16/	16:30	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project

WO#: 92625623

PM: NMG Due Date: 09/28/22

CLIENT: GA-GA Power

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/17/22 JM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.3 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.3

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Projec

WO# : 92625623

PM: NMG Due Date: 09/28/22

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SPZT-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3 9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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 Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com	
Address: 2480 Maner Road	Copy To: Golder	Company Name:	
Atlanta, GA 30339		Address:	Regulatory Agency
Email: laucoker@southernco.com	Purchase Order #	Pace Quote:	
Phone: (470) 620-6176 Fax:	Project Name: Plant McD AP-2, 3/4 Detection Monitoring Well Network	Pace Project Manager: Nicole D'Olio	State / Location
Requested Due Date: 10 Day TAT	Project #: GL166849622	Pace Profile #:	GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App IIIB/V Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	5627
1	DGWC-22	WG	G	9/16/2022	12:01		6	3		3							X	X	X	X	X	X		pH = 5.62, Fe2 = 0.0 mg/L
2																								
3																								
4																								
5																								
6																								
7																								
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13																								
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MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

17

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Myrle Mann Golder	09/16/22	16:25		9/16/22	16:30	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power **Project**

WO#: 92625623

PM: NMG **Due Date: 09/28/22**

CLIENT: GA-GA Power

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/20/22 EJP

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.3 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.3

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: W	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Project #

WO# : 92625623

PM: NMG Due Date: 09/28/22

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1U	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1 ✓																		2				
2		2	1			1 ✓																		2				
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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 Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scainvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Golder	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McD AP-2, 3/4 Detection Monitoring Well Network	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	10 Day TAT	Project #:	GL186849622	Pace Profile #:	10841

Regulatory Agency	
State / Location	
GA	

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS							Ice		Ice						N	N	N	N	N	N	6314	
1	DGWC-4	WG	G	9/19/2022	13:26		6	3		3						X	X	X	X	X	X		pH = 5.78, Fe2 = 0.0 mg/L
2	DGWC-9	WG	G	9/19/2022	11:49		6	3		3						X	X	X	X	X	X		pH = 3.98, Fe2 = 0.0 mg/L
3	Dup-6	WG	G	9/19/2022	--		6	3		3						X	X	X	X	X	X		
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002
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004

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	JW. /Sampler	9-20-22	8:30	M. BAH.	9-2022	8:30
					9/20	9:30

JUDE WAGNESPACK DATE Signed: 9/20/22

SAMPLE CONDITIONS			
TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project

WO#: 92625623

PM: NMG Due Date: 09/28/22

CLIENT: GA-GA Power

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☑ Yes ☐ No

Date/Initials Person Examining Contents: 9/21/22 AT

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer:

☐ IR Gun ID: 230 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.1 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 4.1

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WC				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

*****Check all unpreserved Nitrates for chlorine**

Pr

WO# : 92625623

PM: NMG Due Date: 09/28/22

CLIENT: GA-GA Power

22

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1 ✓																			2				
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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Address:	2480 Maner Road	Copy To:	Golder	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McD AP-2, 3/4 Monitoring Well Network	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	10 Day TAT	Project #:	GL166849622	Pace Profile #:	

Regulatory Agency	
State / Location	GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	6480 / 6314
																Y/N	N	N	N	N	N	N	
1	DGWC-2	WG	G	9/20/2022	13:16		6	3		3						X	X	X	X	X	X	X	pH = 5.98, Fe2 = 0.0 mg/L
2	DGWC-23	WG	G	9/20/2022	10:42		8	3		5						X	X	X	X	X	X	X	pH = 6.00, Fe2 = 0.0 mg/L
3																							
4																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							

605
606

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Mark Mann Golder	09/21/22	15:05	[signature]	9/21/22	1505	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com
Address: 2480 Maner Road	Copy To: Golder	Company Name:
Atlanta, GA 30339		Address:
Email: laucoker@southernco.com	Purchase Order #:	Pace Quote:
Phone: (470) 620-6176 Fax	Project Name: Plant McD AP-2, 3/4 Detection Monitoring Well Network	Pace Project Manager: Nicole D'Oleo
Requested Due Date: 10 Day TAT	Project #: GL166849622	Pace Profile #:

Regulatory Agency
State / Location
GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N): Y/N	Analyses Test: App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K,	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	
1	DGWC-14	WG	G	9/13/2022	16:11		6	3		3						N	X	X	X	X	X	X		pH = 5.71, Fe2 = 0.0 mg/L
2	DGWC-15	WG	G	9/13/2022	16:00		6	3		3						N	X	X	X	X	X	X		pH = 5.82, Fe2 = 0.0 mg/L
3	DGWC-42	WG	G	9/13/2022	10:00		6	3		3						N	X	X	X	X	X	X		pH = 5.04, Fe2 = 0.0 mg/L
4	DGWC-47	WG	G	9/13/2022	16:05		6	3		3						N	X	X	X	X	X	X		pH = 4.15, Fe2 = 0.5 mg/L
6	DGWC-48	WG	G	9/13/2022	12:05		6	3		3						N	X	X	X	X	X	X		pH = 4.25, Fe2 = 2.5 mg/L
7	EB-3	WQ	G	9/13/2022	12:05		6	3		3						N	X	X	X	X	X	X		
8	FB-4	WQ	G	9/13/2022	10:00		6	3		3						N	X	X	X	X	X	X		
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

December 06, 2022

Andrea McClure
WSP/Golder
5170 Peachtree Road
Building 100, Suite 300
Atlanta, GA 30341

RE: Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between September 14, 2022 and September 21, 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

(Greensburg, PA) - Revision 1 - This report replaces the October 14, 2022 report. This project was revised on December 2, 2022 to add Radium-226+Radium-228 calculation.

Revision 1: Issued on 11/4/22 to include Radium QC Sheets.

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

Sincerely,

Bonnie Vang for
Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Stephen Benda, Southern Company
Noelia Gangi, Georgia Power
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Karim Minkara, Golder Associates - Atlanta

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

cc: J. Shelby Mobley, Southern Company
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Michael Smilley, Georgia Power
Yong Cheng Soo, WSP/Golder
Tina Sullivan, ERM

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

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: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92625627001	**DGWC-14**	Water	09/13/22 16:11	09/14/22 09:53
92625627002	**DGWC-15**	Water	09/13/22 16:00	09/14/22 09:53
92625627003	**DGWC-42**	Water	09/13/22 10:00	09/14/22 09:53
92625627004	**DGWC-47**	Water	09/13/22 16:05	09/14/22 09:53
92625627005	**DGWC-48**	Water	09/13/22 12:05	09/14/22 09:53
92625627006	**EB-3**	Water	09/13/22 12:05	09/14/22 09:53
92625627007	**FB-4**	Water	09/13/22 10:00	09/14/22 09:53
92625627008	**DGWC-5**	Water	09/14/22 13:25	09/15/22 08:20
92625627009	**DGWC-17**	Water	09/14/22 14:40	09/15/22 08:20
92625627010	**DGWC-19**	Water	09/14/22 12:00	09/15/22 08:20
92625627011	**DUP-5**	Water	09/14/22 00:00	09/15/22 08:20
92625627012	**DGWC-22**	Water	09/16/22 12:01	09/16/22 16:30
92625627013	**DGWC-8**	Water	09/15/22 13:18	09/16/22 16:30
92625627014	**DGWC-10**	Water	09/15/22 10:25	09/16/22 16:30
92625627015	**DGWC-11**	Water	09/15/22 13:45	09/16/22 16:30
92625627016	**DGWC-12**	Water	09/15/22 15:20	09/16/22 16:30
92625627017	**DGWC-13**	Water	09/15/22 09:35	09/16/22 16:30
92625627018	**DGWC-20**	Water	09/15/22 11:45	09/16/22 16:30
92625627019	**DGWC-21**	Water	09/15/22 16:10	09/16/22 16:30
92625627020	**EB-5**	Water	09/15/22 11:45	09/16/22 16:30
92625627021	**DGWC-4**	Water	09/19/22 13:26	09/20/22 09:50
92625627022	**DGWC-9**	Water	09/19/22 11:49	09/20/22 09:50
92625627023	**Dup-6**	Water	09/19/22 00:00	09/20/22 09:50
92626980001	**DGWC-2**	Water	09/20/22 13:16	09/21/22 15:05
92626980002	**DGWC-23**	Water	09/20/22 10:42	09/21/22 15:05

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SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92625627001	**DGWC-14**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627002	**DGWC-15**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627003	**DGWC-42**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627004	**DGWC-47**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627005	**DGWC-48**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627006	**EB-3**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627007	**FB-4**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627008	**DGWC-5**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627009	**DGWC-17**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627010	**DGWC-19**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627011	**DUP-5**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627012	**DGWC-22**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627013	**DGWC-8**	EPA 9315	RMS	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627014	**DGWC-10**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627015	**DGWC-11**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627016	**DGWC-12**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627017	**DGWC-13**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627018	**DGWC-20**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627019	**DGWC-21**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627020	**EB-5**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627021	**DGWC-4**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627022	**DGWC-9**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625627023	**Dup-6**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92626980001	**DGWC-2**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	LAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92626980002	**DGWC-23**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	LAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: DGWC-14 **Lab ID: 92625627001** Collected: 09/13/22 16:11 Received: 09/14/22 09:53 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	**0.123 ± 0.0988 (0.173) C:94% T:NA**	pCi/L	10/12/22 20:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.415 ± 0.429 (0.884) C:63% T:88%**	pCi/L	10/10/22 13:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.538 ± 0.528 (1.06)**	pCi/L	10/14/22 17:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: DGWC-15 **Lab ID: 92625627002** Collected: 09/13/22 16:00 Received: 09/14/22 09:53 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	**0.234 ± 0.131 (0.194) C:92% T:NA**	pCi/L	10/12/22 20:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.527 ± 0.477 (0.969) C:66% T:86%**	pCi/L	10/10/22 13:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.761 ± 0.608 (1.16)**	pCi/L	10/14/22 17:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: DGWC-42 **Lab ID: 92625627003** Collected: 09/13/22 10:00 Received: 09/14/22 09:53 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	**0.0766 ± 0.0817 (0.156) C:96% T:NA**	pCi/L	10/12/22 20:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.752 ± 0.454 (0.832) C:65% T:91%**	pCi/L	10/10/22 13:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.829 ± 0.536 (0.988)**	pCi/L	10/14/22 17:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: DGWC-47 **Lab ID: 92625627004** Collected: 09/13/22 16:05 Received: 09/14/22 09:53 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	**0.425 ± 0.166 (0.176) C:94% T:NA**	pCi/L	10/12/22 20:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.54 ± 0.543 (0.753) C:73% T:89%**	pCi/L	10/10/22 13:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.97 ± 0.709 (0.929)**	pCi/L	10/14/22 17:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: DGWC-48 **Lab ID: 92625627005** Collected: 09/13/22 12:05 Received: 09/14/22 09:53 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	**0.157 ± 0.104 (0.160) C:98% T:NA**	pCi/L	10/12/22 19:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.26 ± 0.559 (0.905) C:63% T:89%**	pCi/L	10/10/22 13:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.42 ± 0.663 (1.07)**	pCi/L	10/14/22 17:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: EB-3 **Lab ID: 92625627006** Collected: 09/13/22 12:05 Received: 09/14/22 09:53 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	**0.0381 ± 0.0757 (0.175) C:93% T:NA**	pCi/L	10/12/22 19:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.805 ± 0.485 (0.897) C:63% T:93%**	pCi/L	10/10/22 13:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.843 ± 0.561 (1.07)**	pCi/L	10/14/22 17:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: FB-4 **Lab ID: 92625627007** Collected: 09/13/22 10:00 Received: 09/14/22 09:53 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	**0.0686 ± 0.0781 (0.153) C:94% T:NA**	pCi/L	10/12/22 21:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.524 ± 0.541 (1.13) C:72% T:69%**	pCi/L	10/10/22 15:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.593 ± 0.619 (1.28)**	pCi/L	10/14/22 17:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: DGWC-5 **Lab ID: 92625627008** Collected: 09/14/22 13:25 Received: 09/15/22 08:20 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	**0.280 ± 0.135 (0.167) C:96% T:NA**	pCi/L	10/12/22 19:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.385 ± 0.398 (0.828) C:78% T:85%**	pCi/L	10/10/22 15:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.665 ± 0.533 (0.995)**	pCi/L	10/14/22 17:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: DGWC-17 **Lab ID: 92625627009** Collected: 09/14/22 14:40 Received: 09/15/22 08:20 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	**0.153 ± 0.0979 (0.143) C:97% T:NA**	pCi/L	10/12/22 19:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.336 ± 0.567 (1.23) C:74% T:82%**	pCi/L	10/10/22 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.489 ± 0.665 (1.37)**	pCi/L	10/14/22 17:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: DGWC-19 **Lab ID: 92625627010** Collected: 09/14/22 12:00 Received: 09/15/22 08:20 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	**0.0523 ± 0.0702 (0.146) C:98% T:NA**	pCi/L	10/12/22 19:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.622 ± 0.395 (0.733) C:75% T:79%**	pCi/L	10/10/22 15:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.674 ± 0.465 (0.879)**	pCi/L	10/14/22 17:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: DUP-5 **Lab ID: 92625627011** Collected: 09/14/22 00:00 Received: 09/15/22 08:20 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	**0.0486 ± 0.0843 (0.191) C:105% T:NA**	pCi/L	10/12/22 19:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.357 ± 0.353 (0.724) C:70% T:89%**	pCi/L	10/10/22 15:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.406 ± 0.437 (0.915)**	pCi/L	10/14/22 17:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: DGWC-22 **Lab ID: 92625627012** Collected: 09/16/22 12:01 Received: 09/16/22 16:30 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	**0.111 ± 0.0878 (0.138) C:93% T:NA**	pCi/L	10/07/22 08:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.899 ± 0.426 (0.721) C:74% T:89%**	pCi/L	10/04/22 15:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.01 ± 0.514 (0.859)**	pCi/L	10/07/22 15:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: DGWC-8 **Lab ID: 92625627013** Collected: 09/15/22 13:18 Received: 09/16/22 16:30 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	**0.0663 ± 0.0837 (0.171) C:97% T:NA**	pCi/L	10/07/22 08:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.830 ± 0.379 (0.603) C:74% T:84%**	pCi/L	10/04/22 15:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.896 ± 0.463 (0.774)**	pCi/L	10/07/22 15:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: DGWC-10 **Lab ID: 92625627014** Collected: 09/15/22 10:25 Received: 09/16/22 16:30 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	**0.233 ± 0.129 (0.172) C:92% T:NA**	pCi/L	10/07/22 08:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.720 ± 0.341 (0.544) C:76% T:89%**	pCi/L	10/04/22 15:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.953 ± 0.470 (0.716)**	pCi/L	10/07/22 15:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: DGWC-11 **Lab ID: 92625627015** Collected: 09/15/22 13:45 Received: 09/16/22 16:30 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	**0.180 ± 0.122 (0.191) C:90% T:NA**	pCi/L	10/07/22 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.938 ± 0.440 (0.733) C:74% T:83%**	pCi/L	10/04/22 15:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.12 ± 0.562 (0.924)**	pCi/L	10/07/22 15:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: DGWC-12 **Lab ID: 92625627016** Collected: 09/15/22 15:20 Received: 09/16/22 16:30 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	**0.158 ± 0.100 (0.137) C:95% T:NA**	pCi/L	10/07/22 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.362 ± 0.345 (0.703) C:75% T:87%**	pCi/L	10/04/22 15:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.520 ± 0.445 (0.840)**	pCi/L	10/07/22 15:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: DGWC-13 **Lab ID: 92625627017** Collected: 09/15/22 09:35 Received: 09/16/22 16:30 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	**0.302 ± 0.137 (0.141) C:92% T:NA**	pCi/L	10/07/22 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.708 ± 0.372 (0.639) C:76% T:84%**	pCi/L	10/04/22 15:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.01 ± 0.509 (0.780)**	pCi/L	10/07/22 15:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: DGWC-20 **Lab ID: 92625627018** Collected: 09/15/22 11:45 Received: 09/16/22 16:30 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	**0.0963 ± 0.0923 (0.171) C:96% T:NA**	pCi/L	10/07/22 09:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.28 ± 0.491 (0.728) C:70% T:88%**	pCi/L	10/04/22 15:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.38 ± 0.583 (0.899)**	pCi/L	10/07/22 15:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: DGWC-21 **Lab ID: 92625627019** Collected: 09/15/22 16:10 Received: 09/16/22 16:30 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	**0.112 ± 0.121 (0.248) C:95% T:NA**	pCi/L	10/07/22 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.659 ± 0.407 (0.760) C:76% T:84%**	pCi/L	10/04/22 15:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.771 ± 0.528 (1.01)**	pCi/L	10/07/22 15:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: EB-5 **Lab ID: 92625627020** Collected: 09/15/22 11:45 Received: 09/16/22 16:30 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	**0.0317 ± 0.0766 (0.183) C:96% T:NA**	pCi/L	10/07/22 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.683 ± 0.357 (0.615) C:76% T:92%**	pCi/L	10/04/22 15:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.715 ± 0.434 (0.798)**	pCi/L	10/07/22 15:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: DGWC-4 **Lab ID: 92625627021** Collected: 09/19/22 13:26 Received: 09/20/22 09:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.459 ± 0.170 (0.162) C:95% T:NA**	pCi/L	10/11/22 09:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.09 ± 0.422 (0.615) C:76% T:85%**	pCi/L	10/04/22 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.55 ± 0.592 (0.777)**	pCi/L	10/11/22 14:52	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: DGWC-9 **Lab ID: 92625627022** Collected: 09/19/22 11:49 Received: 09/20/22 09:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.213 ± 0.116 (0.152) C:100% T:NA**	pCi/L	10/11/22 09:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.17 ± 0.443 (0.650) C:77% T:88%**	pCi/L	10/04/22 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.38 ± 0.559 (0.802)**	pCi/L	10/11/22 14:52	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: Dup-6 **Lab ID: 92625627023** Collected: 09/19/22 00:00 Received: 09/20/22 09:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.369 ± 0.162 (0.193) C:92% T:NA**	pCi/L	10/11/22 09:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.928 ± 0.411 (0.675) C:76% T:91%**	pCi/L	10/04/22 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.30 ± 0.573 (0.868)**	pCi/L	10/11/22 14:52	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: DGWC-2 **Lab ID: 92626980001** Collected: 09/20/22 13:16 Received: 09/21/22 15:05 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	**0.367 ± 0.167 (0.156) C:91% T:NA**	pCi/L	10/12/22 20:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0828 ± 0.403 (0.926) C:76% T:88%**	pCi/L	10/05/22 19:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.450 ± 0.570 (1.08)**	pCi/L	11/30/22 15:36	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Sample: DGWC-23 **Lab ID: 92626980002** Collected: 09/20/22 10:42 Received: 09/21/22 15:05 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	**0.226 ± 0.139 (0.201) C:97% T:NA**	pCi/L	10/12/22 20:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.947 ± 0.617 (1.16) C:67% T:87%**	pCi/L	10/05/22 19:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.17 ± 0.756 (1.36)**	pCi/L	11/30/22 15:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

QC Batch: 535740
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92625627021, 92625627022, 92625627023

METHOD BLANK: 2599417
Matrix: Water
Associated Lab Samples: 92625627021, 92625627022, 92625627023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0657 ± 0.105 (0.234) C:98% T:NA	pCi/L	10/11/22 09:17	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

QC Batch: 535922 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92625627001, 92625627002, 92625627003, 92625627004, 92625627005, 92625627006, 92625627007, 92625627008, 92625627009, 92625627010, 92625627011

METHOD BLANK: 2600355 Matrix: Water
Associated Lab Samples: 92625627001, 92625627002, 92625627003, 92625627004, 92625627005, 92625627006, 92625627007, 92625627008, 92625627009, 92625627010, 92625627011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0438 ± 0.0695 (0.152) C:94% T:NA	pCi/L	10/12/22 20:23	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

QC Batch: 534681
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92625627012, 92625627013, 92625627014, 92625627015, 92625627016, 92625627017, 92625627018, 92625627019, 92625627020

METHOD BLANK: 2594503 Matrix: Water
Associated Lab Samples: 92625627012, 92625627013, 92625627014, 92625627015, 92625627016, 92625627017, 92625627018, 92625627019, 92625627020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0423 ± 0.0706 (0.157) C:95% T:NA	pCi/L	10/07/22 09:37	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

QC Batch: 535924 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92625627001, 92625627002, 92625627003, 92625627004, 92625627005, 92625627006, 92625627007, 92625627008, 92625627009, 92625627010, 92625627011

METHOD BLANK: 2600360 Matrix: Water
Associated Lab Samples: 92625627001, 92625627002, 92625627003, 92625627004, 92625627005, 92625627006, 92625627007, 92625627008, 92625627009, 92625627010, 92625627011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.590 ± 0.382 (0.710) C:71% T:92%	pCi/L	10/10/22 13:30	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

QC Batch: 534679
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92625627012, 92625627013, 92625627014, 92625627015, 92625627016, 92625627017, 92625627018, 92625627019, 92625627020

METHOD BLANK: 2594500 Matrix: Water
Associated Lab Samples: 92625627012, 92625627013, 92625627014, 92625627015, 92625627016, 92625627017, 92625627018, 92625627019, 92625627020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.343 ± 0.266 (0.703) C:75% T:90%	pCi/L	10/04/22 15:45	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

QC Batch: 535739
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92625627021, 92625627022, 92625627023

METHOD BLANK: 2599416
Matrix: Water
Associated Lab Samples: 92625627021, 92625627022, 92625627023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0371 ± 0.270 (0.626) C:74% T:89%	pCi/L	10/04/22 12:22	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

QC Batch: 537265
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92626980001, 92626980002

METHOD BLANK: 2606799
Matrix: Water
Associated Lab Samples: 92626980001, 92626980002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.226 ± 0.138 (0.196) C:96% T:NA	pCi/L	10/12/22 19:59	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

QC Batch: 537250
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92626980001, 92626980002

METHOD BLANK: 2606761
Matrix: Water
Associated Lab Samples: 92626980001, 92626980002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.545 ± 0.332 (0.615) C:82% T:99%	pCi/L	10/05/22 16:10	

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QUALIFIERS

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

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: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625627001	**DGWC-14**	EPA 9315	535922		
92625627002	**DGWC-15**	EPA 9315	535922		
92625627003	**DGWC-42**	EPA 9315	535922		
92625627004	**DGWC-47**	EPA 9315	535922		
92625627005	**DGWC-48**	EPA 9315	535922		
92625627006	**EB-3**	EPA 9315	535922		
92625627007	**FB-4**	EPA 9315	535922		
92625627008	**DGWC-5**	EPA 9315	535922		
92625627009	**DGWC-17**	EPA 9315	535922		
92625627010	**DGWC-19**	EPA 9315	535922		
92625627011	**DUP-5**	EPA 9315	535922		
92625627012	**DGWC-22**	EPA 9315	534681		
92625627013	**DGWC-8**	EPA 9315	534681		
92625627014	**DGWC-10**	EPA 9315	534681		
92625627015	**DGWC-11**	EPA 9315	534681		
92625627016	**DGWC-12**	EPA 9315	534681		
92625627017	**DGWC-13**	EPA 9315	534681		
92625627018	**DGWC-20**	EPA 9315	534681		
92625627019	**DGWC-21**	EPA 9315	534681		
92625627020	**EB-5**	EPA 9315	534681		
92625627021	**DGWC-4**	EPA 9315	535740		
92625627022	**DGWC-9**	EPA 9315	535740		
92625627023	**Dup-6**	EPA 9315	535740		
92626980001	**DGWC-2**	EPA 9315	537265		
92626980002	**DGWC-23**	EPA 9315	537265		
92625627001	**DGWC-14**	EPA 9320	535924		
92625627002	**DGWC-15**	EPA 9320	535924		
92625627003	**DGWC-42**	EPA 9320	535924		
92625627004	**DGWC-47**	EPA 9320	535924		
92625627005	**DGWC-48**	EPA 9320	535924		
92625627006	**EB-3**	EPA 9320	535924		
92625627007	**FB-4**	EPA 9320	535924		
92625627008	**DGWC-5**	EPA 9320	535924		
92625627009	**DGWC-17**	EPA 9320	535924		
92625627010	**DGWC-19**	EPA 9320	535924		
92625627011	**DUP-5**	EPA 9320	535924		
92625627012	**DGWC-22**	EPA 9320	534679		
92625627013	**DGWC-8**	EPA 9320	534679		
92625627014	**DGWC-10**	EPA 9320	534679		
92625627015	**DGWC-11**	EPA 9320	534679		
92625627016	**DGWC-12**	EPA 9320	534679		
92625627017	**DGWC-13**	EPA 9320	534679		
92625627018	**DGWC-20**	EPA 9320	534679		
92625627019	**DGWC-21**	EPA 9320	534679		
92625627020	**EB-5**	EPA 9320	534679		
92625627021	**DGWC-4**	EPA 9320	535739		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-2-3/4 Detect RADs-Revised Report
Pace Project No.: 92625627

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625627022	**DGWC-9**	EPA 9320	535739		
92625627023	**Dup-6**	EPA 9320	535739		
92626980001	**DGWC-2**	EPA 9320	537250		
92626980002	**DGWC-23**	EPA 9320	537250		
92625627001	**DGWC-14**	Total Radium Calculation	540022		
92625627002	**DGWC-15**	Total Radium Calculation	540022		
92625627003	**DGWC-42**	Total Radium Calculation	540022		
92625627004	**DGWC-47**	Total Radium Calculation	540022		
92625627005	**DGWC-48**	Total Radium Calculation	540022		
92625627006	**EB-3**	Total Radium Calculation	540022		
92625627007	**FB-4**	Total Radium Calculation	540022		
92625627008	**DGWC-5**	Total Radium Calculation	540022		
92625627009	**DGWC-17**	Total Radium Calculation	540022		
92625627010	**DGWC-19**	Total Radium Calculation	540022		
92625627011	**DUP-5**	Total Radium Calculation	540022		
92625627012	**DGWC-22**	Total Radium Calculation	538367		
92625627013	**DGWC-8**	Total Radium Calculation	538367		
92625627014	**DGWC-10**	Total Radium Calculation	538367		
92625627015	**DGWC-11**	Total Radium Calculation	538367		
92625627016	**DGWC-12**	Total Radium Calculation	538367		
92625627017	**DGWC-13**	Total Radium Calculation	538367		
92625627018	**DGWC-20**	Total Radium Calculation	538367		
92625627019	**DGWC-21**	Total Radium Calculation	538367		
92625627020	**EB-5**	Total Radium Calculation	538367		
92625627021	**DGWC-4**	Total Radium Calculation	538980		
92625627022	**DGWC-9**	Total Radium Calculation	538980		
92625627023	**Dup-6**	Total Radium Calculation	538980		
92626980001	**DGWC-2**	Total Radium Calculation	550509		
92626980002	**DGWC-23**	Total Radium Calculation	550509		

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mer... ☐ ... ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92625627

92625627

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/14/22 PAT

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.2 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.2

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WW	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

WO#: 92625627
PM: NMG Due Date: 10/05/22
CLIENT: GA-GA Power

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project #

**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			2				
2		2	1			1																			2				
3		2	1			1																			2				
4		2	1			1																			2				
5		2	1			1																			2				
6		2	1			1																			2				
7		2	1			1																			2				
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Laurea Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Golder	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McD AP-2, 3/4 Detection Monitoring Well Network	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	10 Day TAT	Project #:	GL168849622	Pace Profile #:	

Regulatory Agency: —

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS															Y/N	N	N	N	N	N	N		
1	DGWC-14	WG	G	9/13/2022	16:11		6	3		3							X	X	X	X	X	X		pH = 5.71, Fe2 = 0.0 mg/L
2	DGWC-15	WG	G	9/13/2022	16:00		6	3		3							X	X	X	X	X	X		pH = 5.82, Fe2 = 0.0 mg/L
3	DGWC-42	WG	G	9/13/2022	10:00		6	3		3							X	X	X	X	X	X		pH = 5.04, Fe2 = 0.0 mg/L
4	DGWC-47	WG	G	9/13/2022	16:05		6	3		3							X	X	X	X	X	X		pH = 4.15, Fe2 = 9.5 mg/L
5	DGWC-48	WG	G	9/13/2022	12:05		6	3		3							X	X	X	X	X	X		pH = 4.25, Fe2 = 2.5 mg/L
7	EB-3	WQ	G	9/13/2022	12:05		6	3		3							X	X	X	X	X	X		
8	FB-4	WQ	G	9/13/2022	10:00		6	3		3							X	X	X	X	X	X		
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	JW / Sample	9-14-22	8:53	834	9/14/22	8:53				
					9/14/22	0853				

JUDE WAGUESPACK — DATE Signed: 9-14-22

Pace Analytical

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 Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com	
Address: 2480 Maner Road	Copy To: Golder	Company Name:	Regulatory Agency
Atlanta, GA 30339		Address:	
Email: laucoker@southernco.com	Purchase Order #:	Pace Quote:	
Phone: (470) 620-6176 Fax	Project Name: Plant McD AP-2, 3/4 Detection Monitoring Well Network	Pace Project Manager: Nicole D'Oleo	State / Location
Requested Due Date: 10 Day TAT	Project #: GL166849622	Pace Profile #:	GA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	
																Analyses Test	N	N	N	N	N	N		
1	DGWC-14	WG	G	9/13/2022	16:11		6	3		3							X	X	X	X	X	X		pH = 5.71, Fe2 = 0.0 mg/L
2	DGWC-15	WG	G	9/13/2022	16:00		6	3		3							X	X	X	X	X	X		pH = 5.82, Fe2 = 0.0 mg/L
3	DGWC-42	WG	G	9/13/2022	10:00		6	3		3							X	X	X	X	X	X		pH = 5.04, Fe2 = 0.0 mg/L
4	DGWC-47	WG	G	9/13/2022	16:05		6	3		3							X	X	X	X	X	X		pH = 4.15, Fe2 = 0.5 mg/L
6	DGWC-48	WG	G	9/13/2022	12:05		6	3		3							X	X	X	X	X	X		pH = 4.25, Fe2 = 2.5 mg/L
7	EB-3	WG	G	9/13/2022	12:05		6	3		3							X	X	X	X	X	X		
8	FB-4	WG	G	9/13/2022	10:00		6	3		3							X	X	X	X	X	X		
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 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 ☐ [illegible] ☑ [illegible] ☐

WO# : 92625627
PM: NMG Due Date: 10/05/22
CLIENT: GA-GA Power

Sample Condition Upon Receipt

Client Name: GA Power Project

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/15/22 COA

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 230 ☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 3.8 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): 3.8

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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace Analytical	Document Name: Bottle Identification Form (BIF)	Document Issued: November 15, 2021 Page 1 of 1
	Document No.: F-CAR-CS-043-Rev.01	Issuing Authority: Pace Carolinas Quality Office

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

Project **WO# : 92625627**

PM: NMG Due Date: 10/05/22

CLIENT: GA-GA Power

Matrix	Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BPN	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
	1		2	1			1																			1				
	2		2	1			1																			2				
	3		2	1			1																			3				
	4		2	1			1																			4				
	5																													
	6																													
	7																													
	8																													
	9																													
	10																													
	11																													
	12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A
Required Client Information:

Company:	Georgia Power - Coal Combustion Residuals
Address:	2480 Maner Road
	Atlanta, GA 30339
Email:	laucoker@southernco.com
Phone:	(470) 620-6178
Fax	
Requested Due Date:	10 Day TAT

Section B
Required Project Information:

Report To:	Lauren Coker
Copy To:	Golder
Purchase Order #:	
Project Name:	Plant McD AP-2 3/4 Detection Monitoring Well Network
Project #:	GL166849622

Section C
Invoice Information:

Attention:	scsinvoices@southernco.com
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	

Regulatory Agency	
State / Location	GA

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K,	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	5623	
	Requested Analysis Filtered (Y/N)																N	N	N	N	N	N			
1	DGWC-5	WG	G	9/14/2022	13:25		6	3		3							X	X	X	X	X	X		pH = 4.75, Fe2 = 0.0 mg/L	008
2	DGWC-17	WG	G	9/14/2022	14:40		6	3		3							X	X	X	X	X	X		pH = 5.08, Fe2 = 0.0 mg/L	009
3	DGWC-19	WG	G	9/14/2022	12:00		8	3		5							X	X	X	X	X	X		pH = 4.81, Fe2 = 0.0 mg/L	010
4	DUP-5	WG	G	9/14/2022	–		6	3		3							X	X	X	X	X	X			011
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	09/15/22	08:20	[signature] BAH	9-15-22	8:20	
				Charles Henke	9/15/22	0945	

SAMPLER NAME AND SIGNATURE: DUANE FULTON / [signature] WSP - GOLDER

DATE Signed: 09/15/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #:

WO#: 92625627

PM: NMG **Due Date: 10/05/22**

CLIENT: GA-GA Power

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Pace ☐ Other: ☑ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 11/17/22 JM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.3 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.3

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

Qualtrax ID: 69614

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO# : 92625627

PM: NMG **Due Date: 10/05/22**

CLIENT: GA-GA Power

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project #

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

*****Check all unpreserved Nitrates for chlorine**

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BPIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3 9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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 Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com	
Address:	2480 Maner Road	Copy To:	Golder	Company Name:		Regulatory Agency
	Atlanta, GA 30339			Address:		
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:		
Phone:	(470) 820-6176 Fax:	Project Name:	Plant McD AP-2, 3/4 Detection Monitoring Well Network	Pace Project Manager:	Nicole D'Oleo	State / Location
Requested Due Date:	10 Day TAT	Project #:	GL168849622	Pace Profile #:		GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test: Y/N	App III/V Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	5627
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS															Requested Analysis Filtered (Y/N)	N	N	N	N	N	N		
1	DGWC-22	WG	G	9/16/2022	12:01		6	3		3						X	X	X	X	X	X			pH = 5.62, Fe2 = 0.0 mg/L.
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Myrle Mann Golder	09/16/22	16:25		9/16/22	16:30	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power **Project #**

WO#: 92625627

PM: NMG **Due Date: 10/05/22**

CLIENT: GA-GA Power

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/17/22 JM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.3 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.3

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

Qualtrax ID: 69614

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO#: 92625627

PM: NMG **Due Date: 10/05/22**

CLIENT: GA-GA Power

Projec

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

*****Check all unpreserved Nitrates for chlorine**

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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 Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Golder	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-2 3/4 Detection Well Network	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	10 Day TAT	Project #:	GL188849622	Pace Profile #:	

Regulatory Agency	
State / Location	GA

ITEM #	SAMPLE ID (One Character per box, (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: App IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K,	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water CODE: DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS															N	N	N	N	N	N		
1	DGWC-8	WG	G	9/15/2022	13:18		6	3		3						X	X	X	X	X	X		pH = 5.20, Fe2 = 0.0 mg/L
2	DGWC-10	WG	G	9/15/2022	10:25		8	3		5						X	X	X	X	X	X		pH = 4.87 Fe2 = 0.0 mg/L
3	DGWC-11	WG	G	9/15/2022	13:45		6	3		3						X	X	X	X	X	X		pH = 5.52 Fe2 = 0.0 mg/L
4	DGWC-12	WG	G	9/15/2022	15:20		6	3		3						X	X	X	X	X	X		pH = 5.75, Fe2 = >7.0 mg/L
6	DGWC-13	WG	G	9/15/2022	9:35		6	3		3						X	X	X	X	X	X		pH = 5.56, Fe2 = 0.0 mg/L
7	DGWC-20	WG	G	9/15/2022	11:45		6	3		3						X	X	X	X	X	X		pH = 4.58, Fe2 = 0.5 mg/L
8	DGWC-21	WG	G	9/15/2022	16:10		6	3		3						X	X	X	X	X	X		pH = 5.69, Fe2 = 0.0 mg/L
9	EB-5	WG	G	9/15/2022	11:45		6	3		3						X	X	X	X	X	X		
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Golder	9/16/22	16:25		9/16	16:30	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project

WO#: 92625627

PM: NMG Due Date: 10/05/22

CLIENT: GA-GA Power

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/20/22 CJH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp: 3.3 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.3

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: W	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO#: 92625627

PM: NMG Due Date: 10/05/22

CLIENT: GA-GA Power

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

*****Check all unpreserved Nitrates for chlorine**

Project

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1U	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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 Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Regulatory Agency
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com	
Address: 2480 Maner Road	Copy To: Golder	Company Name:	
Atlanta, GA 30339		Address:	
Email: lacoker@southernco.com	Purchase Order #:	Pace Quote:	
Phone: (470) 620-8176 Fax	Project Name: Plant McD AP-2, 3/4 Detection Monitoring Well Network	Pace Project Manager: Nicole D'Oleo	State / Location GA
Requested Due Date: 10 Day TAT	Project #: GL185849822	Pace Profile #: 10841	

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	
	MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS															N	N	N	N	N	N		5627
1	DGWC-4	WG	G	9/19/2022	13:26		6	3		3							X	X	X	X	X	X		pH = 6.78, Fe2 = 0.0 mg/L
2	DGWC-9	WG	G	9/19/2022	11:49		6	3		3							X	X	X	X	X	X		pH = 3.99, Fe2 = 0.0 mg/L
3	Dup-6	WG	G	9/19/2022	--		6	3		3							X	X	X	X	X	X		
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								

021
022
023

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	JW. /sampler	9-20-22	8:30	M. BAH.	9-20-22	8:30				
					9/20	9:30				

JUDE WAGNESPACK DATE Signed: 9/20/22

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #

WO#: 92625627

PM: NMG Due Date: 10/05/22

CLIENT: GA-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☑ Yes ☐ No

Date/Initials Person Examining Contents: 9/21/22 AT

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer:

☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.1 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 4.1

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: W Cr	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO#: 92625627

PM: NMG Due Date: 10/05/22

CLIENT: GA-GA Power

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

*****Check all unpreserved Nitrates for chlorine**

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1 ✓																			2				
2		2	1			1 ✓																			4				
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

Page: 1 Of 1

Section A
Required Client Information:

Company: Georgia Power - Coal Combustion Residuals
Address: 2480 Maner Road
Atlanta, GA 30339
Email: laucoker@southernco.com
Phone: (470) 620-6176 Fax:

Requested Due Date: 10 Day TAT

Section B
Required Project Information:

Report To: Lauren Coker
Copy To: Golder
Purchase Order #:
Project Name: Plant McD AP-2, 3/4 Monitoring Well Network
Project #: GL166849622

Section C
Invoice Information:

Attention: scsinvoices@southernco.com
Company Name:
Address:
Pace Quote:
Pace Project Manager: Nicole D'Oleo
Pace Profile #:

Regulatory Agency:
State / Location: GA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N): N N N N N N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	6980 6314
1	DGWC-2	WG	G	9/20/2022	13:16		6	3		3							X	X	X	X	X	X		pH = 5.98, Fe2 = 0.0 mg/L
2	DGWC-23	WG	G	9/20/2022	10:42		8	3		5							X	X	X	X	X	X		pH = 6.00, Fe2 = 0.0 mg/L
3																								
4																								
5																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								

005
006

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[illegible] Golder	09/21/22	15:05	[illegible]	9/21/22	1505	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com
Address: 2480 Maner Road	Copy To: Golder	Company Name:
Atlanta, GA 30339		Address:
Email: laucoker@southernco.com	Purchase Order #:	Pace Quote:
Phone: (470) 620-6176 Fax	Project Name: Plant McD AP-2, 3/4 Detection Monitoring Well Network	Pace Project Manager: Nicole D'Oleo
Requested Due Date: 10 Day TAT	Project #: GL166849622	Pace Profile #:

Regulatory Agency	State / Location
	GA

SAMPLE ID

One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K,	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	
	Requested Analysis Filtered (Y/N)															Y/N	N	N	N	N	N	N		
1	DGWC-14	WG	G	9/13/2022	16:11		6	3		3							X	X	X	X	X	X		pH = 5.71, Fe2 = 0.0 mg/L
2	DGWC-15	WG	G	9/13/2022	16:00		6	3		3							X	X	X	X	X	X		pH = 5.82, Fe2 = 0.0 mg/L
3	DGWC-42	WG	G	9/13/2022	10:00		6	3		3							X	X	X	X	X	X		pH = 5.04, Fe2 = 0.0 mg/L
4	DGWC-47	WG	G	9/13/2022	16:05		6	3		3							X	X	X	X	X	X		pH = 4.15, Fe2 = 0.5 mg/L
6	DGWC-48	WG	G	9/13/2022	12:05		6	3		3							X	X	X	X	X	X		pH = 4.25, Fe2 = 2.5 mg/L
7	EB-3	WQ	G	9/13/2022	12:05		6	3		3							X	X	X	X	X	X		
8	FB-4	WQ	G	9/13/2022	10:00		6	3		3							X	X	X	X	X	X		
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	RMS
Date:	9/26/2022
Worklist:	68985
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2594503
MB concentration:	0.042
M/B Counting Uncertainty:	0.070
MB MDC:	0.157
MB Numerical Performance Indicator:	1.18
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS68985	LCSD68985
Count Date:	10/7/2022	10/7/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.505	0.501
Target Conc. (pCi/L, g, F):	4.756	4.792
Uncertainty (Calculated):	0.057	0.058
Result (pCi/L, g, F):	5.097	4.847
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.493	0.496
Numerical Performance Indicator:	1.35	0.22
Percent Recovery:	107.17%	101.15%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS68985	2594503
Duplicate Sample I.D.	LCSD68985	92625631020
Sample Result (pCi/L, g, F):	5.097	0.042
Sample Result Counting Uncertainty (pCi/L, g, F):	0.493	0.070
Sample Duplicate Result (pCi/L, g, F):	4.847	0.033
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.496	0.065
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.702	0.192
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.78%	25.02%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

***~~Batch must be re-prepped due to unacceptable precision.~~ N/A

VAM 10/7/22

VAM 10/7/22

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	RMS
Date:	9/29/2022
Worklist:	69056
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2599417
MB concentration:	0.066
M/B Counting Uncertainty:	0.104
MB MDC:	0.234
MB Numerical Performance Indicator:	1.23
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS69056	LCSD69056
Count Date:	10/11/2022	10/11/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.503
Target Conc. (pCi/L, g, F):	4.772	4.776
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.561	5.048
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.462	0.491
Numerical Performance Indicator:	-0.89	1.08
Percent Recovery:	95.59%	105.68%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS69056	
Duplicate Sample I.D.	LCSD69056	
Sample Result (pCi/L, g, F):	4.561	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.462	
Sample Duplicate Result (pCi/L, g, F):	5.048	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.491	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.414	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	10.03%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAM 10/11/22

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	RMS
Date:	9/30/2022
Worklist:	69072
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2600355
MB concentration:	0.044
M/B Counting Uncertainty:	0.069
MB MDC:	0.152
MB Numerical Performance Indicator:	1.24
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS69072	LCSD69072
Count Date:	10/12/2022	10/12/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.505	0.511
Target Conc. (pCi/L, g, F):	4.758	4.704
Uncertainty (Calculated):	0.057	0.056
Result (pCi/L, g, F):	5.119	4.712
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.487	0.471
Numerical Performance Indicator:	1.44	0.03
Percent Recovery:	107.59%	100.17%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS69072	2600355
Duplicate Sample I.D.	LCSD69072	92624384013
Sample Result (pCi/L, g, F):	5.119	0.044
Sample Result Counting Uncertainty (pCi/L, g, F):	0.487	0.069
Sample Duplicate Result (pCi/L, g, F):	4.712	0.020
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.471	0.055
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	1.179	0.520
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.14%	73.02%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~***Batch must be re-prepped due to unacceptable precision.~~ N/A

LAM 10/13/22

LAM 10/13/22

Quality Control Sample Performance Assessment

Pace Analytical
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Test:	Ra-228
Analyst:	VAL
Date:	9/26/2022
Worklist:	68983
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2594500
MB concentration:	-0.343
M/B 2 Sigma CSU:	0.266
MB MDC:	0.703
MB Numerical Performance Indicator:	-2.52
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS68983	LCSD68983
Count Date:	10/4/2022	10/4/2022
Spike I.D.:	22-029	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.873	19.873
Volume Used (mL):	0.20	0.20
Aliquot Volume (L, g, F):	0.802	0.810
Target Conc. (pCi/L, g, F):	4.956	4.909
Uncertainty (Calculated):	0.357	0.353
Result (pCi/L, g, F):	3.835	3.327
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.896	0.797
Numerical Performance Indicator:	-2.28	-3.56
Percent Recovery:	77.37%	67.77%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.:	LCS68983	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD68983	
Sample Result (pCi/L, g, F):	3.835	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.896	
Sample Duplicate Result (pCi/L, g, F):	3.327	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.797	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.830	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	13.22%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Quality Control Sample Performance Assessment

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Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	9/30/2022
Worklist:	69073
Matrix:	WT

Method Blank Assessment	
MB Sample ID	2600360
MB concentration:	0.590
M/B 2 Sigma CSU:	0.382
MB MDC:	0.710
MB Numerical Performance Indicator:	3.02
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS69073	LCSD69073
Count Date:	10/10/2022	10/10/2022
Spike I.D.:	22-029	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.834	19.834
Volume Used (mL):	0.20	0.20
Aliquot Volume (L, g, F):	0.808	0.810
Target Conc. (pCi/L, g, F):	4.907	4.895
Uncertainty (Calculated):	0.353	0.352
Result (pCi/L, g, F):	6.528	6.766
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.382	1.419
Numerical Performance Indicator:	2.23	2.51
Percent Recovery:	133.05%	138.22%
Status vs Numerical Indicator:	N/A	Warning
Status vs Recovery:	Pass	Fail High**
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS69073	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD69073	
Sample Result (pCi/L, g, F):	6.528	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.382	
Sample Duplicate Result (pCi/L, g, F):	6.766	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.419	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.235	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.81%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be reprepped.~~ MB activity < MDC, Pass QH 10/11/22

~~**If all sample results are below MDC, the batch is acceptable, otherwise this batch must be reprepped due to LCSD failure.~~

NI < 3 acceptable for LCS/LCSD
QH 10/11/22

10/11/22

JW 10.11.22

Quality Control Sample Performance Assessment

Pace Analytical
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Test:	Ra-228
Analyst:	VAL
Date:	9/28/2022
Worklist:	69055
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2599416
MB concentration:	0.037
M/B 2 Sigma CSU:	0.270
MB MDC:	0.626
MB Numerical Performance Indicator:	0.27
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS69055	LCSD69055
Count Date:	10/4/2022	10/4/2022
Spike I.D.:	22-029	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.874	19.874
Volume Used (mL):	0.20	0.20
Aliquot Volume (L, g, F):	0.806	0.805
Target Conc. (pCi/L, g, F):	4.933	4.940
Uncertainty (Calculated):	0.355	0.356
Result (pCi/L, g, F):	4.189	4.442
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.917	0.977
Numerical Performance Indicator:	-1.48	-0.94
Percent Recovery:	84.92%	89.91%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS69055	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD69055	
Sample Result (pCi/L, g, F):	4.189	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.917	
Sample Duplicate Result (pCi/L, g, F):	4.442	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.977	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.370	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.70%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	RMS
Date:	10/7/2022
Worklist:	69179
Matrix:	DW

Method Blank Assessment	
MB Sample ID	2606799
MB concentration:	0.226
M/B Counting Uncertainty:	0.134
MB MDC:	0.196
MB Numerical Performance Indicator:	3.29
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS69179	**LCSD69179**
Count Date:	10/12/2022	10/12/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.503
Target Conc. (pCi/L, g, F):	4.771	4.773
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.303	5.044
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.532	0.573
Numerical Performance Indicator:	-1.72	0.92
Percent Recovery:	90.18%	105.67%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS69179	
Duplicate Sample I.D.	LCSD69179	
Sample Result (pCi/L, g, F):	4.303	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.532	
Sample Duplicate Result (pCi/L, g, F):	5.044	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.573	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.857	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	15.81%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*The method blank result is below the reporting limit for this analysis and is acceptable.

Quality Control Sample Performance Assessment

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Test:	Ra-226
Analyst:	SLC
Date:	9/27/2022
Batch ID:	69026
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2597924
MB concentration:	0.126
M/B Counting Uncertainty:	0.246
MB MDC:	0.463
MB Numerical Performance Indicator:	1.00
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS69026	LCSD69026
Count Date:	10/3/2022	
Spike I.D.:	21-040	
Spike Concentration (pCi/mL):	32.426	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.650	
Target Conc. (pCi/L, g, F):	4.985	
Uncertainty (Calculated):	0.234	
Result (pCi/L, g, F):	6.670	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.234	
Numerical Performance Indicator:	2.63	
Percent Recovery:	133.79%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	73%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	9/20/2022	
Sample I.D.	30524713002	
Sample MS I.D.	30524713002MS	
Sample MSD I.D.		
Spike I.D.:	21-040	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	32.426	
Spike Volume Used in MS (mL):	0.10	
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):	0.505	
MS Target Conc.(pCi/L, g, F):	6.423	
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):	0.302	
MSD Spike Uncertainty (calculated):		
Sample Result:	0.070	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.309	
Sample Matrix Spike Result:	7.204	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.475	
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:	0.906	
MSD Numerical Performance Indicator:		
MS Percent Recovery:	111.07%	
MSD Percent Recovery:		
MS Status vs Numerical Indicator:	N/A	
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:	136%	
MS/MSD Lower % Recovery Limits:	71%	

Duplicate Sample Assessment		
Sample I.D.:	30524712001	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	30524712001DUP	
Sample Result (pCi/L, g, F):	0.069	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.234	
Sample Duplicate Result (pCi/L, g, F):	0.065	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.221	
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	0.024	30524712001
Duplicate RPD:	5.77%	30524712001DUP
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

GDH 10/6/22
JPZ 10/6/22

Quality Control Sample Performance Assessment

Pace Analytical
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Test:	Ra-228
Analyst:	VAL
Date:	9/28/2022
Worklist:	69027
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2597930
MB concentration:	0.545
M/B 2 Sigma CSU:	0.332
MB MDC:	0.615
MB Numerical Performance Indicator:	3.22
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS69027	LCSD69027
Count Date:	10/5/2022	
Spike I.D.:	22-029	
Decay Corrected Spike Concentration (pCi/mL):	19.866	
Volume Used (mL):	0.20	
Aliquot Volume (L, g, F):	0.813	
Target Conc. (pCi/L, g, F):	4.889	
Uncertainty (Calculated):	0.352	
Result (pCi/L, g, F):	4.576	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.007	
Numerical Performance Indicator:	-0.58	
Percent Recovery:	93.59%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	9/13/2022	
Sample I.D.	30524715001	
Sample MS I.D.	30524715001MS	
Sample MSD I.D.		
Spike I.D.:	22-029	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	20.011	
Spike Volume Used in MS (mL):	0.40	
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):	0.810	
MS Target Conc.(pCi/L, g, F):	9.877	
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):	0.711	
MSD Spike Uncertainty (calculated):		
Sample Result:	0.208	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.308	
Sample Matrix Spike Result:	10.323	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.044	
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:	0.214	
MSD Numerical Performance Indicator:		
MS Percent Recovery:	102.42%	
MSD Percent Recovery:		
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Duplicate Sample Assessment		
Sample I.D.:	30524570001	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	30524570001DUP	
Sample Result (pCi/L, g, F):	0.272	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.369	
Sample Duplicate Result (pCi/L, g, F):	0.869	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.407	
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	-2.131	30524570001
Duplicate RPD:	104.65%	30524570001DUP
Duplicate Status vs Numerical Indicator:	Warning	
Duplicate Status vs RPD:	Fail***	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*~~If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.~~ MB activity < MDC, Pass

10/6/22

10/6/22

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

November 30, 2022

Andrea McClure
WSP/Golder
5170 Peachtree Road
Building 100, Suite 300
Atlanta, GA 30341

RE: Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between September 14, 2022 and September 21, 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

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

Sincerely,

Bonnie Vang for
Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Stephen Benda, Southern Company
Noelia Gangi, Georgia Power
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Karim Minkara, Golder Associates - Atlanta
J. Shelby Mobley, Southern Company
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Michael Smilley, Georgia Power
Yong Cheng Soo, WSP/Golder
Tina Sullivan, ERM

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Pace Analytical Services Charlotte
South Carolina Laboratory ID: 99006
9800 Kincey 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

Pace Analytical Services, LLC
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SAMPLE SUMMARY

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92625178003	**B-83**	Water	09/13/22 11:43	09/14/22 09:53
92625178004	**B-97**	Water	09/13/22 12:26	09/14/22 09:53
92625178005	**B-98**	Water	09/13/22 11:58	09/14/22 09:53
92625178006	**B-104D**	Water	09/13/22 13:55	09/14/22 09:53
92625178007	**DUP-4**	Water	09/13/22 00:00	09/14/22 09:53
92625178008	**B-77**	Water	09/13/22 14:21	09/14/22 09:53
92625178009	**B-63**	Water	09/14/22 12:56	09/15/22 08:20
92625178010	**B-107D**	Water	09/14/22 10:15	09/15/22 08:20
92625178011	**B-111D**	Water	09/14/22 15:11	09/15/22 08:20
92625178012	**B-115D**	Water	09/14/22 15:26	09/15/22 08:20
92625178013	**FB-5**	Water	09/14/22 12:20	09/15/22 08:20
92625623012	**B-102D**	Water	09/15/22 12:00	09/16/22 16:30
92625623013	**B-108D**	Water	09/15/22 14:05	09/16/22 16:30
92625623014	**FB-6**	Water	09/15/22 14:05	09/16/22 16:30
92625178017	**B-56**	Water	09/16/22 10:13	09/16/22 16:30
92625178018	**B-66**	Water	09/16/22 10:10	09/16/22 16:30
92625178019	**B-88**	Water	09/16/22 10:44	09/16/22 16:30
92625178020	**B-101D**	Water	09/16/22 11:30	09/16/22 16:30
92625178021	**B-106D**	Water	09/16/22 09:16	09/16/22 16:30
92625178022	**B-82**	Water	09/16/22 12:15	09/16/22 16:30
92625178023	**B-120D**	Water	09/19/22 14:55	09/20/22 09:50
92625178024	**EB-6**	Water	09/19/22 15:30	09/20/22 09:50
92625178025	**B-109D**	Water	09/20/22 14:33	09/21/22 15:05

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SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92625178003	**B-83**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178004	**B-97**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178005	**B-98**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178006	**B-104D**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178007	**DUP-4**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178008	**B-77**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178009	**B-63**	EPA 6010D	DRB	5

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SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178010	**B-107D**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178011	**B-111D**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178012	**B-115D**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178013	**FB-5**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623012	**B-102D**	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623013	**B-108D**	EPA 6010D	KH	5
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625623014	**FB-6**	EPA 6010D	KH	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178017	**B-56**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178018	**B-66**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178019	**B-88**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178020	**B-101D**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178021	**B-106D**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1

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SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178022	**B-82**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178023	**B-120D**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	MAB2	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178024	**EB-6**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	MAB2	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178025	**B-109D**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	MAB2	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

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-83 **Lab ID: 92625178003** Collected: 09/13/22 11:43 Received: 09/14/22 09:53 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		09/19/22 07:25		
pH	**5.60**	Std. Units			1		09/19/22 07:25		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 15:26	7439-89-6	
Potassium	**2.6**	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 15:26	7440-09-7	
Sodium	**9.6**	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 15:26	7440-23-5	
Calcium	**36.2**	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 15:26	7440-70-2	
Magnesium	**10.1**	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 15:26	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 19:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 19:03	7440-38-2	
Barium	**0.025**	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 19:03	7440-39-3	
Beryllium	**0.00044J**	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 19:03	7440-41-7	
Boron	**0.33**	mg/L	0.040	0.0086	1	09/26/22 13:33	09/28/22 15:05	7440-42-8	
Cadmium	**0.00031J**	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 19:03	7440-43-9	
Chromium	**0.0022J**	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 19:03	7440-47-3	
Cobalt	**0.012**	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 19:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 19:03	7439-92-1	
Lithium	**0.0027J**	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 19:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 19:03	7439-98-7	
Selenium	**0.024**	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 19:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 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	10/04/22 13:15	10/04/22 16:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**210**	mg/L	25.0	10.0	1		09/16/22 14:35		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**39.2**	mg/L	5.0	5.0	1		09/20/22 13:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 13:23		
Alkalinity, Total as CaCO3	**39.2**	mg/L	5.0	5.0	1		09/20/22 13:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.5**	mg/L	1.0	0.60	1		09/17/22 19:57	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-83 **Lab ID: 92625178003** Collected: 09/13/22 11:43 Received: 09/14/22 09:53 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								
Fluoride	**0.081J**	mg/L	0.10	0.050	1		09/17/22 19:57	16984-48-8	
Sulfate	**109**	mg/L	2.0	1.0	2		09/20/22 18:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-97 **Lab ID: 92625178004** Collected: 09/13/22 12:26 Received: 09/14/22 09:53 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		09/19/22 07:26		
pH	**5.54**	Std. Units			1		09/19/22 07:26		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 15:30	7439-89-6	
Potassium	**5.6**	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 15:30	7440-09-7	
Sodium	**40.1**	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 15:30	7440-23-5	
Calcium	**201**	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 15:30	7440-70-2	
Magnesium	**34.3**	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 15:30	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 19:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 19:09	7440-38-2	
Barium	**0.020**	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 19:09	7440-39-3	
Beryllium	**0.0017**	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 19:09	7440-41-7	
Boron	**3.7**	mg/L	0.40	0.086	10	09/26/22 13:33	09/28/22 15:11	7440-42-8	
Cadmium	**0.00055**	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 19:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 19:09	7440-47-3	
Cobalt	**0.0029J**	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 19:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 19:09	7439-92-1	
Lithium	**0.0052J**	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 19:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 19:09	7439-98-7	
Selenium	**0.0032J**	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 19:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 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	10/04/22 13:15	10/04/22 16:46	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1050**	mg/L	50.0	20.0	1		09/16/22 14:35		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**54.0**	mg/L	5.0	5.0	1		09/20/22 13:30		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 13:30		
Alkalinity, Total as CaCO3	**54.0**	mg/L	5.0	5.0	1		09/20/22 13:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**19.5**	mg/L	1.0	0.60	1		09/17/22 20:12	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-97 **Lab ID: 92625178004** Collected: 09/13/22 12:26 Received: 09/14/22 09:53 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								
Fluoride	**0.14**	mg/L	0.10	0.050	1		09/17/22 20:12	16984-48-8	
Sulfate	**677**	mg/L	12.0	6.0	12		09/20/22 18:17	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-98 **Lab ID: 92625178005** Collected: 09/13/22 11:58 Received: 09/14/22 09:53 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		09/19/22 07:26		
pH	**6.18**	Std. Units			1		09/19/22 07:26		
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	09/27/22 11:19	09/27/22 15:35	7439-89-6	
Potassium	**8.2**	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 15:35	7440-09-7	
Sodium	**8.9**	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 15:35	7440-23-5	
Calcium	**63.3**	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 15:35	7440-70-2	
Magnesium	**4.7**	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 15:35	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 19:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 19:15	7440-38-2	
Barium	**0.092**	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 19:15	7440-39-3	
Beryllium	**0.000062J**	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 19:15	7440-41-7	
Boron	**0.62**	mg/L	0.20	0.043	5	09/26/22 13:33	09/28/22 15:17	7440-42-8	
Cadmium	**0.00031J**	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 19:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 19:15	7440-47-3	
Cobalt	**0.00063J**	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 19:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 19:15	7439-92-1	
Lithium	**0.0011J**	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 19:15	7439-93-2	
Molybdenum	**0.00084J**	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 19:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 19:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 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	10/04/22 13:15	10/04/22 16:48	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**267**	mg/L	25.0	10.0	1		09/16/22 14:35		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**102**	mg/L	5.0	5.0	1		09/20/22 13:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 13:52		
Alkalinity, Total as CaCO3	**102**	mg/L	5.0	5.0	1		09/20/22 13:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.9**	mg/L	1.0	0.60	1		09/17/22 20:27	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-98 **Lab ID: 92625178005** Collected: 09/13/22 11:58 Received: 09/14/22 09:53 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								
Fluoride	**0.18**	mg/L	0.10	0.050	1		09/17/22 20:27	16984-48-8	
Sulfate	**92.1**	mg/L	1.0	0.50	1		09/17/22 20:27	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-104D **Lab ID: 92625178006** Collected: 09/13/22 13:55 Received: 09/14/22 09:53 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		09/19/22 07:26		
pH	**6.49**	Std. Units			1		09/19/22 07:26		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**10.3**	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 15:40	7439-89-6	
Potassium	**8.2**	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 15:40	7440-09-7	
Sodium	**19.6**	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 15:40	7440-23-5	
Calcium	**153**	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 15:40	7440-70-2	
Magnesium	**27.5**	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 15:40	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 19:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 19:33	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 19:33	7440-39-3	
Beryllium	**0.0014**	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 19:33	7440-41-7	
Boron	**0.26**	mg/L	0.040	0.0086	1	09/26/22 13:33	09/28/22 15:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 19:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 19:33	7440-47-3	
Cobalt	**0.14**	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 19:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 19:33	7439-92-1	
Lithium	**0.040**	mg/L	0.030	0.00073	1	09/26/22 13:33	09/28/22 15:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 19:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 19:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 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	10/04/22 13:15	10/04/22 16:51	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**832**	mg/L	50.0	20.0	1		09/16/22 14:35		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**69.1**	mg/L	5.0	5.0	1		09/20/22 14:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 14:01		
Alkalinity, Total as CaCO3	**69.1**	mg/L	5.0	5.0	1		09/20/22 14:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.0**	mg/L	1.0	0.60	1		09/17/22 21:12	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-104D **Lab ID: 92625178006** Collected: 09/13/22 13:55 Received: 09/14/22 09:53 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								
Fluoride	**0.35**	mg/L	0.10	0.050	1		09/17/22 21:12	16984-48-8	
Sulfate	**505**	mg/L	10.0	5.0	10		09/20/22 19:01	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: DUP-4 **Lab ID: 92625178007** Collected: 09/13/22 00:00 Received: 09/14/22 09:53 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 15:45	7439-89-6	
Potassium	**2.3**	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 15:45	7440-09-7	
Sodium	**8.9**	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 15:45	7440-23-5	
Calcium	**33.5**	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 15:45	7440-70-2	
Magnesium	**9.6**	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 15:45	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	09/26/22 13:33	09/27/22 19:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 19:39	7440-38-2	
Barium	**0.024**	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 19:39	7440-39-3	
Beryllium	**0.00038J**	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 19:39	7440-41-7	
Boron	**0.32**	mg/L	0.040	0.0086	1	09/26/22 13:33	09/28/22 15:29	7440-42-8	
Cadmium	**0.00028J**	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 19:39	7440-43-9	
Chromium	**0.0021J**	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 19:39	7440-47-3	
Cobalt	**0.012**	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 19:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 19:39	7439-92-1	
Lithium	**0.0025J**	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 19:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 19:39	7439-98-7	
Selenium	**0.023**	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 19:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 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	10/04/22 13:15	10/04/22 16:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**214**	mg/L	25.0	10.0	1		09/16/22 14:35		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**37.8**	mg/L	5.0	5.0	1		09/20/22 14:18		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 14:18		
Alkalinity, Total as CaCO3	**37.8**	mg/L	5.0	5.0	1		09/20/22 14:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.5**	mg/L	1.0	0.60	1		09/17/22 21:27	16887-00-6	
Fluoride	**0.083J**	mg/L	0.10	0.050	1		09/17/22 21:27	16984-48-8	
Sulfate	**108**	mg/L	2.0	1.0	2		09/20/22 19:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-77 **Lab ID: 92625178008** Collected: 09/13/22 14:21 Received: 09/14/22 09:53 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		09/19/22 07:27		
pH	**6.34**	Std. Units			1		09/19/22 07:27		
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	09/27/22 11:19	09/27/22 15:49	7439-89-6	
Potassium	**1.1**	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 15:49	7440-09-7	
Sodium	**7.7**	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 15:49	7440-23-5	
Calcium	**15.7**	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 15:49	7440-70-2	
Magnesium	**4.6**	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 15:49	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	09/27/22 11:00	09/28/22 20:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 11:00	09/28/22 20:26	7440-38-2	
Barium	**0.089**	mg/L	0.0050	0.00067	1	09/27/22 11:00	09/28/22 20:26	7440-39-3	
Beryllium	**0.00013J**	mg/L	0.00050	0.000054	1	09/27/22 11:00	09/28/22 20:26	7440-41-7	
Boron	**0.33**	mg/L	0.040	0.0086	1	09/27/22 11:00	09/28/22 20:26	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 11:00	09/28/22 20:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 11:00	09/28/22 20:26	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/27/22 11:00	09/28/22 20:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 11:00	09/28/22 20:26	7439-92-1	
Lithium	**0.0020J**	mg/L	0.030	0.00073	1	09/27/22 11:00	09/28/22 20:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 11:00	09/28/22 20:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 11:00	09/28/22 20:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 11:00	09/28/22 20:26	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 17:01	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**113**	mg/L	25.0	10.0	1		09/16/22 14:35		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**86.2**	mg/L	5.0	5.0	1		09/20/22 14:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 14:25		
Alkalinity, Total as CaCO3	**86.2**	mg/L	5.0	5.0	1		09/20/22 14:25		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.4**	mg/L	1.0	0.60	1		09/17/22 21:42	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-77 **Lab ID: 92625178008** Collected: 09/13/22 14:21 Received: 09/14/22 09:53 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								
Fluoride	**0.080J**	mg/L	0.10	0.050	1		09/17/22 21:42	16984-48-8	
Sulfate	**10.0**	mg/L	1.0	0.50	1		09/17/22 21:42	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-63 **Lab ID: 92625178009** Collected: 09/14/22 12:56 Received: 09/15/22 08:20 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		09/15/22 17:24		
pH	**5.31**	Std. Units			1		09/15/22 17:24		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**1.6**	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 15:54	7439-89-6	
Potassium	**2.7**	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 15:54	7440-09-7	
Sodium	**13.0**	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 15:54	7440-23-5	
Calcium	**26.3**	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 15:54	7440-70-2	
Magnesium	**9.3**	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 15:54	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	09/27/22 11:00	09/28/22 20:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 11:00	09/28/22 20:50	7440-38-2	
Barium	**0.032**	mg/L	0.0050	0.00067	1	09/27/22 11:00	09/28/22 20:50	7440-39-3	
Beryllium	**0.00053**	mg/L	0.00050	0.000054	1	09/27/22 11:00	09/28/22 20:50	7440-41-7	
Boron	**0.38**	mg/L	0.040	0.0086	1	09/27/22 11:00	09/28/22 20:50	7440-42-8	
Cadmium	**0.00018J**	mg/L	0.00050	0.00011	1	09/27/22 11:00	09/28/22 20:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 11:00	09/28/22 20:50	7440-47-3	
Cobalt	**0.050**	mg/L	0.0050	0.00039	1	09/27/22 11:00	09/28/22 20:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 11:00	09/28/22 20:50	7439-92-1	
Lithium	**0.0072J**	mg/L	0.030	0.00073	1	09/27/22 11:00	09/28/22 20:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 11:00	09/28/22 20:50	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 11:00	09/28/22 20:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 11:00	09/28/22 20:50	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	10/04/22 13:15	10/04/22 17:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**206**	mg/L	25.0	10.0	1		09/19/22 09:17		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**33.2**	mg/L	5.0	5.0	1		09/20/22 15:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 15:43		
Alkalinity, Total as CaCO3	**33.2**	mg/L	5.0	5.0	1		09/20/22 15:43		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.5**	mg/L	1.0	0.60	1		09/19/22 03:48	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-63 **Lab ID: 92625178009** Collected: 09/14/22 12:56 Received: 09/15/22 08:20 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								
Fluoride	**0.14**	mg/L	0.10	0.050	1		09/19/22 03:48	16984-48-8	
Sulfate	**93.3**	mg/L	1.0	0.50	1		09/19/22 03:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-107D **Lab ID: 92625178010** Collected: 09/14/22 10:15 Received: 09/15/22 08:20 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		09/15/22 17:25		
pH	**5.87**	Std. Units			1		09/15/22 17:25		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.36**	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 15:59	7439-89-6	
Potassium	**5.9**	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 15:59	7440-09-7	
Sodium	**19.2**	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 15:59	7440-23-5	
Calcium	**82.6**	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 15:59	7440-70-2	
Magnesium	**30.4**	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 15:59	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	09/27/22 11:00	09/28/22 20:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 11:00	09/28/22 20:56	7440-38-2	
Barium	**0.057**	mg/L	0.0050	0.00067	1	09/27/22 11:00	09/28/22 20:56	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/27/22 11:00	09/28/22 20:56	7440-41-7	
Boron	**11.2**	mg/L	2.0	0.43	50	09/27/22 11:00	09/29/22 14:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 11:00	09/28/22 20:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 11:00	09/28/22 20:56	7440-47-3	
Cobalt	**0.00061J**	mg/L	0.0050	0.00039	1	09/27/22 11:00	09/28/22 20:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 11:00	09/28/22 20:56	7439-92-1	
Lithium	**0.015J**	mg/L	0.030	0.00073	1	09/27/22 11:00	09/28/22 20:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 11:00	09/28/22 20:56	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 11:00	09/28/22 20:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 11:00	09/28/22 20:56	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	10/04/22 13:15	10/04/22 17:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**582**	mg/L	25.0	10.0	1		09/19/22 09:17		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**28.0**	mg/L	5.0	5.0	1		09/20/22 15:51		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 15:51		
Alkalinity, Total as CaCO3	**28.0**	mg/L	5.0	5.0	1		09/20/22 15:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**12.9**	mg/L	1.0	0.60	1		09/19/22 04:03	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-107D **Lab ID: 92625178010** Collected: 09/14/22 10:15 Received: 09/15/22 08:20 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								
Fluoride	**0.053J**	mg/L	0.10	0.050	1		09/19/22 04:03	16984-48-8	
Sulfate	**327**	mg/L	7.0	3.5	7		09/19/22 19:18	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-111D **Lab ID: 92625178011** Collected: 09/14/22 15:11 Received: 09/15/22 08:20 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		09/15/22 17:25		
pH	**7.09**	Std. Units			1		09/15/22 17:25		
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	09/27/22 11:19	09/27/22 16:04	7439-89-6	
Potassium	**6.2**	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 16:04	7440-09-7	
Sodium	**38.8**	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 16:04	7440-23-5	
Calcium	**90.7**	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 16:04	7440-70-2	
Magnesium	**8.8**	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 16:04	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	09/27/22 11:00	09/28/22 21:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 11:00	09/28/22 21:02	7440-38-2	
Barium	**0.028**	mg/L	0.0050	0.00067	1	09/27/22 11:00	09/28/22 21:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/27/22 11:00	09/28/22 21:02	7440-41-7	
Boron	**0.24**	mg/L	0.040	0.0086	1	09/27/22 11:00	09/28/22 21:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 11:00	09/28/22 21:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 11:00	09/28/22 21:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/27/22 11:00	09/28/22 21:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 11:00	09/28/22 21:02	7439-92-1	
Lithium	**0.020J**	mg/L	0.030	0.00073	1	09/27/22 11:00	09/28/22 21:02	7439-93-2	
Molybdenum	**0.0069J**	mg/L	0.010	0.00074	1	09/27/22 11:00	09/28/22 21:02	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 11:00	09/28/22 21:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 11:00	09/28/22 21:02	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	10/04/22 13:15	10/04/22 17:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**470**	mg/L	25.0	10.0	1		09/19/22 09:21		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**112**	mg/L	5.0	5.0	1		09/20/22 15:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 15:57		
Alkalinity, Total as CaCO3	**112**	mg/L	5.0	5.0	1		09/20/22 15:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.3**	mg/L	1.0	0.60	1		09/19/22 04:18	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-111D **Lab ID: 92625178011** Collected: 09/14/22 15:11 Received: 09/15/22 08:20 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								
Fluoride	**0.38**	mg/L	0.10	0.050	1		09/19/22 04:18	16984-48-8	
Sulfate	**228**	mg/L	5.0	2.5	5		09/19/22 21:06	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-115D **Lab ID: 92625178012** Collected: 09/14/22 15:26 Received: 09/15/22 08:20 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		09/15/22 17:25		
pH	**5.76**	Std. Units			1		09/15/22 17:25		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**7.5**	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 16:26	7439-89-6	
Potassium	**10.1**	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 16:26	7440-09-7	
Sodium	**21.8**	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 16:26	7440-23-5	
Calcium	**65.5**	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 16:26	7440-70-2	
Magnesium	**16.6**	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 16:26	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 00:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 00:49	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 00:49	7440-39-3	
Beryllium	**0.010**	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 00:49	7440-41-7	
Boron	**0.58**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 00:49	7440-42-8	
Cadmium	**0.00018J**	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 00:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 00:49	7440-47-3	
Cobalt	**0.23**	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 00:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 00:49	7439-92-1	
Lithium	**0.082**	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 00:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 00:49	7439-98-7	
Selenium	**0.0045J**	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 00:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 00:49	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	10/04/22 13:15	10/04/22 17:12	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**519**	mg/L	25.0	10.0	1		09/19/22 09:21		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**8.9**	mg/L	5.0	5.0	1		09/20/22 16:16		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 16:16		
Alkalinity, Total as CaCO3	**8.9**	mg/L	5.0	5.0	1		09/20/22 16:16		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.7**	mg/L	1.0	0.60	1		09/19/22 05:03	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-115D **Lab ID: 92625178012** Collected: 09/14/22 15:26 Received: 09/15/22 08:20 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								
Fluoride	**0.63**	mg/L	0.10	0.050	1		09/19/22 05:03	16984-48-8	
Sulfate	**297**	mg/L	6.0	3.0	6		09/19/22 21:50	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: FB-5 **Lab ID: 92625178013** Collected: 09/14/22 12:20 Received: 09/15/22 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 16:31	7439-89-6	
Potassium	ND	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 16:31	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 16:31	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 16:31	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 16:31	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	09/27/22 18:00	09/29/22 00:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 00:55	7440-38-2	
Barium	**0.0024J**	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 00:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 00:55	7440-41-7	
Boron	**0.018J**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 00:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 00:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 00:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 00:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 00:55	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 00:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 00:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 00:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 00:55	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	10/04/22 13:15	10/04/22 17:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/19/22 09:21		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 16:21		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 16:21		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/20/22 16:21		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/19/22 17:00	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/19/22 17:00	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/19/22 17:00	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-102D **Lab ID: 92625623012** Collected: 09/15/22 12:00 Received: 09/16/22 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/19/22 10:27		
pH	**5.43**	Std. Units			1		09/19/22 10:27		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.033J**	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 22:14	7439-89-6	
Potassium	**6.2**	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 22:14	7440-09-7	
Sodium	**17.9**	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 22:14	7440-23-5	
Calcium	**70.3**	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 22:14	7440-70-2	
Magnesium	**15.0**	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 22:14	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	09/26/22 13:33	09/27/22 19:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 19:57	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 19:57	7440-39-3	
Beryllium	**0.0010**	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 19:57	7440-41-7	
Boron	**2.3**	mg/L	0.40	0.086	10	09/26/22 13:33	09/28/22 16:01	7440-42-8	
Cadmium	**0.00091**	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 19:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 19:57	7440-47-3	
Cobalt	**0.012**	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 19:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 19:57	7439-92-1	
Lithium	**0.013J**	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 19:57	7439-93-2	
Molybdenum	**0.0015J**	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 19:57	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 19:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 19:57	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	09/27/22 07:45	09/27/22 12:51	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**437**	mg/L	25.0	10.0	1		09/20/22 13:21		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**11.6**	mg/L	5.0	5.0	1		09/20/22 17:21		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 17:21		
Alkalinity, Total as CaCO3	**11.6**	mg/L	5.0	5.0	1		09/20/22 17:21		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.9**	mg/L	1.0	0.60	1		09/20/22 19:38	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-102D **Lab ID: 92625623012** Collected: 09/15/22 12:00 Received: 09/16/22 16:30 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								
Fluoride	**0.11**	mg/L	0.10	0.050	1		09/20/22 19:38	16984-48-8	
Sulfate	**258**	mg/L	5.0	2.5	5		09/21/22 12:11	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-108D **Lab ID: 92625623013** Collected: 09/15/22 14:05 Received: 09/16/22 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**FLDWGB**				1		09/19/22 10:27		
pH	**5.86**	Std. Units			1		09/19/22 10:27		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.40**	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 22:19	7439-89-6	
Potassium	**5.5**	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 22:19	7440-09-7	
Sodium	**17.9**	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 22:19	7440-23-5	
Calcium	**85.1**	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 22:19	7440-70-2	
Magnesium	**34.4**	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 22:19	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	09/26/22 13:33	09/27/22 20:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 20:03	7440-38-2	
Barium	**0.054**	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 20:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 20:03	7440-41-7	
Boron	**7.1**	mg/L	0.40	0.086	10	09/26/22 13:33	09/28/22 16:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 20:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 20:03	7440-47-3	
Cobalt	**0.0010J**	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 20:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 20:03	7439-92-1	
Lithium	**0.016J**	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 20:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 20:03	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 20:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 20:03	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	09/27/22 07:45	09/27/22 12:53	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**540**	mg/L	50.0	20.0	1		09/20/22 13:21		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**27.4**	mg/L	5.0	5.0	1		09/20/22 17:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 17:27		
Alkalinity, Total as CaCO3	**27.4**	mg/L	5.0	5.0	1		09/20/22 17:27		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**27.6**	mg/L	1.0	0.60	1		09/20/22 19:53	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-108D **Lab ID: 92625623013** Collected: 09/15/22 14:05 Received: 09/16/22 16:30 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								
Fluoride	**0.061J**	mg/L	0.10	0.050	1		09/20/22 19:53	16984-48-8	
Sulfate	**318**	mg/L	6.0	3.0	6		09/21/22 12:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: FB-6 **Lab ID: 92625623014** Collected: 09/15/22 14:05 Received: 09/16/22 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/26/22 14:09	09/26/22 22:24	7439-89-6	
Potassium	ND	mg/L	0.20	0.15	1	09/26/22 14:09	09/26/22 22:24	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/26/22 14:09	09/26/22 22:24	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/26/22 14:09	09/26/22 22:24	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	09/26/22 14:09	09/26/22 22:24	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	09/26/22 13:33	09/27/22 20:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 20:09	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 20:09	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 20:09	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/26/22 13:33	09/28/22 16:13	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 20:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 20:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 20:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 20:09	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 20:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 20:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 20:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 20:09	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	09/27/22 07:45	09/27/22 12:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**83.0**	mg/L	25.0	10.0	1		09/20/22 13:21		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 17:33		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 17:33		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/20/22 17:33		
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		09/20/22 20:08	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/20/22 20:08	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/20/22 20:08	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-56 **Lab ID: 92625178017** Collected: 09/16/22 10:13 Received: 09/16/22 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/19/22 10:50		
pH	**4.56**	Std. Units			1		09/19/22 10:50		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.052**	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 16:35	7439-89-6	
Potassium	**5.0**	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 16:35	7440-09-7	
Sodium	**22.2**	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 16:35	7440-23-5	
Calcium	**18.4**	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 16:35	7440-70-2	
Magnesium	**34.1**	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 16:35	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 01:13	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 01:13	7440-38-2	
Barium	**0.028**	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 01:13	7440-39-3	
Beryllium	**0.0013**	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 01:13	7440-41-7	
Boron	**1.6**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 01:13	7440-42-8	
Cadmium	**0.00030J**	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 01:13	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 01:13	7440-47-3	
Cobalt	**0.051**	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 01:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 01:13	7439-92-1	
Lithium	**0.0057J**	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 01:13	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 01:13	7439-98-7	
Selenium	**0.010**	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 01:13	7782-49-2	
Thallium	**0.00024J**	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 01:13	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	10/04/22 13:15	10/04/22 17:17	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**353**	mg/L	25.0	10.0	1		09/20/22 13:22		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/21/22 21:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/21/22 21:15		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/21/22 21:15		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.9**	mg/L	1.0	0.60	1		09/21/22 00:21	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-56 **Lab ID: 92625178017** Collected: 09/16/22 10:13 Received: 09/16/22 16:30 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								
Fluoride	**0.22**	mg/L	0.10	0.050	1		09/21/22 00:21	16984-48-8	
Sulfate	**234**	mg/L	5.0	2.5	5		09/21/22 16:05	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-66 **Lab ID: 92625178018** Collected: 09/16/22 10:10 Received: 09/16/22 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/19/22 10:51		
pH	**6.60**	Std. Units			1		09/19/22 10:51		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**3.0**	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 17:24	7439-89-6	
Potassium	**5.5**	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 17:24	7440-09-7	
Sodium	**30.5**	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 17:24	7440-23-5	
Calcium	**63.9**	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 17:24	7440-70-2	
Magnesium	**44.0**	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 17:24	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	09/27/22 18:00	09/29/22 01:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 01:19	7440-38-2	
Barium	**0.020**	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 01:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 01:19	7440-41-7	
Boron	**2.2**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 01:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 01:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 01:19	7440-47-3	
Cobalt	**0.012**	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 01:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 01:19	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 01:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 01:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 01:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 01:19	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	10/04/22 13:15	10/04/22 17:20	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**498**	mg/L	50.0	20.0	1		09/20/22 13:22		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**119**	mg/L	5.0	5.0	1		09/21/22 21:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/21/22 21:20		
Alkalinity, Total as CaCO3	**119**	mg/L	5.0	5.0	1		09/21/22 21:20		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.4**	mg/L	1.0	0.60	1		09/21/22 00:36	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-66 **Lab ID: 92625178018** Collected: 09/16/22 10:10 Received: 09/16/22 16:30 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								
Fluoride	**0.18**	mg/L	0.10	0.050	1		09/21/22 00:36	16984-48-8	
Sulfate	**285**	mg/L	6.0	3.0	6		09/21/22 16:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-88 **Lab ID: 92625178019** Collected: 09/16/22 10:44 Received: 09/16/22 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/19/22 10:51		
pH	**5.47**	Std. Units			1		09/19/22 10:51		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.25**	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 17:28	7439-89-6	
Potassium	**11.3**	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 17:28	7440-09-7	
Sodium	**28.6**	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 17:28	7440-23-5	
Calcium	**97.6**	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 17:28	7440-70-2	
Magnesium	**35.7**	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 17:28	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	09/27/22 18:00	09/29/22 01:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 01:24	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 01:24	7440-39-3	
Beryllium	**0.0013**	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 01:24	7440-41-7	
Boron	**2.1**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 01:24	7440-42-8	
Cadmium	**0.0019**	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 01:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 01:24	7440-47-3	
Cobalt	**0.0014J**	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 01:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 01:24	7439-92-1	
Lithium	**0.0021J**	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 01:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 01:24	7439-98-7	
Selenium	**0.0020J**	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 01:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 01:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 17:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**564**	mg/L	50.0	20.0	1		09/20/22 13:22		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**15.8**	mg/L	5.0	5.0	1		09/21/22 21:30		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/21/22 21:30		
Alkalinity, Total as CaCO3	**15.8**	mg/L	5.0	5.0	1		09/21/22 21:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.7**	mg/L	1.0	0.60	1		09/21/22 00:51	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-88 **Lab ID: 92625178019** Collected: 09/16/22 10:44 Received: 09/16/22 16:30 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								
Fluoride	**0.054J**	mg/L	0.10	0.050	1		09/21/22 00:51	16984-48-8	
Sulfate	**433**	mg/L	9.0	4.5	9		09/21/22 16:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-101D **Lab ID: 92625178020** Collected: 09/16/22 11:30 Received: 09/16/22 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/19/22 10:51		
pH	**5.92**	Std. Units			1		09/19/22 10:51		
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	09/28/22 12:36	09/28/22 17:33	7439-89-6	
Potassium	**6.0**	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 17:33	7440-09-7	
Sodium	**18.9**	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 17:33	7440-23-5	
Calcium	**57.0**	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 17:33	7440-70-2	
Magnesium	**20.7**	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 17:33	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 01:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 01:30	7440-38-2	
Barium	**0.063**	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 01:30	7440-39-3	
Beryllium	**0.000067J**	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 01:30	7440-41-7	
Boron	**1.4**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 01:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 01:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 01:30	7440-47-3	
Cobalt	**0.0035J**	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 01:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 01:30	7439-92-1	
Lithium	**0.011J**	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 01:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 01:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 01:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 01:30	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 17:30	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**365**	mg/L	25.0	10.0	1		09/20/22 13:27		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**35.5**	mg/L	5.0	5.0	1		09/21/22 21:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/21/22 21:35		
Alkalinity, Total as CaCO3	**35.5**	mg/L	5.0	5.0	1		09/21/22 21:35		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.7**	mg/L	1.0	0.60	1		09/21/22 01:06	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-101D **Lab ID: 92625178020** Collected: 09/16/22 11:30 Received: 09/16/22 16:30 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								
Fluoride	**0.099J**	mg/L	0.10	0.050	1		09/21/22 01:06	16984-48-8	
Sulfate	**223**	mg/L	4.0	2.0	4		09/21/22 16:49	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-106D **Lab ID: 92625178021** Collected: 09/16/22 09:16 Received: 09/16/22 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/19/22 10:52		
pH	**5.82**	Std. Units			1		09/19/22 10:52		
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	09/28/22 12:36	09/28/22 17:38	7439-89-6	
Potassium	**3.8**	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 17:38	7440-09-7	
Sodium	**14.6**	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 17:38	7440-23-5	
Calcium	**35.3**	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 17:38	7440-70-2	
Magnesium	**16.7**	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 17:38	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	09/27/22 18:00	09/29/22 01:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 01:48	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 01:48	7440-39-3	
Beryllium	**0.00011J**	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 01:48	7440-41-7	
Boron	**1.0**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 01:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 01:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 01:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 01:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 01:48	7439-92-1	
Lithium	**0.0054J**	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 01:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 01:48	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 01:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 01:48	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	10/04/22 13:15	10/04/22 17:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**240**	mg/L	25.0	10.0	1		09/20/22 13:27		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**29.9**	mg/L	5.0	5.0	1		09/21/22 21:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/21/22 21:52		
Alkalinity, Total as CaCO3	**29.9**	mg/L	5.0	5.0	1		09/21/22 21:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.6**	mg/L	1.0	0.60	1		09/21/22 01:21	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-106D **Lab ID: 92625178021** Collected: 09/16/22 09:16 Received: 09/16/22 16:30 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								
Fluoride	**0.080J**	mg/L	0.10	0.050	1		09/21/22 01:21	16984-48-8	
Sulfate	**137**	mg/L	3.0	1.5	3		09/21/22 17:03	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-82 **Lab ID: 92625178022** Collected: 09/16/22 12:15 Received: 09/16/22 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/19/22 10:52		
pH	**5.02**	Std. Units			1		09/19/22 10:52		
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	09/28/22 12:36	09/28/22 17:43	7439-89-6	
Potassium	**5.3**	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 17:43	7440-09-7	
Sodium	**17.1**	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 17:43	7440-23-5	
Calcium	**34.3**	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 17:43	7440-70-2	
Magnesium	**79.6**	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 17:43	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	09/27/22 18:00	09/29/22 01:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 01:54	7440-38-2	
Barium	**0.020**	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 01:54	7440-39-3	
Beryllium	**0.0020**	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 01:54	7440-41-7	
Boron	**0.61**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 01:54	7440-42-8	
Cadmium	**0.00073**	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 01:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 01:54	7440-47-3	
Cobalt	**0.0017J**	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 01:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 01:54	7439-92-1	
Lithium	**0.00078J**	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 01:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 01:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 01:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 01:54	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	10/04/22 13:15	10/04/22 17:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**468**	mg/L	50.0	20.0	1		09/20/22 13:27		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**5.0**	mg/L	5.0	5.0	1		09/21/22 21:59		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/21/22 21:59		
Alkalinity, Total as CaCO3	**5.0**	mg/L	5.0	5.0	1		09/21/22 21:59		
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		09/21/22 01:36	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-82 **Lab ID: 92625178022** Collected: 09/16/22 12:15 Received: 09/16/22 16:30 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								
Fluoride	**0.079J**	mg/L	0.10	0.050	1		09/21/22 01:36	16984-48-8	
Sulfate	**404**	mg/L	8.0	4.0	8		09/21/22 17:18	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-120D **Lab ID: 92625178023** Collected: 09/19/22 14:55 Received: 09/20/22 09:50 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		09/20/22 11:29		
pH	**5.21**	Std. Units			1		09/20/22 11:29		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.070**	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 18:23	7439-89-6	
Potassium	**9.3**	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 18:23	7440-09-7	
Sodium	**33.1**	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 18:23	7440-23-5	
Calcium	**142**	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 18:23	7440-70-2	
Magnesium	**31.8**	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 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	09/27/22 18:00	09/29/22 02:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 02:00	7440-38-2	
Barium	**0.023**	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 02:00	7440-39-3	
Beryllium	**0.0011**	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 02:00	7440-41-7	
Boron	**1.7**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 02:00	7440-42-8	
Cadmium	**0.0012**	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 02:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 02:00	7440-47-3	
Cobalt	**0.0027J**	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 02:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 02:00	7439-92-1	
Lithium	**0.076**	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 02:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 02:00	7439-98-7	
Selenium	**0.0038J**	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 02:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 02:00	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	10/04/22 13:15	10/04/22 17:38	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**27.8**	mg/L	5.0	5.0	1		09/22/22 08:18		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/22/22 08:18		
Alkalinity, Total as CaCO3	**27.8**	mg/L	5.0	5.0	1		09/22/22 08:18		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**867**	mg/L	25.0	25.0	1		09/23/22 10:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.8**	mg/L	1.0	0.60	1		09/22/22 04:33	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-120D **Lab ID: 92625178023** Collected: 09/19/22 14:55 Received: 09/20/22 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.057J**	mg/L	0.10	0.050	1		09/22/22 04:33	16984-48-8	
Sulfate	**489**	mg/L	8.0	4.0	8		09/22/22 10:53	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: EB-6 **Lab ID: 92625178024** Collected: 09/19/22 15:30 Received: 09/20/22 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 18:28	7439-89-6	
Potassium	ND	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 18:28	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 18:28	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 18:28	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 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	09/27/22 18:00	09/29/22 02:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 02:06	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 02:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 02:06	7440-41-7	
Boron	**0.019J**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 02:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 02:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 02:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 02:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 02:06	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 02:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 02:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 02:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 02:06	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 17:41	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/22/22 08:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/22/22 08:26		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/22/22 08:26		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		09/23/22 10:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/22/22 04:48	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/22/22 04:48	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/22/22 04:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-109D **Lab ID: 92625178025** Collected: 09/20/22 14:33 Received: 09/21/22 15:05 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		09/21/22 16:48		
pH	**6.38**	Std. Units			1		09/21/22 16:48		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**13.6**	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 18:32	7439-89-6	
Potassium	**7.4**	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 18:32	7440-09-7	
Sodium	**22.1**	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 18:32	7440-23-5	
Calcium	**40.5**	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 18:32	7440-70-2	
Magnesium	**11.7**	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 18:32	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 02:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 02:12	7440-38-2	
Barium	**0.055**	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 02:12	7440-39-3	
Beryllium	**0.000080J**	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 02:12	7440-41-7	
Boron	**0.61**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 02:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 02:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 02:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 02:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 02:12	7439-92-1	
Lithium	**0.013J**	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 02:12	7439-93-2	
Molybdenum	**0.0014J**	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 02:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 02:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 02:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/04/22 13:15	10/04/22 17:43	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**96.2**	mg/L	5.0	5.0	1		09/22/22 23:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/22/22 23:01		
Alkalinity, Total as CaCO3	**96.2**	mg/L	5.0	5.0	1		09/22/22 23:01		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**327**	mg/L	25.0	25.0	1		09/23/22 10:03		
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		09/23/22 03:26	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Sample: B-109D **Lab ID: 92625178025** Collected: 09/20/22 14:33 Received: 09/21/22 15:05 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								
Fluoride	**0.15**	mg/L	0.10	0.050	1		09/23/22 03:26	16984-48-8	
Sulfate	**108**	mg/L	2.0	1.0	2		09/23/22 12:12	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

QC Batch: 725787
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625623012, 92625623013, 92625623014

METHOD BLANK: 3780823 Matrix: Water
Associated Lab Samples: 92625623012, 92625623013, 92625623014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/26/22 20:39	
Iron	mg/L	ND	0.040	0.025	09/26/22 20:39	
Magnesium	mg/L	ND	0.050	0.012	09/26/22 20:39	
Potassium	mg/L	ND	0.20	0.15	09/26/22 20:39	
Sodium	mg/L	ND	1.0	0.58	09/26/22 20:39	

LABORATORY CONTROL SAMPLE: 3780824

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	105	80-120	
Iron	mg/L	1	1.0	104	80-120	
Magnesium	mg/L	1	1.1	106	80-120	
Potassium	mg/L	1	0.98	98	80-120	
Sodium	mg/L	1	1.1	113	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3780825 3780826

Parameter	Units	92625623001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	11.2	1	1	11.8	12.0	61	81	75-125	2	20	M1
Iron	mg/L	0.040	1	1	1.1	1.1	102	101	75-125	1	20	
Magnesium	mg/L	4.7	1	1	5.5	5.6	83	94	75-125	2	20	
Potassium	mg/L	3.2	1	1	4.1	4.1	95	93	75-125	0	20	
Sodium	mg/L	7.0	1	1	7.7	7.8	73	80	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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

QC Batch: 726040
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625178008, 92625178009, 92625178010, 92625178011, 92625178012, 92625178013, 92625178017

METHOD BLANK: 3781867 Matrix: Water
Associated Lab Samples: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625178008, 92625178009, 92625178010, 92625178011, 92625178012, 92625178013, 92625178017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/27/22 14:37	
Iron	mg/L	ND	0.040	0.025	09/27/22 14:37	
Magnesium	mg/L	ND	0.050	0.012	09/27/22 14:37	
Potassium	mg/L	ND	0.20	0.15	09/27/22 14:37	
Sodium	mg/L	ND	1.0	0.58	09/27/22 14:37	

LABORATORY CONTROL SAMPLE: 3781868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Iron	mg/L	1	1.1	106	80-120	
Magnesium	mg/L	1	1.1	107	80-120	
Potassium	mg/L	1	1.1	109	80-120	
Sodium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3781869 3781870

Parameter	Units	92625178001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	104	1	1	105	103	64	-98	75-125	2	20	M1
Iron	mg/L	0.036J	1	1	1.0	0.96	97	93	75-125	4	20	
Magnesium	mg/L	17.4	1	1	18.3	17.8	95	44	75-125	3	20	M1
Potassium	mg/L	5.7	1	1	6.7	6.7	96	94	75-125	0	20	
Sodium	mg/L	18.4	1	1	19.4	19.1	97	76	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

QC Batch: 726415
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625178023, 92625178024, 92625178025

METHOD BLANK: 3783437 Matrix: Water
Associated Lab Samples: 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625178023, 92625178024, 92625178025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/28/22 16:00	
Iron	mg/L	ND	0.040	0.025	09/28/22 16:00	
Magnesium	mg/L	ND	0.050	0.012	09/28/22 16:00	
Potassium	mg/L	ND	0.20	0.15	09/28/22 16:00	
Sodium	mg/L	ND	1.0	0.58	09/28/22 16:00	

LABORATORY CONTROL SAMPLE: 3783438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Iron	mg/L	1	1.0	104	80-120	
Magnesium	mg/L	1	1.1	108	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Sodium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3783439 3783440

Parameter	Units	92625189005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	10.4	1	1	11.7	11.7	130	136	75-125	1	20	M1
Iron	mg/L	1.5	1	1	2.6	2.6	106	107	75-125	0	20	
Magnesium	mg/L	3.2	1	1	4.3	4.4	113	123	75-125	2	20	
Potassium	mg/L	2.0	1	1	3.0	3.1	103	108	75-125	2	20	
Sodium	mg/L	10.2	1	1	11.5	11.5	129	135	75-125	0	20	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

QC Batch: 725788
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625623012, 92625623013, 92625623014

METHOD BLANK: 3780835 Matrix: Water
Associated Lab Samples: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625623012, 92625623013, 92625623014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/27/22 18:21	
Arsenic	mg/L	ND	0.0050	0.0022	09/27/22 18:21	
Barium	mg/L	ND	0.0050	0.00067	09/27/22 18:21	
Beryllium	mg/L	ND	0.00050	0.000054	09/27/22 18:21	
Boron	mg/L	ND	0.040	0.0086	09/27/22 18:21	
Cadmium	mg/L	ND	0.00050	0.00011	09/27/22 18:21	
Chromium	mg/L	ND	0.0050	0.0011	09/27/22 18:21	
Cobalt	mg/L	ND	0.0050	0.00039	09/27/22 18:21	
Lead	mg/L	ND	0.0010	0.00089	09/27/22 18:21	
Lithium	mg/L	ND	0.030	0.00073	09/27/22 18:21	
Molybdenum	mg/L	ND	0.010	0.00074	09/27/22 18:21	
Selenium	mg/L	ND	0.0050	0.0014	09/27/22 18:21	
Thallium	mg/L	ND	0.0010	0.00018	09/27/22 18:21	

LABORATORY CONTROL SAMPLE: 3780836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.11	108	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3780837 3780838

Parameter	Units	92625178001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	104	106	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3780837 3780838

Parameter	Units	92625178001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	99	98	75-125	1	20	
Barium	mg/L	0.017	0.1	0.1	0.11	0.11	94	95	75-125	0	20	
Beryllium	mg/L	0.017	0.1	0.1	0.11	0.11	94	92	75-125	2	20	
Boron	mg/L	2.9	1	1	3.7	3.7	80	81	75-125	0	20	
Cadmium	mg/L	0.0014	0.1	0.1	0.10	0.098	98	97	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.092	0.093	91	92	75-125	1	20	
Cobalt	mg/L	0.073	0.1	0.1	0.16	0.16	91	91	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.087	0.087	87	87	75-125	0	20	
Lithium	mg/L	0.015J	0.1	0.1	0.12	0.12	102	102	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	99	75-125	2	20	
Selenium	mg/L	0.012	0.1	0.1	0.11	0.11	96	96	75-125	0	20	
Thallium	mg/L	0.00020J	0.1	0.1	0.088	0.088	88	88	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

QC Batch: 726042
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625178008, 92625178009, 92625178010, 92625178011

METHOD BLANK: 3781878 Matrix: Water
Associated Lab Samples: 92625178008, 92625178009, 92625178010, 92625178011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/28/22 20:14	
Arsenic	mg/L	ND	0.0050	0.0022	09/28/22 20:14	
Barium	mg/L	ND	0.0050	0.00067	09/28/22 20:14	
Beryllium	mg/L	ND	0.00050	0.000054	09/28/22 20:14	
Boron	mg/L	ND	0.040	0.0086	09/28/22 20:14	
Cadmium	mg/L	ND	0.00050	0.00011	09/28/22 20:14	
Chromium	mg/L	ND	0.0050	0.0011	09/28/22 20:14	
Cobalt	mg/L	ND	0.0050	0.00039	09/28/22 20:14	
Lead	mg/L	ND	0.0010	0.00089	09/28/22 20:14	
Lithium	mg/L	ND	0.030	0.00073	09/28/22 20:14	
Molybdenum	mg/L	ND	0.010	0.00074	09/28/22 20:14	
Selenium	mg/L	ND	0.0050	0.0014	09/28/22 20:14	
Thallium	mg/L	ND	0.0010	0.00018	09/28/22 20:14	

LABORATORY CONTROL SAMPLE: 3781879

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	105	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.11	105	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3781880 3781881

Parameter	Units	92625178008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	105	105	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3781880 3781881

Parameter	Units	92625178008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.089	0.1	0.1	0.19	0.19	100	99	75-125	0	20	
Beryllium	mg/L	0.00013J	0.1	0.1	0.096	0.097	96	97	75-125	1	20	
Boron	mg/L	0.33	1	1	1.3	1.3	99	101	75-125	2	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	0.095	0.096	95	95	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.099	0.097	98	97	75-125	2	20	
Lithium	mg/L	0.0020J	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

QC Batch: 726202
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625178012, 92625178013, 92625178017, 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625178023, 92625178024, 92625178025

METHOD BLANK: 3782708 Matrix: Water
Associated Lab Samples: 92625178012, 92625178013, 92625178017, 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625178023, 92625178024, 92625178025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/28/22 23:25	
Arsenic	mg/L	ND	0.0050	0.0022	09/28/22 23:25	
Barium	mg/L	ND	0.0050	0.00067	09/28/22 23:25	
Beryllium	mg/L	ND	0.00050	0.000054	09/28/22 23:25	
Boron	mg/L	ND	0.040	0.0086	09/28/22 23:25	
Cadmium	mg/L	ND	0.00050	0.00011	09/28/22 23:25	
Chromium	mg/L	ND	0.0050	0.0011	09/28/22 23:25	
Cobalt	mg/L	ND	0.0050	0.00039	09/28/22 23:25	
Lead	mg/L	ND	0.0010	0.00089	09/28/22 23:25	
Lithium	mg/L	ND	0.030	0.00073	09/28/22 23:25	
Molybdenum	mg/L	ND	0.010	0.00074	09/28/22 23:25	
Selenium	mg/L	ND	0.0050	0.0014	09/28/22 23:25	
Thallium	mg/L	ND	0.0010	0.00018	09/28/22 23:25	

LABORATORY CONTROL SAMPLE: 3782709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3782710 3782711

Parameter	Units	92625189001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	100	103	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3782710 3782711

Parameter	Units	92625189001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	1	20	
Barium	mg/L	0.014	0.1	0.1	0.11	0.11	93	96	75-125	3	20	
Beryllium	mg/L	0.0018	0.1	0.1	0.093	0.092	91	91	75-125	0	20	
Boron	mg/L	2.6	1	1	3.7	3.7	107	107	75-125	0	20	
Cadmium	mg/L	0.00092	0.1	0.1	0.098	0.10	97	100	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.090	0.089	90	89	75-125	1	20	
Cobalt	mg/L	0.0032J	0.1	0.1	0.094	0.094	90	91	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.090	0.091	90	90	75-125	0	20	
Lithium	mg/L	0.0052J	0.1	0.1	0.10	0.10	97	96	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.094	0.095	93	95	75-125	1	20	
Selenium	mg/L	0.0020J	0.1	0.1	0.099	0.098	97	96	75-125	1	20	
Thallium	mg/L	0.00020J	0.1	0.1	0.091	0.090	91	90	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

QC Batch: 725890
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625623012, 92625623013, 92625623014

METHOD BLANK: 3781485 Matrix: Water
Associated Lab Samples: 92625623012, 92625623013, 92625623014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/27/22 11:00	

LABORATORY CONTROL SAMPLE: 3781486

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: 3781487 3781488

Parameter	Units	92624372011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0018	94	71	75-125	28	20	M1,R1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

QC Batch: 727738
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625178008, 92625178009, 92625178010, 92625178011, 92625178012, 92625178013, 92625178017, 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625178023, 92625178024, 92625178025

METHOD BLANK: 3789719
Matrix: Water
Associated Lab Samples: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625178008, 92625178009, 92625178010, 92625178011, 92625178012, 92625178013, 92625178017, 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625178023, 92625178024, 92625178025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	10/04/22 16:27	

LABORATORY CONTROL SAMPLE: 3789720

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3789721 3789722

Parameter	Units	92625178003 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	0.0022	88	88	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

QC Batch: 723649 | 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: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625178008

METHOD BLANK: 3770574 Matrix: Water
Associated Lab Samples: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625178008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/16/22 14:32	

LABORATORY CONTROL SAMPLE: 3770575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	376	94	80-120	

SAMPLE DUPLICATE: 3770576

Parameter	Units	92625261006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	119	120	1	10	

SAMPLE DUPLICATE: 3770577

Parameter	Units	92625178007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	214	213	0	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

QC Batch: 724043 | 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: 92625178009, 92625178010, 92625178011, 92625178012, 92625178013

METHOD BLANK: 3772705 Matrix: Water
Associated Lab Samples: 92625178009, 92625178010, 92625178011, 92625178012, 92625178013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/19/22 09:17	

LABORATORY CONTROL SAMPLE: 3772706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	386	96	80-120	

SAMPLE DUPLICATE: 3772708

Parameter	Units	92625623010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	572	582	2	10	

SAMPLE DUPLICATE: 3772903

Parameter	Units	92625178010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	582	578	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

QC Batch: 724233 — 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: 92625178017, 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625623012, 92625623013, 92625623014

METHOD BLANK: 3773743 — Matrix: Water
Associated Lab Samples: 92625178017, 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625623012, 92625623013, 92625623014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/20/22 13:21	

LABORATORY CONTROL SAMPLE: 3773744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	346	86	80-120	

SAMPLE DUPLICATE: 3773745

Parameter	Units	92625623012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	437	420	4	10	

SAMPLE DUPLICATE: 3773746

Parameter	Units	92625623021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	440	405	8	10	

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REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

QC Batch: 724377
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625178008

METHOD BLANK: 3774158 Matrix: Water
Associated Lab Samples: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625178008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/20/22 11:40	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/20/22 11:40	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/20/22 11:40	

LABORATORY CONTROL SAMPLE: 3774159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.3	103	80-120	

LABORATORY CONTROL SAMPLE: 3774160

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.1	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774163 3774164

Parameter	Units	92625178004 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	54.0	50	50	108	107	108	106	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774267 3774268

Parameter	Units	92625623018 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	33.6	50	50	77.4	78.7	88	90	80-120	2	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

QC Batch: 724379
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625178009, 92625178010, 92625178011, 92625178012, 92625178013, 92625623012, 92625623013, 92625623014

METHOD BLANK: 3774170 Matrix: Water
Associated Lab Samples: 92625178009, 92625178010, 92625178011, 92625178012, 92625178013, 92625623012, 92625623013, 92625623014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/20/22 15:05	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/20/22 15:05	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/20/22 15:05	

LABORATORY CONTROL SAMPLE: 3774171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.8	104	80-120	

LABORATORY CONTROL SAMPLE: 3774172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774173 3774174

Parameter	Units	92625623006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	50.8	51.4	102	103	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774175 3774176

Parameter	Units	92625623011 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	56.4	56.1	104	104	80-120	1	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

QC Batch: 724724
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625178017, 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625178023, 92625178024

METHOD BLANK: 3775744 Matrix: Water
Associated Lab Samples: 92625178017, 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625178023, 92625178024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/21/22 20:39	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/21/22 20:39	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/21/22 20:39	

LABORATORY CONTROL SAMPLE: 3775745

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

LABORATORY CONTROL SAMPLE: 3775746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775747 3775748

Parameter	Units	92626314001 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	24.7	50	50	76.3	74.5	103	99	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775749 3775750

Parameter	Units	92626676015 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	52.0	51.2	103	102	80-120	2	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

QC Batch: 725081
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625178025

METHOD BLANK: 3777562 Matrix: Water
Associated Lab Samples: 92625178025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/23/22 14:29	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/23/22 14:29	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/23/22 14:29	

LABORATORY CONTROL SAMPLE: 3777563

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.5	101	80-120	

LABORATORY CONTROL SAMPLE: 3777564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.4	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777565 3777566

Parameter	Units	92626727004 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	449	50	50	471	468	43	37	80-120	1	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777567 3777568

Parameter	Units	92626727005 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	149	50	50	207	200	116	103	80-120	3	25	

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

QC Batch: 725355
QC Batch Method: SM 2540C-2011
Analysis Method: SM 2540C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625178023, 92625178024, 92625178025

METHOD BLANK: 3778984 Matrix: Water
Associated Lab Samples: 92625178023, 92625178024, 92625178025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/23/22 10:01	

LABORATORY CONTROL SAMPLE: 3778985

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	242	97	90-110	

SAMPLE DUPLICATE: 3778986

Parameter	Units	92626923001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	29.0	33.0	13	25	

SAMPLE DUPLICATE: 3778987

Parameter	Units	92626865001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2430	2480	2	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

QC Batch: 723824
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625178008

METHOD BLANK: 3771604 Matrix: Water
Associated Lab Samples: 92625178003, 92625178004, 92625178005, 92625178006, 92625178007, 92625178008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/17/22 16:27	
Fluoride	mg/L	ND	0.10	0.050	09/17/22 16:27	
Sulfate	mg/L	ND	1.0	0.50	09/17/22 16:27	

LABORATORY CONTROL SAMPLE: 3771605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.5	103	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	51.9	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3771606 3771607

Parameter	Units	92625657001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.5	50	50	56.7	57.0	102	103	90-110	0	10	
Fluoride	mg/L	0.10	2.5	2.5	2.4	2.4	93	93	90-110	0	10	
Sulfate	mg/L	5.4	50	50	56.6	56.8	103	103	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3771608 3771609

Parameter	Units	92625178005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.9	50	50	56.3	56.5	103	103	90-110	0	10	
Fluoride	mg/L	0.18	2.5	2.5	2.5	2.5	93	93	90-110	0	10	
Sulfate	mg/L	92.1	50	50	143	144	103	103	90-110	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

QC Batch: 724055
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625178009, 92625178010, 92625178011, 92625178012, 92625178013

METHOD BLANK: 3772745 Matrix: Water
Associated Lab Samples: 92625178009, 92625178010, 92625178011, 92625178012, 92625178013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/19/22 00:00	
Fluoride	mg/L	ND	0.10	0.050	09/19/22 00:00	
Sulfate	mg/L	ND	1.0	0.50	09/19/22 00:00	

LABORATORY CONTROL SAMPLE: 3772746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3772749 3772750

Parameter	Units	92625178011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.3	50	50	61.5	61.6	102	103	90-110	0	10	
Fluoride	mg/L	0.38	2.5	2.5	3.0	3.0	106	107	90-110	1	10	
Sulfate	mg/L	228	50	50	276	279	97	102	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3772755 3772756

Parameter	Units	92625980001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.6	50	50	53.2	53.2	101	101	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	101	102	90-110	0	10	
Sulfate	mg/L	5.5	50	50	56.9	56.6	103	102	90-110	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

QC Batch: 724437
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625178017, 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625623012, 92625623013, 92625623014

METHOD BLANK: 3774398 Matrix: Water
Associated Lab Samples: 92625178017, 92625178018, 92625178019, 92625178020, 92625178021, 92625178022, 92625623012, 92625623013, 92625623014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/20/22 18:23	
Fluoride	mg/L	ND	0.10	0.050	09/20/22 18:23	
Sulfate	mg/L	ND	1.0	0.50	09/20/22 18:23	

LABORATORY CONTROL SAMPLE: 3774399

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.4	99	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	50.2	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774400 3774401

Parameter	Units	92626469002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	105	50	50	159	159	108	107	90-110	0	10	
Fluoride	mg/L	0.49	2.5	2.5	3.1	3.2	106	107	90-110	1	10	
Sulfate	mg/L	31.2	50	50	82.4	82.6	102	103	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774402 3774403

Parameter	Units	92625623020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	26.2	50	50	77.4	77.1	102	102	90-110	0	10	
Fluoride	mg/L	0.69	2.5	2.5	3.2	3.3	102	104	90-110	1	10	
Sulfate	mg/L	462	50	50	509	510	92	95	90-110	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

QC Batch: 724821
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625178023, 92625178024

METHOD BLANK: 3776265 Matrix: Water
Associated Lab Samples: 92625178023, 92625178024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/22/22 02:00	
Fluoride	mg/L	ND	0.10	0.050	09/22/22 02:00	
Sulfate	mg/L	ND	1.0	0.50	09/22/22 02:00	

LABORATORY CONTROL SAMPLE: 3776266

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.4	97	90-110	
Fluoride	mg/L	2.5	2.5	102	90-110	
Sulfate	mg/L	50	48.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3776267 3776268

Parameter	Units	92625186007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	369	50	50	418	412	98	87	90-110	1	10	M1
Fluoride	mg/L	15.4	2.5	2.5	17.5	17.2	81	72	90-110	1	10	M1
Sulfate	mg/L	72.6	50	50	115	113	85	81	90-110	1	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

QC Batch: 725140
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625178025

METHOD BLANK: 3777923 Matrix: Water
Associated Lab Samples: 92625178025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/22/22 20:18	
Fluoride	mg/L	ND	0.10	0.050	09/22/22 20:18	
Sulfate	mg/L	ND	1.0	0.50	09/22/22 20:18	

LABORATORY CONTROL SAMPLE: 3777924

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.3	95	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	47.6	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777925 3777926

Parameter	Units	92626959007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	12.9	50	50	61.1	61.1	96	96	90-110	0	10	
Fluoride	mg/L	0.23	2.5	2.5	2.7	2.7	98	97	90-110	1	10	
Sulfate	mg/L	31.0	50	50	79.4	79.5	97	97	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777927 3777928

Parameter	Units	92626959011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	15.2	50	50	63.1	63.7	96	97	90-110	1	10	
Fluoride	mg/L	0.38	2.5	2.5	2.9	2.9	101	102	90-110	1	10	
Sulfate	mg/L	ND	50	50	47.9	48.6	95	96	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

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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(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625178003	**B-83**				
92625178004	**B-97**				
92625178005	**B-98**				
92625178006	**B-104D**				
92625178008	**B-77**				
92625178009	**B-63**				
92625178010	**B-107D**				
92625178011	**B-111D**				
92625178012	**B-115D**				
92625623012	**B-102D**				
92625623013	**B-108D**				
92625178017	**B-56**				
92625178018	**B-66**				
92625178019	**B-88**				
92625178020	**B-101D**				
92625178021	**B-106D**				
92625178022	**B-82**				
92625178023	**B-120D**				
92625178025	**B-109D**				
92625178003	**B-83**	EPA 3010A	726040	EPA 6010D	726131
92625178004	**B-97**	EPA 3010A	726040	EPA 6010D	726131
92625178005	**B-98**	EPA 3010A	726040	EPA 6010D	726131
92625178006	**B-104D**	EPA 3010A	726040	EPA 6010D	726131
92625178007	**DUP-4**	EPA 3010A	726040	EPA 6010D	726131
92625178008	**B-77**	EPA 3010A	726040	EPA 6010D	726131
92625178009	**B-63**	EPA 3010A	726040	EPA 6010D	726131
92625178010	**B-107D**	EPA 3010A	726040	EPA 6010D	726131
92625178011	**B-111D**	EPA 3010A	726040	EPA 6010D	726131
92625178012	**B-115D**	EPA 3010A	726040	EPA 6010D	726131
92625178013	**FB-5**	EPA 3010A	726040	EPA 6010D	726131
92625623012	**B-102D**	EPA 3010A	725787	EPA 6010D	725888
92625623013	**B-108D**	EPA 3010A	725787	EPA 6010D	725888
92625623014	**FB-6**	EPA 3010A	725787	EPA 6010D	725888
92625178017	**B-56**	EPA 3010A	726040	EPA 6010D	726131
92625178018	**B-66**	EPA 3010A	726415	EPA 6010D	726515
92625178019	**B-88**	EPA 3010A	726415	EPA 6010D	726515
92625178020	**B-101D**	EPA 3010A	726415	EPA 6010D	726515
92625178021	**B-106D**	EPA 3010A	726415	EPA 6010D	726515
92625178022	**B-82**	EPA 3010A	726415	EPA 6010D	726515
92625178023	**B-120D**	EPA 3010A	726415	EPA 6010D	726515
92625178024	**EB-6**	EPA 3010A	726415	EPA 6010D	726515
92625178025	**B-109D**	EPA 3010A	726415	EPA 6010D	726515
92625178003	**B-83**	EPA 3005A	725788	EPA 6020B	725909
92625178004	**B-97**	EPA 3005A	725788	EPA 6020B	725909
92625178005	**B-98**	EPA 3005A	725788	EPA 6020B	725909
92625178006	**B-104D**	EPA 3005A	725788	EPA 6020B	725909

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625178007	**DUP-4**	EPA 3005A	725788	EPA 6020B	725909
92625178008	**B-77**	EPA 3005A	726042	EPA 6020B	726149
92625178009	**B-63**	EPA 3005A	726042	EPA 6020B	726149
92625178010	**B-107D**	EPA 3005A	726042	EPA 6020B	726149
92625178011	**B-111D**	EPA 3005A	726042	EPA 6020B	726149
92625178012	**B-115D**	EPA 3005A	726202	EPA 6020B	726322
92625178013	**FB-5**	EPA 3005A	726202	EPA 6020B	726322
92625623012	**B-102D**	EPA 3005A	725788	EPA 6020B	725909
92625623013	**B-108D**	EPA 3005A	725788	EPA 6020B	725909
92625623014	**FB-6**	EPA 3005A	725788	EPA 6020B	725909
92625178017	**B-56**	EPA 3005A	726202	EPA 6020B	726322
92625178018	**B-66**	EPA 3005A	726202	EPA 6020B	726322
92625178019	**B-88**	EPA 3005A	726202	EPA 6020B	726322
92625178020	**B-101D**	EPA 3005A	726202	EPA 6020B	726322
92625178021	**B-106D**	EPA 3005A	726202	EPA 6020B	726322
92625178022	**B-82**	EPA 3005A	726202	EPA 6020B	726322
92625178023	**B-120D**	EPA 3005A	726202	EPA 6020B	726322
92625178024	**EB-6**	EPA 3005A	726202	EPA 6020B	726322
92625178025	**B-109D**	EPA 3005A	726202	EPA 6020B	726322
92625178003	**B-83**	EPA 7470A	727738	EPA 7470A	727817
92625178004	**B-97**	EPA 7470A	727738	EPA 7470A	727817
92625178005	**B-98**	EPA 7470A	727738	EPA 7470A	727817
92625178006	**B-104D**	EPA 7470A	727738	EPA 7470A	727817
92625178007	**DUP-4**	EPA 7470A	727738	EPA 7470A	727817
92625178008	**B-77**	EPA 7470A	727738	EPA 7470A	727817
92625178009	**B-63**	EPA 7470A	727738	EPA 7470A	727817
92625178010	**B-107D**	EPA 7470A	727738	EPA 7470A	727817
92625178011	**B-111D**	EPA 7470A	727738	EPA 7470A	727817
92625178012	**B-115D**	EPA 7470A	727738	EPA 7470A	727817
92625178013	**FB-5**	EPA 7470A	727738	EPA 7470A	727817
92625623012	**B-102D**	EPA 7470A	725890	EPA 7470A	726012
92625623013	**B-108D**	EPA 7470A	725890	EPA 7470A	726012
92625623014	**FB-6**	EPA 7470A	725890	EPA 7470A	726012
92625178017	**B-56**	EPA 7470A	727738	EPA 7470A	727817
92625178018	**B-66**	EPA 7470A	727738	EPA 7470A	727817
92625178019	**B-88**	EPA 7470A	727738	EPA 7470A	727817
92625178020	**B-101D**	EPA 7470A	727738	EPA 7470A	727817
92625178021	**B-106D**	EPA 7470A	727738	EPA 7470A	727817
92625178022	**B-82**	EPA 7470A	727738	EPA 7470A	727817
92625178023	**B-120D**	EPA 7470A	727738	EPA 7470A	727817
92625178024	**EB-6**	EPA 7470A	727738	EPA 7470A	727817
92625178025	**B-109D**	EPA 7470A	727738	EPA 7470A	727817
92625178003	**B-83**	SM 2540C-2015	723649		
92625178004	**B-97**	SM 2540C-2015	723649		
92625178005	**B-98**	SM 2540C-2015	723649		

REPORT OF LABORATORY ANALYSIS

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(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625178006	**B-104D**	SM 2540C-2015	723649		
92625178007	**DUP-4**	SM 2540C-2015	723649		
92625178008	**B-77**	SM 2540C-2015	723649		
92625178009	**B-63**	SM 2540C-2015	724043		
92625178010	**B-107D**	SM 2540C-2015	724043		
92625178011	**B-111D**	SM 2540C-2015	724043		
92625178012	**B-115D**	SM 2540C-2015	724043		
92625178013	**FB-5**	SM 2540C-2015	724043		
92625623012	**B-102D**	SM 2540C-2015	724233		
92625623013	**B-108D**	SM 2540C-2015	724233		
92625623014	**FB-6**	SM 2540C-2015	724233		
92625178017	**B-56**	SM 2540C-2015	724233		
92625178018	**B-66**	SM 2540C-2015	724233		
92625178019	**B-88**	SM 2540C-2015	724233		
92625178020	**B-101D**	SM 2540C-2015	724233		
92625178021	**B-106D**	SM 2540C-2015	724233		
92625178022	**B-82**	SM 2540C-2015	724233		
92625178003	**B-83**	SM 2320B-2011	724377		
92625178004	**B-97**	SM 2320B-2011	724377		
92625178005	**B-98**	SM 2320B-2011	724377		
92625178006	**B-104D**	SM 2320B-2011	724377		
92625178007	**DUP-4**	SM 2320B-2011	724377		
92625178008	**B-77**	SM 2320B-2011	724377		
92625178009	**B-63**	SM 2320B-2011	724379		
92625178010	**B-107D**	SM 2320B-2011	724379		
92625178011	**B-111D**	SM 2320B-2011	724379		
92625178012	**B-115D**	SM 2320B-2011	724379		
92625178013	**FB-5**	SM 2320B-2011	724379		
92625623012	**B-102D**	SM 2320B-2011	724379		
92625623013	**B-108D**	SM 2320B-2011	724379		
92625623014	**FB-6**	SM 2320B-2011	724379		
92625178017	**B-56**	SM 2320B-2011	724724		
92625178018	**B-66**	SM 2320B-2011	724724		
92625178019	**B-88**	SM 2320B-2011	724724		
92625178020	**B-101D**	SM 2320B-2011	724724		
92625178021	**B-106D**	SM 2320B-2011	724724		
92625178022	**B-82**	SM 2320B-2011	724724		
92625178023	**B-120D**	SM 2320B-2011	724724		
92625178024	**EB-6**	SM 2320B-2011	724724		
92625178025	**B-109D**	SM 2320B-2011	725081		
92625178023	**B-120D**	SM 2540C-2011	725355		
92625178024	**EB-6**	SM 2540C-2011	725355		
92625178025	**B-109D**	SM 2540C-2011	725355		
92625178003	**B-83**	EPA 300.0 Rev 2.1 1993	723824		
92625178004	**B-97**	EPA 300.0 Rev 2.1 1993	723824		

REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-2-3/4 Assessment-Revised Report
Pace Project No.: 92625178

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625178005	**B-98**	EPA 300.0 Rev 2.1 1993	723824		
92625178006	**B-104D**	EPA 300.0 Rev 2.1 1993	723824		
92625178007	**DUP-4**	EPA 300.0 Rev 2.1 1993	723824		
92625178008	**B-77**	EPA 300.0 Rev 2.1 1993	723824		
92625178009	**B-63**	EPA 300.0 Rev 2.1 1993	724055		
92625178010	**B-107D**	EPA 300.0 Rev 2.1 1993	724055		
92625178011	**B-111D**	EPA 300.0 Rev 2.1 1993	724055		
92625178012	**B-115D**	EPA 300.0 Rev 2.1 1993	724055		
92625178013	**FB-5**	EPA 300.0 Rev 2.1 1993	724055		
92625623012	**B-102D**	EPA 300.0 Rev 2.1 1993	724437		
92625623013	**B-108D**	EPA 300.0 Rev 2.1 1993	724437		
92625623014	**FB-6**	EPA 300.0 Rev 2.1 1993	724437		
92625178017	**B-56**	EPA 300.0 Rev 2.1 1993	724437		
92625178018	**B-66**	EPA 300.0 Rev 2.1 1993	724437		
92625178019	**B-88**	EPA 300.0 Rev 2.1 1993	724437		
92625178020	**B-101D**	EPA 300.0 Rev 2.1 1993	724437		
92625178021	**B-106D**	EPA 300.0 Rev 2.1 1993	724437		
92625178022	**B-82**	EPA 300.0 Rev 2.1 1993	724437		
92625178023	**B-120D**	EPA 300.0 Rev 2.1 1993	724821		
92625178024	**EB-6**	EPA 300.0 Rev 2.1 1993	724821		
92625178025	**B-109D**	EPA 300.0 Rev 2.1 1993	725140		

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 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: GA Power

Project

WO# : 92625178

92625178

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/15/22 COB

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 230 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.8 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): 3.8

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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

Pace Analytical	Document Name: **Bottle Identification Form (BIF)**	Document Issued: November 15, 2021 Page 1 of 1
	Document No.: **F-CAR-CS-043-Rev.01**	Issuing Authority: Pace Carolinas Quality Office

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

Project

WO# : 92625178

PM: NMG **Due Date: 09/27/22**

CLIENT: GA-GA Power

Matrix	Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
	1		2	1			1																							
	2		2	1			1																							
	3		2	1			1																							
	4		2	1			1																							
	5		2	1			1																							
	6																													
	7																													
	8																													
	9																													
	10																													
	11																													
	12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Golder	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McD AP-2, 3/4 Assessment Wells	Pace Project Manager:	Nicole D'Olao
Requested Due Date:	10 Day TAT	Project #:	GL166849822	Pace Profile #:	

Regulatory Agency:

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	
	MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS															N	N	N	N	N	N		
1	B-83	WG	G	9/13/2022	11:43		6	3		3							X	X	X	X	X	X		pH = 5.60, Fe2 = 0.0 mg/L
2	B-97	WG	G	9/13/2022	12:26		6	3		3							X	X	X	X	X	X		pH = 5.54, Fe2 = 0.0 mg/L
3	B-98	WG	G	9/13/2022	11:58		6	3		3							X	X	X	X	X	X		pH = 6.16, Fe2 = 0.0 mg/L
4	B-104D	WG	G	9/13/2022	13:55		6	3		3							X	X	X	X	X	X		pH = 8.49, Fe2 = 2.0 mg/L
6	Dup-4	WG	G	9/13/2022	-		6	3		3							X	X	X	X	X	X		
7	B-77	WG	G	9/13/2022	14:21		6	3		5							X	X	X	X	X	X		pH = 8.34, Fe2 = 7.0 mg/L
8																								
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	JW / Sampler	9-14-22	8:53	834	9/14/22	8:53				
				Chad Harris	9/14/22	0753				

JUDE WAGUESPACK — DATE Signed: 9-14-22

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ M ☐ ☐ ☐

Sample Condition Upon Receipt

WO# : 92625178

PM: NMG **Due Date: 09/27/22**

CLIENT: GA-GA Power

Client Name: Georgia Power **Project**

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/17/22 JM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Cooler Temp: 3.3 **Correction Factor:** Add/Subtract (°C) 0.0 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp Corrected (°C): 3.3

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

CLIENT NOTIFICATION/RESOLUTION Lot ID of split containers:

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

WO#: 92625178

PM: NMG Due Date: 09/27/22

CLIENT: GA-GA Power

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BPIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																		2				
2		2	1			1																		2				
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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 Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com
Address: 2480 Maner Road Atlanta, GA 30339	Copy To: Golder	Company Name:
Email: lmcoker@southernco.com	Purchase Order #:	Address:
Phone: (470) 620-6175 Fax:	Project Name: Plant McD AP-2, 3/4 Assessment Network	Pace Quote:
Requested Due Date: 10 Day TAT	Project #: GL1666-6822	Pace Project Manager: Nicole D'Olao
		Pace Profile #:

Regulatory Agency:

State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO3	Fe Total, Fe 2+	Residual Chlorine (Y/N)	
																	N	N	N	N	N	N		
1	B-63	WG	G	9/14/2022	12:56		6	3		3						X	X	X	X	X	X	X		5178
2	B-107D	WG	G	9/14/2022	10:15		6	3		3						X	X	X	X	X	X	X		pH = 8.31, Fe2 = 1.6 mg/L 009
3	B-111D	WG	G	9/14/2022	15:11		6	3		3						X	X	X	X	X	X	X		pH = 5.87, Fe2 = 0.5 mg/L 010
4	B-115D	WG	G	9/14/2022	15:28		6	3		3						X	X	X	X	X	X	X		pH = 7.09, Fe2 = 1.5 mg/L 011
5	FB-5	WG	G	9/14/2022	12:20		6	3		3						X	X	X	X	X	X	X		pH = 5.76, Fe2 0.5 mg/L 012
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[illegible]	09/15/22	08:20	M. BAH	9-15-22	8:20	
				[signature]	9/15/22	0845	

DIANE FULTON / WSP-GOLDER

DATE Signed: 09/15/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ **Eden** ☐ **Greenwood** ☐ **Huntersville** ☐ **Raleigh** ☐ **Mec** ☐

Sample Condition Upon Receipt

Client Name: Georgia Power **Project #:** [redacted]

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/17/22 JM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.3 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.3

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BPIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1 ✓																			2				
2		2	1			1 ✓																			2				
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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 – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company	Georgia Power - Coal Combustion Residuals	Report To	Lauren Coker	Attention	acsinvoices@southernco.com
Address	2480 Maner Road	Copy To	Golder	Company Name	
	Atlanta GA 30339			Address	
Email	laucoker@southernco.com	Purchase Order #		Pace Quote	
Phone	(470) 620-6176 Fax	Project Name	Plant McD AP-2 3/4 Assessment Well Network	Pace Project Manager	Nicole D'Oleo
Requested Due Date	10 Day TAT	Project #:	GL166849622	Pace Profile #	

Regulatory Agency	State / Location
	GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K,	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS															N	N	N	N	N	N		
1	B-102D	WG	G	9/15/2022	12:00		6	3		3						X	X	X	X	X	X		pH = 5.43, Fe2 = 0.0 mg/L
2	B-108D	WG	G	9/15/2022	14:05		6	3		3						X	X	X	X	X	X		pH = 5.86, Fe2 = 0.5 mg/L
3	FB-6	WQ	G	9/15/2022	14:05		6	3		3						X	X	X	X	X	X		
4																							
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Golder	09/16/22	15:25		9/16	16:30				

DATE Signed:

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #:

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/17/22 JM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.3 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.3

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			2				
2		2	1			1																			2				
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pH Adjustment Log for Preserved Samples

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

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

Qualtrax ID: 69614

Pace Analytical

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 Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road Atlanta, GA 30339	Copy To:	Golder	Company Name:	
Email:	laucoker@southernco.com	Purchase Order #:		Address:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-2 3/4 Assessment Well Network	Pace Quote:	
Requested Due Date:	10 Day TAT	Project #:	GL156849622	Pace Project Manager:	Nicole D'Olso
				Pace Profile #:	

Regulatory Agency	
State / Location	GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N): Y/N	Analyses Test: App. IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K,	CO3+HCO2	Fe Total, Fe 2+	Residual Chlorine (Y/N)	
																	N	N	N	N	N	N		
1	B-56	WG	G	9/16/2022	10:13		6	3		3							X	X	X	X	X	X		pH = 4.56, Fe2 = 0.0 mg/L
2	B-66	WG	G	9/16/2022	10:10		6	3		3							X	X	X	X	X	X		pH = 6.60, Fe2 = 2.5 mg/L
3	B-86	WG	G	9/16/2022	10:44		6	3		3							X	X	X	X	X	X		pH = 5.47, Fe2 = 0.0 mg/L
4	B-10 ID	WG	G	9/16/2022	11:39		6	3		3							X	X	X	X	X	X		pH = 5.92 Fe2 = 0.0 mg/L
5	B-106D	WG	G	9/16/2022	9:16		6	3		3							X	X	X	X	X	X		pH = 5.82, Fe2 = 0.0 mg/L
7	B-82	WG	G	9/16/2022	12:15		6	3		3							X	X	X	X	X	X		pH = 5.02, Fe2 = 0.0 mg/L
8																								
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Mark Moan Golder	09/16/22	05:25		9/16/22	16:30				

DATE Signed:

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO#: 92625178**

PM: NMG **Due Date: 09/27/22**

CLIENT: GA-GA Power

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/20/22 EJH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp: 3.3 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.3

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Projec

WO# : 92625178

PM: NMG Due Date: 09/27/22

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	13PIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U 40 mL Amber Unpreserved vials (N/A)
1		2	1			1 ✓																		2				
2		2	1			1 ✓																		2				
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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 – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Golder	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:	Assessment	Pace Quote:	
Phone:	(470) 820-6176 Fax	Project Name:	Plant McD AP-2, 3/4 Detection Monitoring Well Network	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	10 Day TAT	Project #:	GL166649622	Pace Profile #:	

Regulatory Agency: | State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analytes Test Y/N	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS															Requested Analysis Filtered (Y/N)	N	N	N	N	N	N		5178
1	B-120D	WG	G	9/19/2022	14:55		6	3		3							X	X	X	X	X	X		pH = 5.21, Fe2 = 0.0 mg/L 023
2	EB-6	WQ	G	9/19/2022	16:30		6	3		3							X	X	X	X	X	X		OLM
3																								
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	JN. / Sampler	9-20-22	8:30	M. BAH	9-20-22	8:30				
				ACT	9/20/22	9:20				

JUDE WINGUESPACK DATE Signed: 9-20-22

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #

WO#: 92625178

PM: NMG **Due Date: 09/27/22**

CLIENT: GA-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☑ Yes ☐ No

Date/Initials Person Examining Contents: 9/21/22 KT

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp: 3.6 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.6

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☑ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Qualtrax ID: 69614

WO# : 92625178

PM: NMG Due Date: 09/27/22

CLIENT: GA-GA Power

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

Project #

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1Z	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1 ✓																			2				
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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 – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company	Georgia Power - Coal Combustion Residuals	Report To	Lauren Coker	Attention	scsinvoices@southernco.com
Address	2480 Maner Road	Copy To	Golder	Company Name	
	Atlanta, GA 30339			Address	
Email	laucoker@southernco.com	Purchase Order #:		Pace Quote	
Phone	(470) 620-6176 Fax	Project Name	Plant McD AP-2 3/4 Assessment Well Network	Pace Project Manager	Nicole D'Olac
Requested Due Date	10 Day TAT	Project #	GL166849622	Pace Profile #:	

Regulatory Agency	
State / Location	GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB, C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	
																	App III/IV Total Metals; Cl, F, SO4, TDS; Radium 226/228; Mg, Na, K; CO3+HCO2; Fe Total, Fe 3+		5691 5178
1	B-109C	WG	G	9/20/2022	14:33		6	3		3							X X X X X X		pH = 6.38, Fe2 = 2.5 mg/L
2																			
3																			
4																			
6																			
7																			
8																			
9																			
10																			
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025
025a

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Golder	09/21/22	15:05		9/21/22	1505	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

November 04, 2022

Andrea McClure
WSP/Golder
5170 Peachtree Road
Building 100, Suite 300
Atlanta, GA 30341

RE: Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between September 14, 2022 and September 21, 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

Revision 1: Issued on 11/4/22 to include Radium QC Sheets.

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

Sincerely,

Nicole D'Oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Stephen Benda, Southern Company
Noelia Gangi, Georgia Power
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Karim Minkara, Golder Associates - Atlanta
J. Shelby Mobley, Southern Company
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Michael Smilley, Georgia Power
Yong Cheng Soo, WSP/Golder
Tina Sullivan, ERM

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92625631001	**B-83**	Water	09/13/22 11:43	09/14/22 09:53
92625631002	**B-97**	Water	09/13/22 12:26	09/14/22 09:53
92625631003	**B-98**	Water	09/13/22 11:58	09/14/22 09:53
92625631004	**B-104D**	Water	09/13/22 13:55	09/14/22 09:53
92625631005	**DUP-4**	Water	09/13/22 00:00	09/14/22 09:53
92625631006	**B-77**	Water	09/13/22 14:21	09/14/22 09:53
92625631007	**B-63**	Water	09/14/22 12:56	09/15/22 08:20
92625631008	**B-107D**	Water	09/14/22 10:15	09/15/22 08:20
92625631009	**B-111D**	Water	09/14/22 15:11	09/15/22 08:20
92625631010	**B-115D**	Water	09/14/22 15:26	09/15/22 08:20
92625631011	**FB-5**	Water	09/14/22 12:20	09/15/22 08:20
92625631012	**B-56**	Water	09/16/22 10:13	09/16/22 16:30
92625631013	**B-66**	Water	09/16/22 10:10	09/16/22 16:30
92625631014	**B-88**	Water	09/16/22 10:44	09/16/22 16:30
92625631015	**B-101D**	Water	09/16/22 11:30	09/16/22 16:30
92625631016	**B-106D**	Water	09/16/22 09:16	09/16/22 16:30
92625631017	**B-82**	Water	09/16/22 12:15	09/16/22 16:30
92625631018	**B-102D**	Water	09/15/22 12:00	09/16/22 16:30
92625631019	**B-108D**	Water	09/15/22 14:05	09/16/22 16:30
92625631020	**FB-6**	Water	09/15/22 14:05	09/16/22 16:30
92625631021	**B-120D**	Water	09/19/22 14:55	09/20/22 09:50
92625631022	**EB-6**	Water	09/19/22 15:30	09/20/22 09:50
92625631023	**B-109D**	Water	09/20/22 14:33	09/21/22 15:05

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92625631001	**B-83**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631002	**B-97**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631003	**B-98**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631004	**B-104D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631005	**DUP-4**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631006	**B-77**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631007	**B-63**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631008	**B-107D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631009	**B-111D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631010	**B-115D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631011	**FB-5**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631012	**B-56**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631013	**B-66**	EPA 9315	RMS	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631014	**B-88**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631015	**B-101D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631016	**B-106D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631017	**B-82**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631018	**B-102D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631019	**B-108D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631020	**FB-6**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631021	**B-120D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631022	**EB-6**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625631023	**B-109D**	EPA 9315	RMS	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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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Sample: B-83 **Lab ID: 92625631001** Collected: 09/13/22 11:43 Received: 09/14/22 09:53 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	**0.0339 ± 0.0726 (0.171) C:88% T:NA**	pCi/L	10/12/22 20:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.859 ± 0.460 (0.817) C:61% T:88%**	pCi/L	10/11/22 11:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.893 ± 0.533 (0.988)**	pCi/L	10/14/22 17:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Sample: B-97 **Lab ID: 92625631002** Collected: 09/13/22 12:26 Received: 09/14/22 09:53 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	**0.440 ± 0.188 (0.228) C:92% T:NA**	pCi/L	10/12/22 20:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.670 ± 0.414 (0.775) C:66% T:90%**	pCi/L	10/11/22 11:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.11 ± 0.602 (1.00)**	pCi/L	10/14/22 17:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Sample: B-98 **Lab ID: 92625631003** Collected: 09/13/22 11:58 Received: 09/14/22 09:53 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	**0.599 ± 0.205 (0.169) C:96% T:NA**	pCi/L	10/13/22 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.43 ± 0.540 (0.812) C:67% T:85%**	pCi/L	10/11/22 11:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.03 ± 0.745 (0.981)**	pCi/L	10/14/22 17:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Sample: B-104D **Lab ID: 92625631004** Collected: 09/13/22 13:55 Received: 09/14/22 09:53 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**3.01 ± 0.592 (0.182) C:93% T:NA**	pCi/L	10/13/22 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**6.11 ± 1.34 (0.838) C:62% T:91%**	pCi/L	10/11/22 11:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**9.12 ± 1.93 (1.02)**	pCi/L	10/14/22 17:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Sample: DUP-4 **Lab ID: 92625631005** Collected: 09/13/22 00:00 Received: 09/14/22 09:53 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	**0.130 ± 0.104 (0.174) C:94% T:NA**	pCi/L	10/13/22 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.698 ± 0.412 (0.760) C:70% T:88%**	pCi/L	10/11/22 11:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.828 ± 0.516 (0.934)**	pCi/L	10/14/22 17:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Sample: B-77 **Lab ID: 92625631006** Collected: 09/13/22 14:21 Received: 09/14/22 09:53 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	**0.295 ± 0.152 (0.205) C:94% T:NA**	pCi/L	10/13/22 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.812 ± 0.455 (0.827) C:74% T:83%**	pCi/L	10/11/22 14:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.11 ± 0.607 (1.03)**	pCi/L	10/14/22 17:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Sample: B-63 **Lab ID: 92625631007** Collected: 09/14/22 12:56 Received: 09/15/22 08:20 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	**0.639 ± 0.253 (0.286) C:94% T:NA**	pCi/L	10/13/22 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.966 ± 0.503 (0.872) C:71% T:89%**	pCi/L	10/11/22 14:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.61 ± 0.756 (1.16)**	pCi/L	10/14/22 17:45	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Sample: B-107D **Lab ID: 92625631008** Collected: 09/14/22 10:15 Received: 09/15/22 08:20 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	**0.195 ± 0.120 (0.172) C:96% T:NA**	pCi/L	10/13/22 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.542 ± 0.429 (0.850) C:73% T:81%**	pCi/L	10/11/22 14:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.737 ± 0.549 (1.02)**	pCi/L	10/14/22 17:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Sample: B-111D **Lab ID: 92625631009** Collected: 09/14/22 15:11 Received: 09/15/22 08:20 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	**2.79 ± 0.561 (0.197) C:93% T:NA**	pCi/L	10/13/22 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**3.44 ± 1.04 (1.34) C:72% T:84%**	pCi/L	10/11/22 19:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**6.23 ± 1.60 (1.54)**	pCi/L	10/14/22 17:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Sample: B-115D **Lab ID: 92625631010** Collected: 09/14/22 15:26 Received: 09/15/22 08:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**3.83 ± 0.728 (0.276) C:93% T:NA**	pCi/L	10/13/22 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**9.50 ± 2.03 (1.12) C:72% T:87%**	pCi/L	10/11/22 19:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**13.3 ± 2.76 (1.40)**	pCi/L	10/14/22 17:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Sample: FB-5 **Lab ID: 92625631011** Collected: 09/14/22 12:20 Received: 09/15/22 08:20 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	**-0.0218 ± 0.0489 (0.184) C:93% T:NA**	pCi/L	10/12/22 20:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.13 ± 0.598 (1.06) C:73% T:89%**	pCi/L	10/11/22 19:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.13 ± 0.647 (1.24)**	pCi/L	10/14/22 17:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Sample: B-56 **Lab ID: 92625631012** Collected: 09/16/22 10:13 Received: 09/16/22 16:30 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 ± 0.121 (0.160) C:97% T:NA**	pCi/L	10/07/22 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.525 ± 0.438 (0.882) C:69% T:88%**	pCi/L	10/04/22 15:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.752 ± 0.559 (1.04)**	pCi/L	10/07/22 15:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Sample: B-66 **Lab ID: 92625631013** Collected: 09/16/22 10:10 Received: 09/16/22 16:30 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	**0.120 ± 0.103 (0.188) C:92% T:NA**	pCi/L	10/07/22 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.712 ± 0.403 (0.726) C:80% T:79%**	pCi/L	10/04/22 15:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.832 ± 0.506 (0.914)**	pCi/L	10/07/22 15:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Sample: B-88 **Lab ID: 92625631014** Collected: 09/16/22 10:44 Received: 09/16/22 16:30 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	**0.424 ± 0.171 (0.193) C:96% T:NA**	pCi/L	10/07/22 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.827 ± 0.428 (0.772) C:80% T:93%**	pCi/L	10/04/22 15:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.25 ± 0.599 (0.965)**	pCi/L	10/07/22 15:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Sample: B-101D **Lab ID: 92625631015** Collected: 09/16/22 11:30 Received: 09/16/22 16:30 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	**0.335 ± 0.146 (0.146) C:87% T:NA**	pCi/L	10/07/22 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.30 ± 0.505 (0.782) C:80% T:82%**	pCi/L	10/04/22 15:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.64 ± 0.651 (0.928)**	pCi/L	10/07/22 15:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Sample: B-106D **Lab ID: 92625631016** Collected: 09/16/22 09:16 Received: 09/16/22 16:30 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 ± 0.131 (0.193) C:88% T:NA**	pCi/L	10/07/22 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.428 ± 0.386 (0.786) C:77% T:84%**	pCi/L	10/04/22 15:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.655 ± 0.517 (0.979)**	pCi/L	10/07/22 15:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Sample: B-82 **Lab ID: 92625631017** Collected: 09/16/22 12:15 Received: 09/16/22 16:30 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	**0.146 ± 0.118 (0.216) C:93% T:NA**	pCi/L	10/07/22 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.548 ± 0.401 (0.783) C:75% T:84%**	pCi/L	10/04/22 15:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.694 ± 0.519 (0.999)**	pCi/L	10/07/22 15:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Sample: B-102D **Lab ID: 92625631018** Collected: 09/15/22 12:00 Received: 09/16/22 16:30 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	**0.210 ± 0.131 (0.209) C:92% T:NA**	pCi/L	10/07/22 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.400 ± 0.410 (0.852) C:77% T:86%**	pCi/L	10/04/22 15:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.610 ± 0.541 (1.06)**	pCi/L	10/07/22 15:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Sample: B-108D **Lab ID: 92625631019** Collected: 09/15/22 14:05 Received: 09/16/22 16:30 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	**0.243 ± 0.132 (0.192) C:95% T:NA**	pCi/L	10/07/22 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.12 ± 0.507 (0.857) C:74% T:85%**	pCi/L	10/04/22 15:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.36 ± 0.639 (1.05)**	pCi/L	10/07/22 15:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Sample: FB-6 **Lab ID: 92625631020** Collected: 09/15/22 14:05 Received: 09/16/22 16:30 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	**0.0329 ± 0.0652 (0.151) C:97% T:NA**	pCi/L	10/07/22 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.309 ± 0.408 (0.872) C:73% T:88%**	pCi/L	10/04/22 15:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.342 ± 0.473 (1.02)**	pCi/L	10/07/22 15:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Sample: B-120D **Lab ID: 92625631021** Collected: 09/19/22 14:55 Received: 09/20/22 09:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.706 ± 0.223 (0.206) C:97% T:NA**	pCi/L	10/11/22 09:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.51 ± 0.502 (0.662) C:75% T:89%**	pCi/L	10/04/22 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.22 ± 0.725 (0.868)**	pCi/L	10/11/22 14:52	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Sample: EB-6 **Lab ID: 92625631022** Collected: 09/19/22 15:30 Received: 09/20/22 09:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.00726 ± 0.0709 (0.197) C:96% T:NA**	pCi/L	10/11/22 09:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.310 ± 0.295 (0.602) C:79% T:92%**	pCi/L	10/04/22 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.310 ± 0.366 (0.799)**	pCi/L	10/11/22 14:52	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Sample: B-109D **Lab ID: 92625631023** Collected: 09/20/22 14:33 Received: 09/21/22 15:05 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	**7.66 ± 1.26 (0.163) C:94% T:NA**	pCi/L	10/11/22 09:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**8.81 ± 1.80 (1.00) C:79% T:90%**	pCi/L	10/04/22 12:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**16.5 ± 3.06 (1.16)**	pCi/L	10/11/22 14:52	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

QC Batch: 535740
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92625631021, 92625631022, 92625631023

METHOD BLANK: 2599417
Matrix: Water
Associated Lab Samples: 92625631021, 92625631022, 92625631023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0657 ± 0.105 (0.234) C:98% T:NA	pCi/L	10/11/22 09:17	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

QC Batch: 536956 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92625631001, 92625631002, 92625631003, 92625631004, 92625631005, 92625631006, 92625631007, 92625631008, 92625631009, 92625631010

METHOD BLANK: 2605313 Matrix: Water
Associated Lab Samples: 92625631001, 92625631002, 92625631003, 92625631004, 92625631005, 92625631006, 92625631007, 92625631008, 92625631009, 92625631010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.000824 ± 0.0487 (0.149) C:97% T:NA	pCi/L	10/12/22 20:07	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

QC Batch: 534681 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92625631012, 92625631013, 92625631014, 92625631015, 92625631016, 92625631017, 92625631018, 92625631019, 92625631020

METHOD BLANK: 2594503 Matrix: Water
Associated Lab Samples: 92625631012, 92625631013, 92625631014, 92625631015, 92625631016, 92625631017, 92625631018, 92625631019, 92625631020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0423 ± 0.0706 (0.157) C:95% T:NA	pCi/L	10/07/22 09:37	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

QC Batch: 536957 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92625631001, 92625631002, 92625631003, 92625631004, 92625631005, 92625631006, 92625631007, 92625631008, 92625631009, 92625631010, 92625631011

METHOD BLANK: 2605315 Matrix: Water
Associated Lab Samples: 92625631001, 92625631002, 92625631003, 92625631004, 92625631005, 92625631006, 92625631007, 92625631008, 92625631009, 92625631010, 92625631011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.660 ± 0.393 (0.716) C:65% T:87%	pCi/L	10/11/22 11:38	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

QC Batch: 534679
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92625631012, 92625631013, 92625631014, 92625631015, 92625631016, 92625631017, 92625631018, 92625631019, 92625631020

METHOD BLANK: 2594500 Matrix: Water
Associated Lab Samples: 92625631012, 92625631013, 92625631014, 92625631015, 92625631016, 92625631017, 92625631018, 92625631019, 92625631020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.343 ± 0.266 (0.703) C:75% T:90%	pCi/L	10/04/22 15:45	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

QC Batch:	535739	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92625631021, 92625631022, 92625631023

METHOD BLANK: 2599416 Matrix: Water

Associated Lab Samples: 92625631021, 92625631022, 92625631023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0371 ± 0.270 (0.626) C:74% T:89%	pCi/L	10/04/22 12:22	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

QC Batch: 537265
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92625631011

METHOD BLANK: 2606799
Matrix: Water
Associated Lab Samples: 92625631011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.226 ± 0.138 (0.196) C:96% T:NA	pCi/L	10/12/22 19:59	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

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.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625631001	**B-83**	EPA 9315	536956		
92625631002	**B-97**	EPA 9315	536956		
92625631003	**B-98**	EPA 9315	536956		
92625631004	**B-104D**	EPA 9315	536956		
92625631005	**DUP-4**	EPA 9315	536956		
92625631006	**B-77**	EPA 9315	536956		
92625631007	**B-63**	EPA 9315	536956		
92625631008	**B-107D**	EPA 9315	536956		
92625631009	**B-111D**	EPA 9315	536956		
92625631010	**B-115D**	EPA 9315	536956		
92625631011	**FB-5**	EPA 9315	537265		
92625631012	**B-56**	EPA 9315	534681		
92625631013	**B-66**	EPA 9315	534681		
92625631014	**B-88**	EPA 9315	534681		
92625631015	**B-101D**	EPA 9315	534681		
92625631016	**B-106D**	EPA 9315	534681		
92625631017	**B-82**	EPA 9315	534681		
92625631018	**B-102D**	EPA 9315	534681		
92625631019	**B-108D**	EPA 9315	534681		
92625631020	**FB-6**	EPA 9315	534681		
92625631021	**B-120D**	EPA 9315	535740		
92625631022	**EB-6**	EPA 9315	535740		
92625631023	**B-109D**	EPA 9315	535740		
92625631001	**B-83**	EPA 9320	536957		
92625631002	**B-97**	EPA 9320	536957		
92625631003	**B-98**	EPA 9320	536957		
92625631004	**B-104D**	EPA 9320	536957		
92625631005	**DUP-4**	EPA 9320	536957		
92625631006	**B-77**	EPA 9320	536957		
92625631007	**B-63**	EPA 9320	536957		
92625631008	**B-107D**	EPA 9320	536957		
92625631009	**B-111D**	EPA 9320	536957		
92625631010	**B-115D**	EPA 9320	536957		
92625631011	**FB-5**	EPA 9320	536957		
92625631012	**B-56**	EPA 9320	534679		
92625631013	**B-66**	EPA 9320	534679		
92625631014	**B-88**	EPA 9320	534679		
92625631015	**B-101D**	EPA 9320	534679		
92625631016	**B-106D**	EPA 9320	534679		
92625631017	**B-82**	EPA 9320	534679		
92625631018	**B-102D**	EPA 9320	534679		
92625631019	**B-108D**	EPA 9320	534679		
92625631020	**FB-6**	EPA 9320	534679		
92625631021	**B-120D**	EPA 9320	535739		
92625631022	**EB-6**	EPA 9320	535739		
92625631023	**B-109D**	EPA 9320	535739		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-2-3/4 Assess Rads-Revised Report
Pace Project No.: 92625631

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625631001	**B-83**	Total Radium Calculation	540023		
92625631002	**B-97**	Total Radium Calculation	540023		
92625631003	**B-98**	Total Radium Calculation	540023		
92625631004	**B-104D**	Total Radium Calculation	540023		
92625631005	**DUP-4**	Total Radium Calculation	540023		
92625631006	**B-77**	Total Radium Calculation	540023		
92625631007	**B-63**	Total Radium Calculation	540023		
92625631008	**B-107D**	Total Radium Calculation	540023		
92625631009	**B-111D**	Total Radium Calculation	540023		
92625631010	**B-115D**	Total Radium Calculation	540023		
92625631011	**FB-5**	Total Radium Calculation	540023		
92625631012	**B-56**	Total Radium Calculation	538367		
92625631013	**B-66**	Total Radium Calculation	538367		
92625631014	**B-88**	Total Radium Calculation	538367		
92625631015	**B-101D**	Total Radium Calculation	538367		
92625631016	**B-106D**	Total Radium Calculation	538367		
92625631017	**B-82**	Total Radium Calculation	538367		
92625631018	**B-102D**	Total Radium Calculation	538367		
92625631019	**B-108D**	Total Radium Calculation	538367		
92625631020	**FB-6**	Total Radium Calculation	538367		
92625631021	**B-120D**	Total Radium Calculation	538980		
92625631022	**EB-6**	Total Radium Calculation	538980		
92625631023	**B-109D**	Total Radium Calculation	538980		

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92625631

92625631

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☑ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/14/22 TDH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.2 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.2

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WW				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO# : 92625631

PM: NMG **Due Date: 10/05/22**

CLIENT: GA-GA Power

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

*****Check all unpreserved Nitrates for chlorine**

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1 ✓																		2 ✓				
2		2	1			1 ✓																		2 ✓				
3		2	1			1 ✓																		2 ✓				
4		2	1			1 ✓																		2 ✓				
5		2	1			1 ✓																		2 ✓				
6		2	1			1 ✓																		4 ✓				
7																												
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11																												
12																												

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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 Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com
Address: 2480 Maner Road	Copy To: Golder	Company Name:
Atlanta, GA 30339		Address:
Email: laucoker@southernco.com	Purchase Order #:	Pace Quote:
Phone: (470) 620-6176 Fax	Project Name: Plant McD AP-2, 3/4 Assessment Wells	Pace Project Manager: Nicole D'Oleo
Requested Due Date: 10 Day TAT	Project #: GL166849622	Pace Profile #:

Regulatory Agency

State / Location: GA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App IV/V Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	
																Y/N	N	N	N	N	N	N		
1	B-83	WG	G	9/13/2022	11:43		6	3		3							X	X	X	X	X	X		pH = 5.60, Fe2 = 0.0 mg/L
2	B-97	WG	G	9/13/2022	12:26		6	3		3							X	X	X	X	X	X		pH = 5.54, Fe2 = 0.0 mg/L
3	B-98	WG	G	9/13/2022	11:58		6	3		3							X	X	X	X	X	X		pH = 6.16, Fe2 = 0.0 mg/L
4	B-104D	WG	G	9/13/2022	13:55		6	3		3							X	X	X	X	X	X		pH = 6.49, Fe2 = 2.0 mg/L
6	Dup-4	WG	G	9/13/2022	--		6	3		3							X	X	X	X	X	X		
7	B-77	WG	G	9/13/2022	14:21		6	3		5							X	X	X	X	X	X		pH = 6.34, Fe2 = 7.0 mg/L
8																								
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	JW / Sample	9-14-22	8:53	834	9/14/22	8:53				
				Chad Hoots	9/14/22	0753				

JOE WAGUESPACK DATE Signed: 9-14-22

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 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: GA Power

Project #

WO# : 92625631
PM: NMG Due Date: 10/05/22
CLIENT: GA-GA Power

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/15/22 CDS

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Cooler Temp: 3.8 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.8

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

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: W	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

Pace Analytical	Document Name: **Bottle Identification Form (BIF)**	Document Issued: November 15, 2021 Page 1 of 1
	Document No.: **F-CAR-CS-043-Rev.01**	Issuing Authority: Pace Carolinas Quality Office

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

Project

WO# : 92625631

PM: NMG Due Date: 10/05/22

CLIENT: GA-GA Power

Matrix	Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BPIN	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
	1		2	1			1																							
	2		2	1			1																							
	3		2	1			1																							
	4		2	1			1																							
	5		2	1			1																							
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A — Required Client Information:

Company: Georgia Power - Coal Combustion Residuals
Address: 2480 Maner Road
Atlanta, GA 30339
Email: laucoker@southernco.com
Phone: (470) 620-6878 Fax
Requested Due Date: 10 Day TAT

Section B — Required Project Information:

Report To: Lauren Coker
Copy To: Golder
Purchase Order #:
Project Name: Plant McD AP-2, 3/4 Assessment Network
Project #: GL16684822

Section C — Invoice Information:

Attention: scsinvoices@southernco.com
Company Name:
Address:
Pace Quote:
Pace Project Manager: Nicole O'Dea
Pace Profile #:

Regulatory Agency
State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	
																	App III/IV Total Metals; Cl, F, SO4, TDS; Radium 226/228; Mg, Na, K; CO3+HCO2; Fe Total, Fe 2+		
1	B-83	WG	G	9/14/2022	12:56		6	3		3						N	X X X X X X		pH = 5.31, Fe2 = 1.6 mg/L
2	B-107D	WG	G	9/14/2022	10:15		6	3		3						N	X X X X X X		pH = 5.87, Fe2 = 0.5 mg/L
3	B-111D	WG	G	9/14/2022	15:11		6	3		3						N	X X X X X X		pH = 7.09, Fe2 = 1.5 mg/L
4	B-115D	WG	G	9/14/2022	15:26		6	3		3						N	X X X X X X		pH = 5.76, Fe2 6.5 mg/L
5	FB-5	WG	G	9/14/2022	12:20		6	3		3						N	X X X X X X		
6																			
7																			
8																			
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10																			
11																			
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		09/15/22	08:20	M. BATH	9-15-22	8:20				
					9/15/22	0845				

DIANE FULTON / WSP-GOLDER

DATE Signed: 09/15/22

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #:

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Thermometer: ☐ IR Gun ID: 230

Cooler Temp: 3.3 Correction Factor: Add/Subtract (°C) 0.0

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp Corrected (°C): 3.3

Date/Initials Person Examining Contents: 9/17/22 JM

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

*****Check all unpreserved Nitrates for chlorine**

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			2				
2		2	1			1																			2				
3		2	1			1																			2				
4		2	1			1																			2				
5		2	1			1																			2				
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10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Qualtrax ID: 69614

Pace Analytical

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 Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scainvoices@southernco.com
Address:	2480 Maner Road Atlanta, GA 30339	Copy To:	Golder	Company Name:	
Email:	laucoker@southernco.com	Purchase Order #:		Address:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-2, 3/4 Assessment Well Network	Pace Quote:	
Requested Due Date:	10 Day TAT	Project #:	GL166849822	Pace Project Manager:	Nicole D'Olao
				Pace Profile #:	

Regulatory Agency: —

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test: Y/N	Agg. WW Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS															Requested Analysis Filtered (Y/N)	N	N	N	N	N	N		
1	B-56	WG	G	9/16/2022	10:13		6	3		3							X	X	X	X	X	X		pH = 4.56, Fe2 = 0.0 mg/L
2	B-66	WG	G	9/16/2022	10:10		6	3		3							X	X	X	X	X	X		pH = 6.60, Fe2 = 2.5 mg/L
3	B-66	WG	G	9/16/2022	10:44		6	3		3							X	X	X	X	X	X		pH = 5.47, Fe2 = 0.0 mg/L
4	B-10 ID	WG	G	9/16/2022	11:30		6	3		3							X	X	X	X	X	X		pH = 5.92 Fe2 = 0.0 mg/L
5	B-106D	WG	G	9/16/2022	9:16		6	3		3							X	X	X	X	X	X		pH = 5.82, Fe2 = 0.0 mg/L
6	B-82	WG	G	9/16/2022	12:15		6	3		3							X	X	X	X	X	X		pH = 5.02, Fe2 = 0.0 mg/L
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Mark Moan Golder / Golder	09/16/22	05:25		9/16/22	16:32	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mec... ☐ ... ☑

Sample Condition Upon Receipt

WO# : 92625631

PM: NMG **Due Date: 10/05/22**

CLIENT: GA-GA Power

Client Name: Georgia Power

Project #:

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/17/22 JM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.3 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.3

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

Qualtrax ID: 69614

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

*****Check all unpreserved Nitrates for chlorine**

Projec

WO# : 92625631

PM: NMG **Due Date: 10/05/22**

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BPIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1 ✓																			2				
2		2	1			1 ✓																			2				
3		2	1			1 ✓																			2				
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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 Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company	Georgia Power - Coal Combustion Residuals	Report To	Lauren Coker	Attention	scsinvoices@southernco.com
Address	2480 Maner Road	Copy To	Golder	Company Name	
	Atlanta GA 30339			Address	
Email	laucoker@southernco.com	Purchase Order #		Pace Quote	
Phone	(470) 620-6176 Fax:	Project Name	Plant McD AP-2 3/4 Assessment Well Network	Pace Project Manager	Nicole D'Oleo
Requested Due Date	10 Day TAT	Project #	GL166849622	Pace Profile #	

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Y/N	Analyses Test: App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS															N	N	N	N	N	N		
1	B-102D	WG	G	9/15/2022	12:00		6	3		3						X	X	X	X	X	X		pH = 5.43, Fe2 = 0.0 mg/L
2	B-108D	WG	G	9/15/2022	14:05		6	3		3						X	X	X	X	X	X		pH = 5.86, Fe2 = 0.5 mg/L
3	FB-6	WQ	G	9/15/2022	14:05		6	3		3						X	X	X	X	X	X		
4																							
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Golder	09/16/22	05:25		9/16	16:30	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #

WO#: 92625631

PM: NMG **Due Date: 10/05/22**

CLIENT: GA-GA Power

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/20/22 EJH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.3 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.3

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Qualtrax ID: 69614

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Project # **WO# : 92625631**

PM: NMG Due Date: 10/05/22

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9 3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U 40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			2				
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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 Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scainvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Golder	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:	Assessment	Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McD AP-2 3/4 Detection Monitoring Well Network	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	10 Day TAT	Project #:	GL165849622	Pace Profile #:	

Regulatory Agency: | State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analytes Test Y/N	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	
	MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS															Y/N	N	N	N	N	N	N	
1	B-120D	WG	G	9/19/2022	14:55		6	3		3							X	X	X	X	X	X		pH = 5.21, Fe2 = 0.0 mg/L
2	EB-6	WQ	G	9/19/2022	15:30		6	3		3							X	X	X	X	X	X		
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	JN. / Sampler	9-20-22	8:30	M. BAH	9-20-22	8:30				
				ACT	9/20/22	9:20				

JUDE WINGUESPACK DATE Signed: 9-20-22

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mecl ☐

WO# : 92625631

PM: NMG Due Date: 10/05/22

CLIENT: GA-GA Power

Sample Condition Upon Receipt

Client Name: Georgia Power **Project #:**

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☑ Yes ☐ No

Date/Initials Person Examining Contents: 9/21/22 KT

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp: 3.6 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.6

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☑ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

Qualtrax ID: 69614

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92625631

PM: NMG Due Date: 10/05/22

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1Z	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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
Required Client Information:

Company	Georgia Power - Coal Combustion Residuals
Address	2480 Maner Road
	Atlanta, GA 30339
Email:	laucoker@southernco.com
Phone	(470) 620-6176
Fax	
Requested Due Date:	10 Day TAT

Section B
Required Project Information:

Report To	Lauren Coker
Copy To	Golder
Purchase Order #:	
Project Name	Plant McD AP-2 3/4 Assessment Well Network
Project #	GL166849622

Section C
Invoice Information:

Attention	scsinvoices@southernco.com
Company Name	
Address	
Pace Quote	
Pace Project Manager	Nicole D'Oleo
Pace Profile #:	

Regulatory Agency	
State / Location	GA

SAMPLE ID — One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Total Metals (N)	Cl, F, SO4, TDS (N)	Radium 226/228 (N)	Mg, Na, K (N)	CO3+HCO3 (N)	Fe Total Fe 3+ (N)	Residual Chlorine (Y/N)	5631 5178
1	B-109D	WG	G	9/20/2022	14:33		6	3		3							X	X	X	X	X	X		pH = 6.38, Fe2 = 2.5 mg/L
2																								
3																								
4																								
6																								
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature] Golder	09/21/22	15:05	[signature]	9/21/22	1505	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	RMS
Date:	9/26/2022
Worklist:	68985
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2594503
MB concentration:	0.042
M/B Counting Uncertainty:	0.070
MB MDC:	0.157
MB Numerical Performance Indicator:	1.18
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS68985	LCSD68985
Count Date:	10/7/2022	10/7/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.505	0.501
Target Conc. (pCi/L, g, F):	4.756	4.792
Uncertainty (Calculated):	0.057	0.058
Result (pCi/L, g, F):	5.097	4.847
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.493	0.496
Numerical Performance Indicator:	1.35	0.22
Percent Recovery:	107.17%	101.15%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS68985	2594503
Duplicate Sample I.D.	LCSD68985	92625631020
Sample Result (pCi/L, g, F):	5.097	0.042
Sample Result Counting Uncertainty (pCi/L, g, F):	0.493	0.070
Sample Duplicate Result (pCi/L, g, F):	4.847	0.033
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.496	0.065
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.702	0.192
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.78%	25.02%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

***~~Batch must be re-prepped due to unacceptable precision.~~ N/A

VAM 10/7/22

VAM 10/7/22

Quality Control Sample Performance Assessment

Pace Analytical
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Test:	Ra-226
Analyst:	RMS
Date:	9/29/2022
Worklist:	69056
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2599417
MB concentration:	0.066
M/B Counting Uncertainty:	0.104
MB MDC:	0.234
MB Numerical Performance Indicator:	1.23
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS69056	LCSD69056
Count Date:	10/11/2022	10/11/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.503
Target Conc. (pCi/L, g, F):	4.772	4.776
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.561	5.048
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.462	0.491
Numerical Performance Indicator:	-0.89	1.08
Percent Recovery:	95.59%	105.68%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment	
Sample I.D.:	LCS69056
Duplicate Sample I.D.	LCSD69056
Sample Result (pCi/L, g, F):	4.561
Sample Result Counting Uncertainty (pCi/L, g, F):	0.462
Sample Duplicate Result (pCi/L, g, F):	5.048
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.491
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-1.414
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	10.03%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

LAM 10/11/22

Quality Control Sample Performance Assessment

Pace Analytical
www.paceinc.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: RMS
Date: 10/5/2022
Worklist: 69144
Matrix: DW

Method Blank Assessment	
MB Sample ID	2605313
MB concentration:	-0.001
M/B Counting Uncertainty:	0.049
MB MDC:	0.149
MB Numerical Performance Indicator:	-0.03
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS69144	LCSD69144
Count Date:	10/13/2022	10/13/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.504
Target Conc. (pCi/L, g, F):	4.746	4.770
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.962	5.296
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.512	0.551
Numerical Performance Indicator:	0.82	1.86
Percent Recovery:	104.55%	111.03%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS69144	2605313
Duplicate Sample I.D.	LCSD69144	92625212004
Sample Result (pCi/L, g, F):	4.962	-0.001
Sample Result Counting Uncertainty (pCi/L, g, F):	0.512	0.049
Sample Duplicate Result (pCi/L, g, F):	5.296	0.005
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.551	0.072
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.870	-0.127
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	6.01%	282.60%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*** ~~Batch must be re-prepped due to unacceptable precision.~~ N/A

UAM 10/13/22
UAM 10/13/22

UAM 10/13/22

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	9/26/2022
Worklist:	68983
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2594500
MB concentration:	-0.343
M/B 2 Sigma CSU:	0.266
MB MDC:	0.703
MB Numerical Performance Indicator:	-2.52
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS68983	LCSD68983
Count Date:	10/4/2022	10/4/2022
Spike I.D.:	22-029	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.873	19.873
Volume Used (mL):	0.20	0.20
Aliquot Volume (L, g, F):	0.802	0.810
Target Conc. (pCi/L, g, F):	4.956	4.909
Uncertainty (Calculated):	0.357	0.353
Result (pCi/L, g, F):	3.835	3.327
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.896	0.797
Numerical Performance Indicator:	-2.28	-3.56
Percent Recovery:	77.37%	67.77%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS68983	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD68983	
Sample Result (pCi/L, g, F):	3.835	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.896	
Sample Duplicate Result (pCi/L, g, F):	3.327	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.797	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.830	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	13.22%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Quality Control Sample Performance Assessment

Pace Analytical
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Test:	Ra-228
Analyst:	VAL
Date:	9/28/2022
Worklist:	69055
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2599416
MB concentration:	0.037
MB 2 Sigma CSU:	0.270
MB MDC:	0.626
MB Numerical Performance Indicator:	0.27
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS69055	LCSD69055
Count Date:	10/4/2022	10/4/2022
Spike I.D.:	22-029	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.874	19.874
Volume Used (mL):	0.20	0.20
Aliquot Volume (L, g, F):	0.806	0.805
Target Conc. (pCi/L, g, F):	4.933	4.940
Uncertainty (Calculated):	0.355	0.356
Result (pCi/L, g, F):	4.189	4.442
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.917	0.977
Numerical Performance Indicator:	-1.48	-0.94
Percent Recovery:	84.92%	89.91%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS69055	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD69055	
Sample Result (pCi/L, g, F):	4.189	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.917	
Sample Duplicate Result (pCi/L, g, F):	4.442	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.977	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.370	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.70%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	RMS
Date:	10/7/2022
Worklist:	69179
Matrix:	DW

Method Blank Assessment	
MB Sample ID	2606799
MB concentration:	0.226
M/B Counting Uncertainty:	0.134
MB MDC:	0.196
MB Numerical Performance Indicator:	3.29
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS69179	**LCSD69179**
Count Date:	10/12/2022	10/12/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.503
Target Conc. (pCi/L, g, F):	4.771	4.773
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.303	5.044
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.532	0.573
Numerical Performance Indicator:	-1.72	0.92
Percent Recovery:	90.18%	105.67%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS69179	
Duplicate Sample I.D.	LCSD69179	
Sample Result (pCi/L, g, F):	4.303	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.532	
Sample Duplicate Result (pCi/L, g, F):	5.044	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.573	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.857	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	15.81%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*The method blank result is below the reporting limit for this analysis and is acceptable.

Quality Control Sample Performance Assessment

Pace Analytical
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Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	10/5/2022
Worklist:	69145
Matrix:	WT

Method Blank Assessment	
MB Sample ID	2605315
MB concentration:	0.660
M/B 2 Sigma CSU:	0.393
MB MDC:	0.716
MB Numerical Performance Indicator:	3.29
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS69145	LCSD69145
Count Date:	10/11/2022	10/11/2022
Spike I.D.:	22-029	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.827	19.827
Volume Used (mL):	0.20	0.20
Aliquot Volume (L, g, F):	0.807	0.806
Target Conc. (pCi/L, g, F):	4.914	4.922
Uncertainty (Calculated):	0.354	0.354
Result (pCi/L, g, F):	4.634	4.396
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.047	0.980
Numerical Performance Indicator:	-0.50	-0.99
Percent Recovery:	94.32%	89.31%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS69145	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD69145	
Sample Result (pCi/L, g, F):	4.634	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.047	
Sample Duplicate Result (pCi/L, g, F):	4.396	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.980	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.326	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.45%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
~~*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable, otherwise this batch must be re-prepped.~~ MB activity < MDC, Pass
[illegible] 10/12/22

<1.0

[illegible] 10/12/22

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

October 04, 2022

Andrea McClure
WSP/Golder
5170 Peachtree Road
Building 100, Suite 300
Atlanta, GA 30341

RE: Project: McDonough AP-2-3/4 Assess Piez
Pace Project No.: 92628215

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory on September 13, 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

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

Sincerely,

Nicole D'Oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Stephen Benda, Southern Company
Noelia Gangi, Georgia Power
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Karim Minkara, Golder Associates - Atlanta
J. Shelby Mobley, Southern Company
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Michael Smilley, Georgia Power
Yong Cheng Soo, WSP/Golder
Tina Sullivan, ERM

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: McDonough AP-2-3/4 Assess Piez
Pace Project No.: 92628215

Pace Analytical Services Charlotte
South Carolina Laboratory ID: 99006
9800 Kincey 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

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SAMPLE SUMMARY

Project: McDonough AP-2-3/4 Assess Piez
Pace Project No.: 92628215

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92625178001	**B-92**	Water	09/12/22 11:45	09/13/22 10:36
92625178002	**B-93**	Water	09/12/22 13:05	09/13/22 10:36

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SAMPLE ANALYTE COUNT

Project: McDonough AP-2-3/4 Assess Piez
Pace Project No.: 92628215

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92625178001	**B-92**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625178002	**B-93**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	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

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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assess Piez
Pace Project No.: 92628215

Sample: B-92 **Lab ID: 92625178001** Collected: 09/12/22 11:45 Received: 09/13/22 10:36 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		09/13/22 13:44		
pH	**4.56**	Std. Units			1		09/13/22 13:44		
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	09/27/22 11:19	09/27/22 14:46	7439-89-6	
Potassium	**5.7**	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 14:46	7440-09-7	
Sodium	**18.4**	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 14:46	7440-23-5	
Calcium	**104**	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 14:46	7440-70-2	M1
Magnesium	**17.4**	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 14:46	7439-95-4	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 18:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 18:33	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 18:33	7440-39-3	
Beryllium	**0.017**	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 18:33	7440-41-7	
Boron	**2.9**	mg/L	0.40	0.086	10	09/26/22 13:33	09/28/22 14:53	7440-42-8	
Cadmium	**0.0014**	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 18:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 18:33	7440-47-3	
Cobalt	**0.073**	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 18:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/26/22 13:33	09/27/22 18:33	7439-92-1	
Lithium	**0.015J**	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 18:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 18:33	7439-98-7	
Selenium	**0.012**	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 18:33	7782-49-2	
Thallium	**0.00020J**	mg/L	0.0010	0.00018	1	09/26/22 13:33	09/27/22 18:33	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	0.00013	1	10/03/22 11:30	10/03/22 13:38	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**696**	mg/L	50.0	20.0	1		09/14/22 11:37		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/22 18:16		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/22 18:16		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/14/22 18:16		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.2**	mg/L	1.0	0.60	1		09/15/22 18:56	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assess Piez
Pace Project No.: 92628215

Sample: B-92 **Lab ID: 92625178001** Collected: 09/12/22 11:45 Received: 09/13/22 10:36 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								
Fluoride	**0.24**	mg/L	0.10	0.050	1		09/15/22 18:56	16984-48-8	
Sulfate	**394**	mg/L	8.0	4.0	8		09/16/22 04:11	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assess Piez
Pace Project No.: 92628215

Sample: B-93 **Lab ID: 92625178002** Collected: 09/12/22 13:05 Received: 09/13/22 10:36 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		09/13/22 13:44		
pH	**4.70**	Std. Units			1		09/13/22 13:44		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/27/22 11:19	09/27/22 15:06	7439-89-6	
Potassium	**6.5**	mg/L	0.20	0.15	1	09/27/22 11:19	09/27/22 15:06	7440-09-7	
Sodium	**24.5**	mg/L	1.0	0.58	1	09/27/22 11:19	09/27/22 15:06	7440-23-5	
Calcium	**133**	mg/L	1.0	0.12	1	09/27/22 11:19	09/27/22 15:06	7440-70-2	
Magnesium	**22.4**	mg/L	0.050	0.012	1	09/27/22 11:19	09/27/22 15:06	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00096J**	mg/L	0.0030	0.00078	1	09/26/22 13:33	09/27/22 18:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 13:33	09/27/22 18:57	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00067	1	09/26/22 13:33	09/27/22 18:57	7440-39-3	
Beryllium	**0.017**	mg/L	0.00050	0.000054	1	09/26/22 13:33	09/27/22 18:57	7440-41-7	
Boron	**3.6**	mg/L	0.20	0.043	5	09/26/22 13:33	09/28/22 14:59	7440-42-8	
Cadmium	**0.00084**	mg/L	0.00050	0.00011	1	09/26/22 13:33	09/27/22 18:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/26/22 13:33	09/27/22 18:57	7440-47-3	
Cobalt	**0.057**	mg/L	0.0050	0.00039	1	09/26/22 13:33	09/27/22 18:57	7440-48-4	
Lead	ND	mg/L	0.0050	0.0044	5	09/26/22 13:33	09/28/22 14:59	7439-92-1	D3
Lithium	**0.013J**	mg/L	0.030	0.00073	1	09/26/22 13:33	09/27/22 18:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/26/22 13:33	09/27/22 18:57	7439-98-7	
Selenium	**0.013**	mg/L	0.0050	0.0014	1	09/26/22 13:33	09/27/22 18:57	7782-49-2	
Thallium	ND	mg/L	0.0050	0.00090	5	09/26/22 13:33	09/28/22 14:59	7440-28-0	D3
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00016J**	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 13:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**884**	mg/L	50.0	20.0	1		09/14/22 11:37		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/16/22 16:54		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/16/22 16:54		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/16/22 16:54		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**15.0**	mg/L	1.0	0.60	1		09/15/22 19:11	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-2-3/4 Assess Piez
Pace Project No.: 92628215

Sample: B-93 **Lab ID: 92625178002** Collected: 09/12/22 13:05 Received: 09/13/22 10:36 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								
Fluoride	**0.40**	mg/L	0.10	0.050	1		09/15/22 19:11	16984-48-8	M1
Sulfate	**508**	mg/L	11.0	5.5	11		09/16/22 04:26	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assess Piez
Pace Project No.: 92628215

QC Batch: 726040
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625178001, 92625178002

METHOD BLANK: 3781867 Matrix: Water
Associated Lab Samples: 92625178001, 92625178002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/27/22 14:37	
Iron	mg/L	ND	0.040	0.025	09/27/22 14:37	
Magnesium	mg/L	ND	0.050	0.012	09/27/22 14:37	
Potassium	mg/L	ND	0.20	0.15	09/27/22 14:37	
Sodium	mg/L	ND	1.0	0.58	09/27/22 14:37	

LABORATORY CONTROL SAMPLE: 3781868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Iron	mg/L	1	1.1	106	80-120	
Magnesium	mg/L	1	1.1	107	80-120	
Potassium	mg/L	1	1.1	109	80-120	
Sodium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3781869 3781870

Parameter	Units	92625178001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	104	1	1	105	103	64	-98	75-125	2	20	M1
Iron	mg/L	0.036J	1	1	1.0	0.96	97	93	75-125	4	20	
Magnesium	mg/L	17.4	1	1	18.3	17.8	95	44	75-125	3	20	M1
Potassium	mg/L	5.7	1	1	6.7	6.7	96	94	75-125	0	20	
Sodium	mg/L	18.4	1	1	19.4	19.1	97	76	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assess Piez
Pace Project No.: 92628215

QC Batch: 725788
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625178001, 92625178002

METHOD BLANK: 3780835 Matrix: Water
Associated Lab Samples: 92625178001, 92625178002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/27/22 18:21	
Arsenic	mg/L	ND	0.0050	0.0022	09/27/22 18:21	
Barium	mg/L	ND	0.0050	0.00067	09/27/22 18:21	
Beryllium	mg/L	ND	0.00050	0.000054	09/27/22 18:21	
Boron	mg/L	ND	0.040	0.0086	09/27/22 18:21	
Cadmium	mg/L	ND	0.00050	0.00011	09/27/22 18:21	
Chromium	mg/L	ND	0.0050	0.0011	09/27/22 18:21	
Cobalt	mg/L	ND	0.0050	0.00039	09/27/22 18:21	
Lead	mg/L	ND	0.0010	0.00089	09/27/22 18:21	
Lithium	mg/L	ND	0.030	0.00073	09/27/22 18:21	
Molybdenum	mg/L	ND	0.010	0.00074	09/27/22 18:21	
Selenium	mg/L	ND	0.0050	0.0014	09/27/22 18:21	
Thallium	mg/L	ND	0.0010	0.00018	09/27/22 18:21	

LABORATORY CONTROL SAMPLE: 3780836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.11	108	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3780837 3780838

Parameter	Units	92625178001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	104	106	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	99	98	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assess Piez
Pace Project No.: 92628215

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3780837 3780838

Parameter	Units	92625178001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.017	0.1	0.1	0.11	0.11	94	95	75-125	0	20	
Beryllium	mg/L	0.017	0.1	0.1	0.11	0.11	94	92	75-125	2	20	
Boron	mg/L	2.9	1	1	3.7	3.7	80	81	75-125	0	20	
Cadmium	mg/L	0.0014	0.1	0.1	0.10	0.098	98	97	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.092	0.093	91	92	75-125	1	20	
Cobalt	mg/L	0.073	0.1	0.1	0.16	0.16	91	91	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.087	0.087	87	87	75-125	0	20	
Lithium	mg/L	0.015J	0.1	0.1	0.12	0.12	102	102	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	99	75-125	2	20	
Selenium	mg/L	0.012	0.1	0.1	0.11	0.11	96	96	75-125	0	20	
Thallium	mg/L	0.00020J	0.1	0.1	0.088	0.088	88	88	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assess Piez
Pace Project No.: 92628215

QC Batch: 727398
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625178001, 92625178002

METHOD BLANK: 3787972 Matrix: Water
Associated Lab Samples: 92625178001, 92625178002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	10/03/22 13:17	

LABORATORY CONTROL SAMPLE: 3787973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3787974 3787975

Parameter	Units	92625178002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.00016J	0.0025	0.0025	0.0022	0.0022	82	81	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assess Piez
Pace Project No.: 92628215

QC Batch: 722886
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625178001, 92625178002

METHOD BLANK: 3766455 Matrix: Water
Associated Lab Samples: 92625178001, 92625178002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/14/22 11:30	

LABORATORY CONTROL SAMPLE: 3766456

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3766458

Parameter	Units	92624840004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	620000 ug/L	680	9	10	

SAMPLE DUPLICATE: 3767354

Parameter	Units	92624372007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	252	297	16	10	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assess Piez
Pace Project No.: 92628215

QC Batch: 723206
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625178001

METHOD BLANK: 3768028 Matrix: Water
Associated Lab Samples: 92625178001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/14/22 14:56	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/22 14:56	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/22 14:56	

LABORATORY CONTROL SAMPLE: 3768029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.2	100	80-120	

LABORATORY CONTROL SAMPLE: 3768030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.8	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3768031 3768032

Parameter	Units	92625359004 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	324	50	50	353	349	58	51	80-120	1	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3768033 3768034

Parameter	Units	92624372011 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	134	50	50	193	185	118	102	80-120	4	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assess Piez
Pace Project No.: 92628215

QC Batch: 723613
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625178002

METHOD BLANK: 3770309 Matrix: Water
Associated Lab Samples: 92625178002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/16/22 13:22	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/16/22 13:22	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/16/22 13:22	

LABORATORY CONTROL SAMPLE: 3770310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.1	104	80-120	

LABORATORY CONTROL SAMPLE: 3770311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.6	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3770314 3770315

Parameter	Units	92625683004 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	190	50	50	247	262	114	144	80-120	6	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3771994 3771995

Parameter	Units	92625683003 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	54.9	54.9	104	103	80-120	0	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-2-3/4 Assess Piez
Pace Project No.: 92628215

QC Batch: 723467
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625178001, 92625178002

METHOD BLANK: 3769521 Matrix: Water
Associated Lab Samples: 92625178001, 92625178002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/15/22 15:11	
Fluoride	mg/L	ND	0.10	0.050	09/15/22 15:11	
Sulfate	mg/L	ND	1.0	0.50	09/15/22 15:11	

LABORATORY CONTROL SAMPLE: 3769522

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.0	98	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	49.3	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3769523 3769524

Parameter	Units	92625147002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	94.2	50	50	133	134	77	79	90-110	1	10	M1
Fluoride	mg/L	0.49	2.5	2.5	3.0	3.0	101	102	90-110	1	10	
Sulfate	mg/L	53.6	50	50	99.3	100	91	93	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3769525 3769526

Parameter	Units	92625178002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	15.0	50	50	66.7	67.1	103	104	90-110	1	10	
Fluoride	mg/L	0.40	2.5	2.5	3.6	3.6	127	128	90-110	1	10	M1
Sulfate	mg/L	508	50	50	552	552	88	89	90-110	0	10	M1

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: McDonough AP-2-3/4 Assess Piez
Pace Project No.: 92628215

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.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-2-3/4 Assess Piez
Pace Project No.: 92628215

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625178001	**B-92**				
92625178002	**B-93**				
92625178001	**B-92**	EPA 3010A	726040	EPA 6010D	726131
92625178002	**B-93**	EPA 3010A	726040	EPA 6010D	726131
92625178001	**B-92**	EPA 3005A	725788	EPA 6020B	725909
92625178002	**B-93**	EPA 3005A	725788	EPA 6020B	725909
92625178001	**B-92**	EPA 7470A	727398	EPA 7470A	727474
92625178002	**B-93**	EPA 7470A	727398	EPA 7470A	727474
92625178001	**B-92**	SM 2540C-2015	722886		
92625178002	**B-93**	SM 2540C-2015	722886		
92625178001	**B-92**	SM 2320B-2011	723206		
92625178002	**B-93**	SM 2320B-2011	723613		
92625178001	**B-92**	EPA 300.0 Rev 2.1 1993	723467		
92625178002	**B-93**	EPA 300.0 Rev 2.1 1993	723467		

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #

WO# : 92628215

92628215

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: 09/13/22 JM

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.9 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 1.9

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4. 10 DAY TAT
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO#: 92628215

PM: NMG **Due Date: 09/27/22**

CLIENT: GA-GA Power

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project

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

*****Check all unpreserved Nitrates for chlorine**

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			2				
2		2	1			1																			2				
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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 Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Golder	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McDonough AP-2-3/4 Assessment Piezometers	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	10 Day TAT	Project #:	GL188649822	Pace Profile #:	

Regulatory Agency: | State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																		
1	B-92	WG	G	9/12/2022	11:45		6	3		3							N	N	pH = 4.56, Fe2 = 0.0 mg/L
2	B-93	WG	G	9/12/2022	13:05		6	3		3							N	N	pH = 4.70, Fe2 = 0.0 mg/L
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[illegible] / Jude	9/13/22	8:05	[illegible] BAH	9/13/22	8:10				
				[illegible]	9/13/22	1036				

Jude Waguespack — DATE Signed: 9/13/22

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

November 04, 2022

Andrea McClure
WSP/Golder
5170 Peachtree Road
Building 100, Suite 300
Atlanta, GA 30341

RE: Project: McDonough AP-2, 3/4 Piezo Rads-Revised Report
Pace Project No.: 92625219

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory on September 13, 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

Revision 1: Issued on 11/4/22 to include Radium QC Sheets.

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

Sincerely,

Nicole D'Oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Stephen Benda, Southern Company
Noelia Gangi, Georgia Power
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Karim Minkara, Golder Associates - Atlanta
J. Shelby Mobley, Southern Company
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Michael Smilley, Georgia Power
Yong Cheng Soo, WSP/Golder
Tina Sullivan, ERM

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: McDonough AP-2, 3/4 Piezo Rads-Revised Report
Pace Project No.: 92625219

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: McDonough AP-2, 3/4 Piezo Rads-Revised Report
Pace Project No.: 92625219

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92625219001	**B-92**	Water	09/12/22 11:45	09/13/22 10:30
92625219002	**B-93**	Water	09/12/22 13:05	09/13/22 10:30

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: McDonough AP-2, 3/4 Piezo Rads-Revised Report
Pace Project No.: 92625219

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92625219001	**B-92**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625219002	**B-93**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2, 3/4 Piezo Rads-Revised Report
Pace Project No.: 92625219

Sample: B-92 **Lab ID: 92625219001** Collected: 09/12/22 11:45 Received: 09/13/22 10:30 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	**0.454 ± 0.168 (0.148) C:96% T:NA**	pCi/L	10/12/22 20:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.89 ± 0.638 (0.881) C:73% T:80%**	pCi/L	10/10/22 15:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.34 ± 0.806 (1.03)**	pCi/L	10/14/22 17:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-2, 3/4 Piezo Rads-Revised Report
Pace Project No.: 92625219

Sample: B-93 **Lab ID: 92625219002** Collected: 09/12/22 13:05 Received: 09/13/22 10:30 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 ± 0.124 (0.123) C:97% T:NA**	pCi/L	10/12/22 20:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.824 ± 0.412 (0.702) C:74% T:84%**	pCi/L	10/10/22 15:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.09 ± 0.536 (0.825)**	pCi/L	10/14/22 17:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2, 3/4 Piezo Rads-Revised Report
Pace Project No.: 92625219

QC Batch: 535922
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92625219001, 92625219002

METHOD BLANK: 2600355
Matrix: Water
Associated Lab Samples: 92625219001, 92625219002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0438 ± 0.0695 (0.152) C:94% T:NA	pCi/L	10/12/22 20:23	

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-2, 3/4 Piezo Rads-Revised Report
Pace Project No.: 92625219

QC Batch: 535924
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92625219001, 92625219002

METHOD BLANK: 2600360 Matrix: Water
Associated Lab Samples: 92625219001, 92625219002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.590 ± 0.382 (0.710) C:71% T:92%	pCi/L	10/10/22 13:30	

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: McDonough AP-2, 3/4 Piezo Rads-Revised Report
Pace Project No.: 92625219

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.

Pace Analytical Services, LLC
110 Technology Parkway
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-2, 3/4 Piezo Rads-Revised Report
Pace Project No.: 92625219

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625219001	**B-92**	EPA 9315	535922		
92625219002	**B-93**	EPA 9315	535922		
92625219001	**B-92**	EPA 9320	535924		
92625219002	**B-93**	EPA 9320	535924		
92625219001	**B-92**	Total Radium Calculation	540022		
92625219002	**B-93**	Total Radium Calculation	540022		

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #

WO# : 92625219

92625219

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 09/13/22 JM

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer:
☐ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.9 **Correction Factor:** Add/Subtract (°C) 0.0

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

Cooler Temp Corrected (°C): 1.9

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4. 10 DAY TAT
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO# : 92625219

PM: NMG **Due Date: 10/04/22**

CLIENT: GA-GA Power

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project

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

*****Check all unpreserved Nitrates for chlorine**

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BPIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			2				
2		2	1			1																			2				
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

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 Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Golder	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McDonough AP-2-3/4 Assessment Piezometers	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	10 Day TAT	Project #:	GL186849622	Pace Profile #:	

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+							Residual Chlorine (Y/N)	
																Y/N	N	N	N	N	N	N							
1	B-92	WG	G	9/12/2022	11:45		6	3		3							X	X	X	X	X	X							pH = 4.56, Fe2 = 0.0 mg/L
2	B-93	WG	G	9/12/2022	13:05		6	3		3							X	X	X	X	X	X							pH = 4.70, Fe2 = 0.0 mg/L
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												
13																												
14																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[illegible]	9/13/22	8:05	[illegible] BAH	9/13/22	8:10	
					9/13/22	1036	

JUDE WAGUESPACK DATE Signed: 9/13/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	RMS
Date:	9/30/2022
Worklist:	69072
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2600355
MB concentration:	0.044
M/B Counting Uncertainty:	0.069
MB MDC:	0.152
MB Numerical Performance Indicator:	1.24
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS69072	LCSD69072
Count Date:	10/12/2022	10/12/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.505	0.511
Target Conc. (pCi/L, g, F):	4.758	4.704
Uncertainty (Calculated):	0.057	0.056
Result (pCi/L, g, F):	5.119	4.712
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.487	0.471
Numerical Performance Indicator:	1.44	0.03
Percent Recovery:	107.59%	100.17%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS69072	2600355
Duplicate Sample I.D.	LCSD69072	92624384013
Sample Result (pCi/L, g, F):	5.119	0.044
Sample Result Counting Uncertainty (pCi/L, g, F):	0.487	0.069
Sample Duplicate Result (pCi/L, g, F):	4.712	0.020
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.471	0.055
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	1.179	0.520
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.14%	73.02%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~***Batch must be re-prepped due to unacceptable precision.~~ N/A

LAM 10/13/22

LAM 10/13/22

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	9/30/2022
Worklist:	69073
Matrix:	WT

Method Blank Assessment	
MB Sample ID	2600360
MB concentration:	0.590
M/B 2 Sigma CSU:	0.382
MB MDC:	0.710
MB Numerical Performance Indicator:	3.02
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS69073	LCSD69073
Count Date:	10/10/2022	10/10/2022
Spike I.D.:	22-029	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.834	19.834
Volume Used (mL):	0.20	0.20
Aliquot Volume (L, g, F):	0.808	0.810
Target Conc. (pCi/L, g, F):	4.907	4.895
Uncertainty (Calculated):	0.353	0.352
Result (pCi/L, g, F):	6.528	6.766
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.382	1.419
Numerical Performance Indicator:	2.23	2.51
Percent Recovery:	133.05%	138.22%
Status vs Numerical Indicator:	N/A	Warning
Status vs Recovery:	Pass	Fail High**
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS69073	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD69073	
Sample Result (pCi/L, g, F):	6.528	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.382	
Sample Duplicate Result (pCi/L, g, F):	6.766	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.419	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.235	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.81%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
~~*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.~~
~~**If all sample results are below MDC, the batch is acceptable, otherwise this batch must be reprepped due to LCSD failure.~~

10/11/22

MB activity < MDC, Pass

NI < 3 acceptable for LCS/LCSD

10/11/22

10/11/22

JW 10.11.22

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

November 10, 2022

Andrea McClure
WSP/Golder
5170 Peachtree Road
Building 100, Suite 300
Atlanta, GA 30341

RE: Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between September 13, 2022 and September 21, 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

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

Sincerely,

Nicole D'Oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Stephen Benda, Southern Company
Noelia Gangi, Georgia Power
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Karim Minkara, Golder Associates - Atlanta
J. Shelby Mobley, Southern Company
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Michael Smilley, Georgia Power
Yong Cheng Soo, WSP/Golder
Tina Sullivan, ERM

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

Pace Analytical Services Charlotte
South Carolina Laboratory ID: 99006
9800 Kincey 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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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SAMPLE SUMMARY

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92625189001	**B-90**	Water	09/12/22 12:15	09/13/22 10:30
92625189002	**B-91**	Water	09/12/22 13:26	09/13/22 10:30
92625189003	**B-95**	Water	09/12/22 14:38	09/13/22 10:30
92625189004	**B-99**	Water	09/12/22 10:25	09/13/22 10:30
92625189005	**B-119D**	Water	09/12/22 10:37	09/13/22 10:30
92625189006	**Dup-3**	Water	09/12/22 00:00	09/13/22 10:30
92625189007	**B-96**	Water	09/13/22 11:33	09/14/22 09:53
92625189008	**B-122D**	Water	09/14/22 10:33	09/15/22 08:20
92625189009	**EB-4**	Water	09/14/22 11:23	09/15/22 08:20
92625189010	**B-117D**	Water	09/15/22 10:36	09/16/22 16:30
92625189011	**B-123D**	Water	09/20/22 15:25	09/21/22 15:05

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SAMPLE ANALYTE COUNT

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92625189001	**B-90**	EPA 6020B	CW1	1
92625189002	**B-91**	EPA 6020B	CW1	1
92625189003	**B-95**	EPA 6020B	CW1	1
92625189004	**B-99**	EPA 6020B	CW1	1
92625189005	**B-119D**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625189006	**Dup-3**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625189007	**B-96**	EPA 6020B	CW1	1
92625189008	**B-122D**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625189009	**EB-4**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625189010	**B-117D**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92625189011	**B-123D**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	MAB2	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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ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

Sample: B-90 **Lab ID: 92625189001** Collected: 09/12/22 12:15 Received: 09/13/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/13/22 13:55		
pH	**5.35**	Std. Units			1		09/13/22 13:55		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**2.6**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/28/22 23:37	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

Sample: B-91 **Lab ID: 92625189002** Collected: 09/12/22 13:26 Received: 09/13/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/13/22 13:55		
pH	**5.28**	Std. Units			1		09/13/22 13:55		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**2.9**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 00:01	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

Sample: B-95 **Lab ID: 92625189003** Collected: 09/12/22 14:38 Received: 09/13/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/13/22 13:55		
pH	**5.33**	Std. Units			1		09/13/22 13:55		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.5**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 00:07	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

Sample: B-99 **Lab ID: 92625189004** Collected: 09/12/22 10:25 Received: 09/13/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/13/22 13:56		
pH	**5.71**	Std. Units			1		09/13/22 13:56		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**2.2**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 00:13	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

Sample: B-119D **Lab ID: 92625189005** Collected: 09/12/22 10:37 Received: 09/13/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/13/22 13:56		
pH	**6.57**	Std. Units			1		09/13/22 13:56		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**1.5**	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 16:10	7439-89-6	
Potassium	**2.0**	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 16:10	7440-09-7	
Sodium	**10.2**	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 16:10	7440-23-5	M1
Calcium	**10.4**	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 16:10	7440-70-2	M1
Magnesium	**3.2**	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 16:10	7439-95-4	
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	09/27/22 18:00	09/29/22 00:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 00:19	7440-38-2	
Barium	**0.0029J**	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 00:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 00:19	7440-41-7	
Boron	**0.048**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 00:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 00:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 00:19	7440-47-3	
Cobalt	**0.0031J**	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 00:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 00:19	7439-92-1	
Lithium	**0.0045J**	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 00:19	7439-93-2	
Molybdenum	**0.015**	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 00:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 00:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 00:19	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	10/03/22 11:30	10/03/22 13:22	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**87.0**	mg/L	25.0	10.0	1		09/15/22 11:46		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**60.6**	mg/L	5.0	5.0	1		09/16/22 17:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/16/22 17:12		
Alkalinity, Total as CaCO3	**60.6**	mg/L	5.0	5.0	1		09/16/22 17:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.8**	mg/L	1.0	0.60	1		09/15/22 21:46	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

Sample: B-119D **Lab ID: 92625189005** Collected: 09/12/22 10:37 Received: 09/13/22 10:30 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								
Fluoride	**0.084J**	mg/L	0.10	0.050	1		09/15/22 21:46	16984-48-8	
Sulfate	**2.8**	mg/L	1.0	0.50	1		09/15/22 21:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

Sample: Dup-3 **Lab ID: 92625189006** Collected: 09/12/22 00:00 Received: 09/13/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**1.6**	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 16:41	7439-89-6	
Potassium	**2.1**	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 16:41	7440-09-7	
Sodium	**10.9**	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 16:41	7440-23-5	
Calcium	**11.2**	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 16:41	7440-70-2	
Magnesium	**3.5**	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 16:41	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0014J**	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 00:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 00:37	7440-38-2	
Barium	**0.0028J**	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 00:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 00:37	7440-41-7	
Boron	**0.023J**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 00:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 00:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 00:37	7440-47-3	
Cobalt	**0.0030J**	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 00:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 00:37	7439-92-1	
Lithium	**0.0045J**	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 00:37	7439-93-2	
Molybdenum	**0.015**	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 00:37	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 00:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 00:37	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	10/03/22 11:30	10/03/22 13:25	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**94.0**	mg/L	25.0	10.0	1		09/15/22 11:46		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**61.4**	mg/L	5.0	5.0	1		09/16/22 17:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/16/22 17:19		
Alkalinity, Total as CaCO3	**61.4**	mg/L	5.0	5.0	1		09/16/22 17:19		
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		09/15/22 22:01	16887-00-6	
Fluoride	**0.085J**	mg/L	0.10	0.050	1		09/15/22 22:01	16984-48-8	
Sulfate	**2.9**	mg/L	1.0	0.50	1		09/15/22 22:01	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

Sample: B-96 **Lab ID: 92625189007** Collected: 09/13/22 11:33 Received: 09/14/22 09:53 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		09/14/22 14:44		
pH	**5.03**	Std. Units			1		09/14/22 14:44		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**3.4**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 00:43	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

Sample: B-122D **Lab ID: 92625189008** Collected: 09/14/22 10:33 Received: 09/15/22 08:20 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		09/15/22 17:33		
pH	**6.07**	Std. Units			1		09/15/22 17:33		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**13.8**	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 16:46	7439-89-6	
Potassium	**4.0**	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 16:46	7440-09-7	
Sodium	**31.3**	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 16:46	7440-23-5	
Calcium	**51.0**	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 16:46	7440-70-2	
Magnesium	**9.9**	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 16:46	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	09/27/22 18:00	09/29/22 01:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 01:01	7440-38-2	
Barium	**0.046**	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 01:01	7440-39-3	
Beryllium	**0.00028J**	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 01:01	7440-41-7	
Boron	**0.25**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 01:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 01:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 01:01	7440-47-3	
Cobalt	**0.0033J**	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 01:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 01:01	7439-92-1	
Lithium	**0.013J**	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 01:01	7439-93-2	
Molybdenum	**0.0011J**	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 01:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 01:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 01:01	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/03/22 11:30	10/03/22 13:27	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**315**	mg/L	25.0	10.0	1		09/19/22 09:22		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**123**	mg/L	5.0	5.0	1		09/20/22 16:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 16:56		
Alkalinity, Total as CaCO3	**123**	mg/L	5.0	5.0	1		09/20/22 16:56		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**15.5**	mg/L	1.0	0.60	1		09/19/22 18:14	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

Sample: B-122D **Lab ID: 92625189008** Collected: 09/14/22 10:33 Received: 09/15/22 08:20 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								
Fluoride	**0.17**	mg/L	0.10	0.050	1		09/19/22 18:14	16984-48-8	
Sulfate	**121**	mg/L	2.0	1.0	2		09/20/22 00:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

Sample: EB-4 **Lab ID: 92625189009** Collected: 09/14/22 11:23 Received: 09/15/22 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 16:50	7439-89-6	
Potassium	ND	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 16:50	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 16:50	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 16:50	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 16:50	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/27/22 18:00	09/29/22 01:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 01:07	7440-38-2	
Barium	**0.0024J**	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 01:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 01:07	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 01:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 01:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 01:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 01:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 01:07	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 01:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 01:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 01:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 01:07	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	10/03/22 11:30	10/03/22 13:30	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/19/22 09:22		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 17:07		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 17:07		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/20/22 17:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/19/22 18:29	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/19/22 18:29	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/19/22 18:29	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

Sample: B-117D **Lab ID: 92625189010** Collected: 09/15/22 10:36 Received: 09/16/22 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/19/22 10:29		
pH	**5.86**	Std. Units			1		09/19/22 10:29		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 16:55	7439-89-6	
Potassium	**2.6**	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 16:55	7440-09-7	
Sodium	**16.6**	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 16:55	7440-23-5	
Calcium	**9.5**	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 16:55	7440-70-2	
Magnesium	**1.5**	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 16:55	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	09/27/22 18:00	09/29/22 15:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 15:21	7440-38-2	
Barium	**0.043**	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 15:21	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 15:21	7440-41-7	
Boron	**0.011J**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 15:21	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 15:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 15:21	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 15:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 15:21	7439-92-1	
Lithium	**0.0094J**	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 15:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 15:21	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 15:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 15:21	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	0.00013	1	10/03/22 11:30	10/03/22 13:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**106**	mg/L	25.0	10.0	1		09/20/22 13:21		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**42.0**	mg/L	5.0	5.0	1		09/20/22 17:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/20/22 17:38		
Alkalinity, Total as CaCO3	**42.0**	mg/L	5.0	5.0	1		09/20/22 17:38		
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		09/20/22 20:22	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

Sample: B-117D **Lab ID: 92625189010** Collected: 09/15/22 10:36 Received: 09/16/22 16:30 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								
Fluoride	**0.090J**	mg/L	0.10	0.050	1		09/20/22 20:22	16984-48-8	
Sulfate	**14.4**	mg/L	1.0	0.50	1		09/20/22 20:22	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

Sample: B-123D **Lab ID: 92625189011** Collected: 09/20/22 15:25 Received: 09/21/22 15:05 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		09/21/22 16:51		
pH	**7.13**	Std. Units			1		09/21/22 16:51		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**5.4**	mg/L	0.040	0.025	1	09/28/22 12:36	09/28/22 18:37	7439-89-6	
Potassium	**7.6**	mg/L	0.20	0.15	1	09/28/22 12:36	09/28/22 18:37	7440-09-7	
Sodium	**29.0**	mg/L	1.0	0.58	1	09/28/22 12:36	09/28/22 18:37	7440-23-5	
Calcium	**90.8**	mg/L	1.0	0.12	1	09/28/22 12:36	09/28/22 18:37	7440-70-2	
Magnesium	**13.0**	mg/L	0.050	0.012	1	09/28/22 12:36	09/28/22 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	09/27/22 18:00	09/29/22 16:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/27/22 18:00	09/29/22 16:41	7440-38-2	
Barium	**0.023**	mg/L	0.0050	0.00067	1	09/27/22 18:00	09/29/22 16:41	7440-39-3	
Beryllium	**0.00022J**	mg/L	0.00050	0.000054	1	09/27/22 18:00	09/29/22 16:41	7440-41-7	
Boron	**0.49**	mg/L	0.040	0.0086	1	09/27/22 18:00	09/29/22 16:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/27/22 18:00	09/29/22 16:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/27/22 18:00	09/29/22 16:41	7440-47-3	
Cobalt	**0.056**	mg/L	0.0050	0.00039	1	09/27/22 18:00	09/29/22 16:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/27/22 18:00	09/29/22 16:41	7439-92-1	
Lithium	**0.034**	mg/L	0.030	0.00073	1	09/27/22 18:00	09/29/22 16:41	7439-93-2	
Molybdenum	**0.0015J**	mg/L	0.010	0.00074	1	09/27/22 18:00	09/29/22 16:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/27/22 18:00	09/29/22 16:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/27/22 18:00	09/29/22 16:41	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	0.00013	1	10/03/22 11:30	10/03/22 13:35	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**38.5**	mg/L	5.0	5.0	1		09/22/22 23:09		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/22/22 23:09		
Alkalinity, Total as CaCO3	**38.5**	mg/L	5.0	5.0	1		09/22/22 23:09		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**533**	mg/L	25.0	25.0	1		09/23/22 10:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.6**	mg/L	1.0	0.60	1		09/23/22 03:42	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

Sample: B-123D **Lab ID: 92625189011** Collected: 09/20/22 15:25 Received: 09/21/22 15:05 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								
Fluoride	**0.57**	mg/L	0.10	0.050	1		09/23/22 03:42	16984-48-8	
Sulfate	**292**	mg/L	5.0	2.5	5		09/23/22 05:28	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

QC Batch: 726415
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625189005, 92625189006, 92625189008, 92625189009, 92625189010, 92625189011

METHOD BLANK: 3783437 Matrix: Water
Associated Lab Samples: 92625189005, 92625189006, 92625189008, 92625189009, 92625189010, 92625189011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/28/22 16:00	
Iron	mg/L	ND	0.040	0.025	09/28/22 16:00	
Magnesium	mg/L	ND	0.050	0.012	09/28/22 16:00	
Potassium	mg/L	ND	0.20	0.15	09/28/22 16:00	
Sodium	mg/L	ND	1.0	0.58	09/28/22 16:00	

LABORATORY CONTROL SAMPLE: 3783438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Iron	mg/L	1	1.0	104	80-120	
Magnesium	mg/L	1	1.1	108	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Sodium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3783439 3783440

Parameter	Units	92625189005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	10.4	1	1	11.7	11.7	130	136	75-125	1	20	M1
Iron	mg/L	1.5	1	1	2.6	2.6	106	107	75-125	0	20	
Magnesium	mg/L	3.2	1	1	4.3	4.4	113	123	75-125	2	20	
Potassium	mg/L	2.0	1	1	3.0	3.1	103	108	75-125	2	20	
Sodium	mg/L	10.2	1	1	11.5	11.5	129	135	75-125	0	20	M1

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

QC Batch: 726202
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625189001, 92625189002, 92625189003, 92625189004, 92625189005, 92625189006, 92625189007, 92625189008, 92625189009

METHOD BLANK: 3782708 Matrix: Water
Associated Lab Samples: 92625189001, 92625189002, 92625189003, 92625189004, 92625189005, 92625189006, 92625189007, 92625189008, 92625189009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/28/22 23:25	
Arsenic	mg/L	ND	0.0050	0.0022	09/28/22 23:25	
Barium	mg/L	ND	0.0050	0.00067	09/28/22 23:25	
Beryllium	mg/L	ND	0.00050	0.000054	09/28/22 23:25	
Boron	mg/L	ND	0.040	0.0086	09/28/22 23:25	
Cadmium	mg/L	ND	0.00050	0.00011	09/28/22 23:25	
Chromium	mg/L	ND	0.0050	0.0011	09/28/22 23:25	
Cobalt	mg/L	ND	0.0050	0.00039	09/28/22 23:25	
Lead	mg/L	ND	0.0010	0.00089	09/28/22 23:25	
Lithium	mg/L	ND	0.030	0.00073	09/28/22 23:25	
Molybdenum	mg/L	ND	0.010	0.00074	09/28/22 23:25	
Selenium	mg/L	ND	0.0050	0.0014	09/28/22 23:25	
Thallium	mg/L	ND	0.0010	0.00018	09/28/22 23:25	

LABORATORY CONTROL SAMPLE: 3782709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3782710 3782711

Parameter	Units	92625189001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	100	103	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3782710 3782711

Parameter	Units	92625189001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	1	20	
Barium	mg/L	0.014	0.1	0.1	0.11	0.11	93	96	75-125	3	20	
Beryllium	mg/L	0.0018	0.1	0.1	0.093	0.092	91	91	75-125	0	20	
Boron	mg/L	2.6	1	1	3.7	3.7	107	107	75-125	0	20	
Cadmium	mg/L	0.00092	0.1	0.1	0.098	0.10	97	100	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.090	0.089	90	89	75-125	1	20	
Cobalt	mg/L	0.0032J	0.1	0.1	0.094	0.094	90	91	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.090	0.091	90	90	75-125	0	20	
Lithium	mg/L	0.0052J	0.1	0.1	0.10	0.10	97	96	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.094	0.095	93	95	75-125	1	20	
Selenium	mg/L	0.0020J	0.1	0.1	0.099	0.098	97	96	75-125	1	20	
Thallium	mg/L	0.00020J	0.1	0.1	0.091	0.090	91	90	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

QC Batch: 726205
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625189010, 92625189011

METHOD BLANK: 3782736 Matrix: Water
Associated Lab Samples: 92625189010, 92625189011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/29/22 14:50	
Arsenic	mg/L	ND	0.0050	0.0022	09/29/22 14:50	
Barium	mg/L	ND	0.0050	0.00067	09/29/22 14:50	
Beryllium	mg/L	ND	0.00050	0.000054	09/29/22 14:50	
Boron	mg/L	ND	0.040	0.0086	09/29/22 14:50	
Cadmium	mg/L	ND	0.00050	0.00011	09/29/22 14:50	
Chromium	mg/L	ND	0.0050	0.0011	09/29/22 14:50	
Cobalt	mg/L	ND	0.0050	0.00039	09/29/22 14:50	
Lead	mg/L	ND	0.0010	0.00089	09/29/22 14:50	
Lithium	mg/L	ND	0.030	0.00073	09/29/22 14:50	
Molybdenum	mg/L	ND	0.010	0.00074	09/29/22 14:50	
Selenium	mg/L	ND	0.0050	0.0014	09/29/22 14:50	
Thallium	mg/L	ND	0.0010	0.00018	09/29/22 14:50	

LABORATORY CONTROL SAMPLE: 3782737

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.099	99	80-120	
Arsenic	mg/L	0.1	0.095	95	80-120	
Barium	mg/L	0.1	0.094	94	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.095	95	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3782738 3782739

Parameter	Units	92625189010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.098	0.10	97	101	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.094	0.097	93	96	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3782738 3782739

Parameter	Units	92625189010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.043	0.1	0.1	0.13	0.14	90	93	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.089	0.092	89	92	75-125	4	20	
Boron	mg/L	0.011J	1	1	0.92	0.98	91	97	75-125	6	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.097	0.10	96	100	75-125	4	20	
Cobalt	mg/L	ND	0.1	0.1	0.098	0.10	98	103	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.093	0.098	93	98	75-125	5	20	
Lithium	mg/L	0.0094J	0.1	0.1	0.099	0.10	90	94	75-125	4	20	
Molybdenum	mg/L	ND	0.1	0.1	0.095	0.10	95	100	75-125	6	20	
Selenium	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.094	0.098	94	98	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

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(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

QC Batch: 727398 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625189005, 92625189006, 92625189008, 92625189009, 92625189010, 92625189011

METHOD BLANK: 3787972 Matrix: Water
Associated Lab Samples: 92625189005, 92625189006, 92625189008, 92625189009, 92625189010, 92625189011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	10/03/22 13:17	

LABORATORY CONTROL SAMPLE: 3787973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3787974 3787975

Parameter	Units	92625178002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.00016J	0.0025	0.0025	0.0022	0.0022	82	81	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

QC Batch: 723325
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625189005, 92625189006

METHOD BLANK: 3768875 Matrix: Water
Associated Lab Samples: 92625189005, 92625189006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/15/22 11:44	

LABORATORY CONTROL SAMPLE: 3768876

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	374	94	80-120	

SAMPLE DUPLICATE: 3768878

Parameter	Units	92625189005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	87.0	83.0	5	10	

SAMPLE DUPLICATE: 3768892

Parameter	Units	92625181001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	197	193	2	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

QC Batch: 724043
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625189008, 92625189009

METHOD BLANK: 3772705 Matrix: Water
Associated Lab Samples: 92625189008, 92625189009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/19/22 09:17	

LABORATORY CONTROL SAMPLE: 3772706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	386	96	80-120	

SAMPLE DUPLICATE: 3772708

Parameter	Units	92625623010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	572	582	2	10	

SAMPLE DUPLICATE: 3772903

Parameter	Units	92625178010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	582	578	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

QC Batch: 724233
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625189010

METHOD BLANK: 3773743 Matrix: Water
Associated Lab Samples: 92625189010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/20/22 13:21	

LABORATORY CONTROL SAMPLE: 3773744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	346	86	80-120	

SAMPLE DUPLICATE: 3773745

Parameter	Units	92625623012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	437	420	4	10	

SAMPLE DUPLICATE: 3773746

Parameter	Units	92625623021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	440	405	8	10	

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QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

QC Batch: 723613
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625189005, 92625189006

METHOD BLANK: 3770309 Matrix: Water
Associated Lab Samples: 92625189005, 92625189006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/16/22 13:22	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/16/22 13:22	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/16/22 13:22	

LABORATORY CONTROL SAMPLE: 3770310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.1	104	80-120	

LABORATORY CONTROL SAMPLE: 3770311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.6	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3770314 3770315

Parameter	Units	92625683004 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	190	50	50	247	262	114	144	80-120	6	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3771994 3771995

Parameter	Units	92625683003 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	54.9	54.9	104	103	80-120	0	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

QC Batch: 724379
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625189008, 92625189009, 92625189010

METHOD BLANK: 3774170 Matrix: Water
Associated Lab Samples: 92625189008, 92625189009, 92625189010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/20/22 15:05	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/20/22 15:05	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/20/22 15:05	

LABORATORY CONTROL SAMPLE: 3774171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.8	104	80-120	

LABORATORY CONTROL SAMPLE: 3774172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774173 3774174

Parameter	Units	92625623006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	50.8	51.4	102	103	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774175 3774176

Parameter	Units	92625623011 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	56.4	56.1	104	104	80-120	1	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

QC Batch: 725081
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625189011

METHOD BLANK: 3777562 Matrix: Water
Associated Lab Samples: 92625189011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/23/22 14:29	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/23/22 14:29	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/23/22 14:29	

LABORATORY CONTROL SAMPLE: 3777563

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.5	101	80-120	

LABORATORY CONTROL SAMPLE: 3777564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.4	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777565 3777566

Parameter	Units	92626727004 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	449	50	50	471	468	43	37	80-120	1	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777567 3777568

Parameter	Units	92626727005 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	149	50	50	207	200	116	103	80-120	3	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

QC Batch: 725355
QC Batch Method: SM 2540C-2011
Analysis Method: SM 2540C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625189011

METHOD BLANK: 3778984 Matrix: Water
Associated Lab Samples: 92625189011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/23/22 10:01	

LABORATORY CONTROL SAMPLE: 3778985

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	242	97	90-110	

SAMPLE DUPLICATE: 3778986

Parameter	Units	92626923001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	29.0	33.0	13	25	

SAMPLE DUPLICATE: 3778987

Parameter	Units	92626865001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2430	2480	2	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

QC Batch: 723467
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625189005, 92625189006

METHOD BLANK: 3769521 Matrix: Water
Associated Lab Samples: 92625189005, 92625189006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/15/22 15:11	
Fluoride	mg/L	ND	0.10	0.050	09/15/22 15:11	
Sulfate	mg/L	ND	1.0	0.50	09/15/22 15:11	

LABORATORY CONTROL SAMPLE: 3769522

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.0	98	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	49.3	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3769523 3769524

Parameter	Units	92625147002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	94.2	50	50	133	134	77	79	90-110	1	10	M1
Fluoride	mg/L	0.49	2.5	2.5	3.0	3.0	101	102	90-110	1	10	
Sulfate	mg/L	53.6	50	50	99.3	100	91	93	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3769525 3769526

Parameter	Units	92625178002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	15.0	50	50	66.7	67.1	103	104	90-110	1	10	
Fluoride	mg/L	0.40	2.5	2.5	3.6	3.6	127	128	90-110	1	10	M1
Sulfate	mg/L	508	50	50	552	552	88	89	90-110	0	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

QC Batch: 724055
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625189008, 92625189009

METHOD BLANK: 3772745 Matrix: Water
Associated Lab Samples: 92625189008, 92625189009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/19/22 00:00	
Fluoride	mg/L	ND	0.10	0.050	09/19/22 00:00	
Sulfate	mg/L	ND	1.0	0.50	09/19/22 00:00	

LABORATORY CONTROL SAMPLE: 3772746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3772749 3772750

Parameter	Units	92625178011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.3	50	50	61.5	61.6	102	103	90-110	0	10	
Fluoride	mg/L	0.38	2.5	2.5	3.0	3.0	106	107	90-110	1	10	
Sulfate	mg/L	228	50	50	276	279	97	102	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3772755 3772756

Parameter	Units	92625980001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.6	50	50	53.2	53.2	101	101	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	101	102	90-110	0	10	
Sulfate	mg/L	5.5	50	50	56.9	56.6	103	102	90-110	0	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

QC Batch: 724437
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625189010

METHOD BLANK: 3774398 Matrix: Water
Associated Lab Samples: 92625189010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/20/22 18:23	
Fluoride	mg/L	ND	0.10	0.050	09/20/22 18:23	
Sulfate	mg/L	ND	1.0	0.50	09/20/22 18:23	

LABORATORY CONTROL SAMPLE: 3774399

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.4	99	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	50.2	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774400 3774401

Parameter	Units	92626469002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	105	50	50	159	159	108	107	90-110	0	10	
Fluoride	mg/L	0.49	2.5	2.5	3.1	3.2	106	107	90-110	1	10	
Sulfate	mg/L	31.2	50	50	82.4	82.6	102	103	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774402 3774403

Parameter	Units	92625623020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	26.2	50	50	77.4	77.1	102	102	90-110	0	10	
Fluoride	mg/L	0.69	2.5	2.5	3.2	3.3	102	104	90-110	1	10	
Sulfate	mg/L	462	50	50	509	510	92	95	90-110	0	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

QC Batch: 725140
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92625189011

METHOD BLANK: 3777923 Matrix: Water
Associated Lab Samples: 92625189011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/22/22 20:18	
Fluoride	mg/L	ND	0.10	0.050	09/22/22 20:18	
Sulfate	mg/L	ND	1.0	0.50	09/22/22 20:18	

LABORATORY CONTROL SAMPLE: 3777924

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.3	95	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	47.6	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777925 3777926

Parameter	Units	92626959007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	12.9	50	50	61.1	61.1	96	96	90-110	0	10	
Fluoride	mg/L	0.23	2.5	2.5	2.7	2.7	98	97	90-110	1	10	
Sulfate	mg/L	31.0	50	50	79.4	79.5	97	97	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777927 3777928

Parameter	Units	92626959011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	15.2	50	50	63.1	63.7	96	97	90-110	1	10	
Fluoride	mg/L	0.38	2.5	2.5	2.9	2.9	101	102	90-110	1	10	
Sulfate	mg/L	ND	50	50	47.9	48.6	95	96	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625189001	**B-90**				
92625189002	**B-91**				
92625189003	**B-95**				
92625189004	**B-99**				
92625189005	**B-119D**				
92625189007	**B-96**				
92625189008	**B-122D**				
92625189010	**B-117D**				
92625189011	**B-123D**				
92625189005	**B-119D**	EPA 3010A	726415	EPA 6010D	726515
92625189006	**Dup-3**	EPA 3010A	726415	EPA 6010D	726515
92625189008	**B-122D**	EPA 3010A	726415	EPA 6010D	726515
92625189009	**EB-4**	EPA 3010A	726415	EPA 6010D	726515
92625189010	**B-117D**	EPA 3010A	726415	EPA 6010D	726515
92625189011	**B-123D**	EPA 3010A	726415	EPA 6010D	726515
92625189001	**B-90**	EPA 3005A	726202	EPA 6020B	726322
92625189002	**B-91**	EPA 3005A	726202	EPA 6020B	726322
92625189003	**B-95**	EPA 3005A	726202	EPA 6020B	726322
92625189004	**B-99**	EPA 3005A	726202	EPA 6020B	726322
92625189005	**B-119D**	EPA 3005A	726202	EPA 6020B	726322
92625189006	**Dup-3**	EPA 3005A	726202	EPA 6020B	726322
92625189007	**B-96**	EPA 3005A	726202	EPA 6020B	726322
92625189008	**B-122D**	EPA 3005A	726202	EPA 6020B	726322
92625189009	**EB-4**	EPA 3005A	726202	EPA 6020B	726322
92625189010	**B-117D**	EPA 3005A	726205	EPA 6020B	726325
92625189011	**B-123D**	EPA 3005A	726205	EPA 6020B	726325
92625189005	**B-119D**	EPA 7470A	727398	EPA 7470A	727474
92625189006	**Dup-3**	EPA 7470A	727398	EPA 7470A	727474
92625189008	**B-122D**	EPA 7470A	727398	EPA 7470A	727474
92625189009	**EB-4**	EPA 7470A	727398	EPA 7470A	727474
92625189010	**B-117D**	EPA 7470A	727398	EPA 7470A	727474
92625189011	**B-123D**	EPA 7470A	727398	EPA 7470A	727474
92625189005	**B-119D**	SM 2540C-2015	723325		
92625189006	**Dup-3**	SM 2540C-2015	723325		
92625189008	**B-122D**	SM 2540C-2015	724043		
92625189009	**EB-4**	SM 2540C-2015	724043		
92625189010	**B-117D**	SM 2540C-2015	724233		
92625189005	**B-119D**	SM 2320B-2011	723613		
92625189006	**Dup-3**	SM 2320B-2011	723613		
92625189008	**B-122D**	SM 2320B-2011	724379		
92625189009	**EB-4**	SM 2320B-2011	724379		
92625189010	**B-117D**	SM 2320B-2011	724379		
92625189011	**B-123D**	SM 2320B-2011	725081		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-1, 2, 3/4 Supplem-Revised Report
Pace Project No.: 92625189

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625189011	**B-123D**	SM 2540C-2011	725355		
92625189005	**B-119D**	EPA 300.0 Rev 2.1 1993	723467		
92625189006	**Dup-3**	EPA 300.0 Rev 2.1 1993	723467		
92625189008	**B-122D**	EPA 300.0 Rev 2.1 1993	724055		
92625189009	**EB-4**	EPA 300.0 Rev 2.1 1993	724055		
92625189010	**B-117D**	EPA 300.0 Rev 2.1 1993	724437		
92625189011	**B-123D**	EPA 300.0 Rev 2.1 1993	725140		

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 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: GA Power

Project #:

WO# : 92625189

92625189

Courier: ☑ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/15/22 COR

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 236 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.8 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.8

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

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace Analytical	Document Name: Bottle Identification Form (BIF)	Document Issued: November 15, 2021 Page 1 of 1
	Document No.: F-CAR-CS-043-Rev.01	Issuing Authority: Pace Carolinas Quality Office

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

Project #

WO# : 92625189

PM: NMG Due Date: 09/27/22

CLIENT: GA-GA Power

Matrix	Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
	1		2	1			1																							
	2		2	1			1																			2	2			
	3																									2				
	4																													
	5																													
	6																													
	7																													
	8																													
	9																													
	10																													
	11																													
	12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scainvoices@southernco.com
Address: 2480 Maner Road Atlanta, GA 30339	Copy To: Golder	Company Name:
Email: laucoker@southernco.com	Purchase Order #:	Address:
Phone: (470) 620-6176 Fax	Project Name: Plant McD AP-1, AP-2, AP-3/4 Supplemental Sampling	Pace Quote:
Requested Due Date: 10 Day TAT	Project #: GL156849622	Pace Project Manager: Nicole D'Oleo
		Pace Profile #:

Regulatory Agency	
State / Location	GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Boron	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS															N	N	N	N	N	N	N		
1	B-90	WG	G	9/12/2022	12:15		1			1												X		pH = 5.35
2	B-91	WG	G	9/12/2022	13:26		1			1												X		pH = 5.28
3	B-95	WG	G	9/12/2022	14:38		1			1												X		pH = 5.33
4	B-99	WG	G	9/12/2022	10:25		1			1												X		pH = 5.71
6	B-119D	WG	G	9/12/2022	10:37		6	3		3							X	X	X	X	X	X			pH = 6.57, Fe2 = 0.0 mg/L
7	Dup-3	WG	G	9/12/2022	--		6	3		3							X	X	X	X	X	X			
8																									
9																									
10																									
11																									
12																									
13																									
14																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	JW../sample	9/13/22	8:05	M. BATH	9/13/22	8:10	
					9/14/22	1036	

JUDE WAGUESPACK DATE Signed: 9/13/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mec

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92625189

PM: NMG **Due Date: 09/27/22**

CLIENT: GA-GA Power

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/14/22 TDH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Thermometer: ☑ IR Gun ID: 230

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.2 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.2

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WW				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Project # **WO#: 92625189**

PM: NMG Due Date: 09/27/22

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3 9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U 40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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 Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com
Address: 2480 Maner Road	Copy To: Golder	Company Name:
Atlanta, GA 30339		Address:
Email: laucoker@southernco.com	Purchase Order #:	Pace Quote:
Phone: (470) 620-6176 Fax	Project Name: Plant McD AP-1, AP-2 and 3/4 Supplemental Sampling	Pace Project Manager: Nicole D'Oleo
Requested Due Date: 10 Day TAT	Project #: GL166846822	Pace Profile #:

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test	Requested Analysis Filtered (Y/N): Y/N	Boron	Residual Chlorine (Y/N)	
1	B-96	WG	G	9/13/2022	11:33		1			1							N	X		pH = 5.03
2																				
3																				
4																				
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[illegible] Sample	9-14-22	8:53	[illegible] 8:34	9/14/22	8:53				
				Lauren Hanks 9/14/22		8:53				

JUDE WAGUESPACK DATE Signed: 9-14-22

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power **Project**

WO# : 92625189

PM: NMG Due Date: 09/27/22
CLIENT: GA-GA Power

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 09/13/22 JM

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 083 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.9 **Correction Factor:** Add/Subtract (°C) 0.0

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

Cooler Temp Corrected (°C): 1.9

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4. 10 DAY TAT
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Qualtrax ID: 69614

WO#: 92625189

PM: NMG Due Date: 09/27/22

CLIENT: GA-GA Power

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

Project #

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	SP/N	BP3R-250 mL Plastic (NH2)2SO4 (9 3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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 Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Golder	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-8176 Fax	Project Name:	Plant McD AP-1, 2, 3/4 Supplemental Sampling	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	10 Day TAT	Project #:	GL166849822	Pace Profile #:	

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	5189
	MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS															N	N	N	N	N	N		
1	B-122D	WG	G	9/14/2022	10:33		6	3		3							X	X	X	X	X	X		pH = 6.07, Fe2 = 4.0 mg/L
2	EB-4	WG	G	9/14/2022	11:23		6	3		3							X	X	X	X	X	X		
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		09/15/22	09:10		8-15-22	8:20				
					9/15/22	0945				

DUANE FULTON / WSP-GOLDER

DATE Signed: 09/15/22

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ M... ☐ ... ☑ ...

Sample Condition Upon Receipt

Client Name: Georgia Power

Project

WO#: 92625189

PM: NMG **Due Date: 09/27/22**

CLIENT: GA-GA Power

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Pace ☐ Other:____ ☑ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/17/22 JM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Thermometer: ☐ IR Gun ID: 230

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Cooler Temp: 3.3 **Correction Factor:** Add/Subtract (°C) 0.0 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp Corrected (°C): 3.3

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

CLIENT NOTIFICATION/RESOLUTION **Lot ID of split containers:**

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Qualtrax ID: 69614

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

*****Check all unpreserved Nitrates for chlorine**

Project

WO#: 92625189

PM: NMG Due Date: 09/27/22

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BPIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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 Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Golder	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McD AP-1, 2, 3/4 Supplemental Well Network	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	10 Day TAT	Project #:	GL166849622	Pace Profile #:	

Regulatory Agency	State / Location
	GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	
1	B-117D	WG	G	9/15/2022	10:36		6	3		3						Y	X	X	X	X	X	X		pH = 5.86, Fe2 = 0.0 mg/L
2																N								
3																N								
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Mark Mann Golder	9/16/22	16:25		9/16	16:32	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

WO# : 92625189

PM: NMG Due Date: 09/27/22

CLIENT: GA-GA Power

Client Name: Georgia Power **Project #:**

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☑ Yes ☐ No

Date/Initials Person Examining Contents: 4/21/22 A

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☐ IR Gun ID: 230 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.6 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.6

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☑ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: W G	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

*****Check all unpreserved Nitrates for chlorine**

Proje

WO#: 92625189

PM: NMG Due Date: 09/27/22

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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12																													

pH Adjustment Log for Preserved Samples

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

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

PaceAnalytical

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 Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company	Georgia Power - Coal Combustion Residuals	Report To	Lauren Coker	Attention	scsinvoices@southernco.com
Address	2480 Maner Road	Copy To	Golder	Company Name	
	Atlanta, GA 30339			Address	
Email	laucoker@southernco.com	Purchase Order #		Pace Quote	
Phone	(470) 620-6176 Fax:	Project Name	Plant McD AP-1, 2, 3/4 Supplemental Well Network	Pace Project Manager	Nicole D'Oleo
Requested Due Date	10 Day TAT	Project #	GL166849622	Pace Profile #	

Regulatory Agency	
State / Location	GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	5212 5189
1	B-1Z3C	WG	G	9/20/2022	15:25		6	3		3						N	N	N	N	N	N			pH = 7.13, Fe2 = 4.5 mg/L
2																	X	X	X	X	X	X		
3																								
4																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Golder	09/26/22	15:05		9/27/22	1505	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

November 04, 2022

Andrea McClure
WSP/Golder
5170 Peachtree Road
Building 100, Suite 300
Atlanta, GA 30341

RE: Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report
Pace Project No.: 92625212

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between September 13, 2022 and September 21, 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

Revision 1: Issued on 11/4/22 to include Radium QC Sheets.

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

Sincerely,

Nicole D'Oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Stephen Benda, Southern Company
Noelia Gangi, Georgia Power
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Karim Minkara, Golder Associates - Atlanta
J. Shelby Mobley, Southern Company
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Michael Smilley, Georgia Power
Yong Cheng Soo, WSP/Golder
Tina Sullivan, ERM

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report
Pace Project No.: 92625212

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report
Pace Project No.: 92625212

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92625212001	**B-119D**	Water	09/12/22 10:37	09/13/22 10:30
92625212002	**Dup-3**	Water	09/12/22 00:00	09/13/22 10:30
92625212003	**B-122D**	Water	09/14/22 10:33	09/15/22 08:20
92625212004	**EB-4**	Water	09/14/22 11:23	09/15/22 08:20
92625212005	**B-117D**	Water	09/15/22 10:36	09/16/22 16:30
92625212006	**B-123D**	Water	09/20/22 15:25	09/21/22 15:05

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report
Pace Project No.: 92625212

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92625212001	**B-119D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625212002	**Dup-3**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625212003	**B-122D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625212004	**EB-4**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625212005	**B-117D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92625212006	**B-123D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report
Pace Project No.: 92625212

Sample: B-119D **Lab ID: 92625212001** Collected: 09/12/22 10:37 Received: 09/13/22 10:30 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	**0.145 ± 0.105 (0.174) C:97% T:NA**	pCi/L	10/12/22 20:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.183 ± 0.492 (1.10) C:57% T:87%**	pCi/L	10/10/22 13:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.328 ± 0.597 (1.27)**	pCi/L	10/14/22 17:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report
Pace Project No.: 92625212

Sample: Dup-3 **Lab ID: 92625212002** Collected: 09/12/22 00:00 Received: 09/13/22 10:30 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	**0.181 ± 0.112 (0.162) C:89% T:NA**	pCi/L	10/12/22 20:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.486 ± 0.414 (0.828) C:80% T:84%**	pCi/L	10/10/22 13:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.667 ± 0.526 (0.990)**	pCi/L	10/14/22 17:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report
Pace Project No.: 92625212

Sample: B-122D **Lab ID: 92625212003** Collected: 09/14/22 10:33 Received: 09/15/22 08:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**3.11 ± 0.608 (0.173) C:94% T:NA**	pCi/L	10/13/22 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**4.83 ± 1.10 (0.803) C:73% T:86%**	pCi/L	10/11/22 14:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**7.94 ± 1.71 (0.976)**	pCi/L	10/14/22 17:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report
Pace Project No.: 92625212

Sample: EB-4 **Lab ID: 92625212004** Collected: 09/14/22 11:23 Received: 09/15/22 08:20 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	**0.00481 ± 0.0724 (0.197) C:94% T:NA**	pCi/L	10/13/22 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.590 ± 0.416 (0.802) C:73% T:88%**	pCi/L	10/11/22 14:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.595 ± 0.488 (0.999)**	pCi/L	10/14/22 17:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report
Pace Project No.: 92625212

Sample: B-117D **Lab ID: 92625212005** Collected: 09/15/22 10:36 Received: 09/16/22 16:30 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	**0.241 ± 0.142 (0.224) C:96% T:NA**	pCi/L	10/07/22 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.634 ± 0.403 (0.757) C:76% T:84%**	pCi/L	10/04/22 15:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.875 ± 0.545 (0.981)**	pCi/L	10/07/22 15:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report
Pace Project No.: 92625212

Sample: B-123D **Lab ID: 92625212006** Collected: 09/20/22 15:25 Received: 09/21/22 15:05 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	**0.792 ± 0.230 (0.152) C:94% T:NA**	pCi/L	10/11/22 09:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**2.16 ± 0.657 (0.891) C:79% T:90%**	pCi/L	10/04/22 12:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.95 ± 0.887 (1.04)**	pCi/L	10/11/22 14:52	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report
Pace Project No.: 92625212

QC Batch: 535740
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92625212006

METHOD BLANK: 2599417
Matrix: Water
Associated Lab Samples: 92625212006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0657 ± 0.105 (0.234) C:98% T:NA	pCi/L	10/11/22 09:17	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report
Pace Project No.: 92625212

QC Batch: 536956
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92625212003, 92625212004

METHOD BLANK: 2605313 Matrix: Water
Associated Lab Samples: 92625212003, 92625212004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.000824 ± 0.0487 (0.149) C:97% T:NA	pCi/L	10/12/22 20:07	

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report
Pace Project No.: 92625212

QC Batch: 535922
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92625212001, 92625212002

METHOD BLANK: 2600355 Matrix: Water
Associated Lab Samples: 92625212001, 92625212002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0438 ± 0.0695 (0.152) C:94% T:NA	pCi/L	10/12/22 20:23	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report
Pace Project No.: 92625212

QC Batch: 534681
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92625212005

METHOD BLANK: 2594503 Matrix: Water
Associated Lab Samples: 92625212005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0423 ± 0.0706 (0.157) C:95% T:NA	pCi/L	10/07/22 09:37	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report
Pace Project No.: 92625212

QC Batch: 536957
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92625212003, 92625212004

METHOD BLANK: 2605315 Matrix: Water
Associated Lab Samples: 92625212003, 92625212004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.660 ± 0.393 (0.716) C:65% T:87%	pCi/L	10/11/22 11:38	

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report
Pace Project No.: 92625212

QC Batch: 534679
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92625212005

METHOD BLANK: 2594500 Matrix: Water
Associated Lab Samples: 92625212005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.343 ± 0.266 (0.703) C:75% T:90%	pCi/L	10/04/22 15:45	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report
Pace Project No.: 92625212

QC Batch: 535924
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92625212001, 92625212002

METHOD BLANK: 2600360 Matrix: Water
Associated Lab Samples: 92625212001, 92625212002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.590 ± 0.382 (0.710) C:71% T:92%	pCi/L	10/10/22 13:30	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report
Pace Project No.: 92625212

QC Batch: 535739
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92625212006

METHOD BLANK: 2599416
Matrix: Water
Associated Lab Samples: 92625212006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0371 ± 0.270 (0.626) C:74% T:89%	pCi/L	10/04/22 12:22	

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report
Pace Project No.: 92625212

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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-1, 2, 3/4 Sup Rad-Revised Report
Pace Project No.: 92625212

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625212001	**B-119D**	EPA 9315	535922		
92625212002	**Dup-3**	EPA 9315	535922		
92625212003	**B-122D**	EPA 9315	536956		
92625212004	**EB-4**	EPA 9315	536956		
92625212005	**B-117D**	EPA 9315	534681		
92625212006	**B-123D**	EPA 9315	535740		
92625212001	**B-119D**	EPA 9320	535924		
92625212002	**Dup-3**	EPA 9320	535924		
92625212003	**B-122D**	EPA 9320	536957		
92625212004	**EB-4**	EPA 9320	536957		
92625212005	**B-117D**	EPA 9320	534679		
92625212006	**B-123D**	EPA 9320	535739		
92625212001	**B-119D**	Total Radium Calculation	540022		
92625212002	**Dup-3**	Total Radium Calculation	540022		
92625212003	**B-122D**	Total Radium Calculation	540023		
92625212004	**EB-4**	Total Radium Calculation	540023		
92625212005	**B-117D**	Total Radium Calculation	538367		
92625212006	**B-123D**	Total Radium Calculation	538980		

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project

WO# : 92625212

92625212

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: 09/13/22 JM

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer:
☐ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.9 **Correction Factor:** Add/Subtract (°C) 0.0

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

Cooler Temp Corrected (°C): 1.9

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4. 10 DAY TAT
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Qualtrax ID: 69614

WO# : 92625212

PM: NMG Due Date: 10/04/22

CLIENT: GA-GA Power

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project #

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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 Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scainvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Golder	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McD AP-1, AP-2, AP-3/4 Supplemental Sampling	Pace Project Manager:	Nicole D'Olso
Requested Due Date:	10 Day TAT	Project #:	GL166849622	Pace Profile #:	

Regulatory Agency	State / Location
	GA

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Boron	Residual Chlorine (Y/N)	
	Requested Analysis Filtered (Y/N)															N	N	N	N	N	N	N		
1	B-90	WG	G	9/12/2022	12:15		1			1												X		pH = 5.35
2	B-91	WG	G	9/12/2022	13:26		1			1												X		pH = 5.26
3	B-95	WG	G	9/12/2022	14:36		1			1												X		pH = 5.33
4	B-99	WG	G	9/12/2022	10:26		1			1												X		pH = 5.71
6	B-119D	WG	G	9/12/2022	10:37		6	3		3							X	X	X	X	X	X		pH = 6.57, Fe2 = 0.0 mg/L
7	Dup-3	WG	G	9/12/2022	–		6	3		3							X	X	X	X	X	X		
8																								
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14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	[illegible]/sample	9/13/22	8:05	M. BAH	9/13/22	8:10
				[signature]	9/13/22	1036

JUDE WAGUESPACK DATE Signed: 9/13/22

SAMPLE CONDITIONS				
TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 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: GA Power **Project**

WO# : 92625212
PM: NMG Due Date: 10/04/22
CLIENT: GA-GA Power

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/15/22 COR

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 230 ☐ Wet ☐ Blue ☐ None **Type of Ice:**

Cooler Temp: 3.8 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.8

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

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY **Field Data Required?** ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace Analytical	Document Name: Bottle Identification Form (BIF)	Document Issued: November 15, 2021 Page 1 of 1
	Document No.: F-CAR-CS-043-Rev.01	Issuing Authority: Pace Carolinas Quality Office

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

Projec

WO# : 92625212

PM: NMG Due Date: 10/04/22

CLIENT: GA-GA Power

Matrix	Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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 Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: acainvoices@southernco.com
Address: 2480 Maner Road	Copy To: Golder	Company Name:
Atlanta, GA 30339		Address:
Email: laucoker@southernco.com	Purchase Order #:	Pace Quote:
Phone: (470) 620-6176 Fax	Project Name: Plant McD AP-1, 2, 3/4 Supplemental Sampling	Pace Project Manager: Nicole D'Oleo
Requested Due Date: 10 Day TAT	Project #: GL166849822	Pace Profile #:

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	5189
	MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS															Y/N	N	N	N	N	N	N		
1	B-122D	WG	G	9/14/2022	10:33		6	3		3							X	X	X	X	X	X		pH = 6.07, Fe2 = 4.0 mg/L
2	EB-4	WG	G	9/14/2022	11:23		6	3		3							X	X	X	X	X	X		
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		09/15/22	08:10	M. Bath	8.15.22	8:20				
				Chanda Hunter	9/15/22	0945				

DUANE FULTON / WSP-GOLDER

DATE Signed: 09/15/22

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #:

WO# : 92625212

PM: NMG Due Date: 10/04/22

CLIENT: GA-GA Power

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/17/22 JM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Cooler Temp: 3.3 Correction Factor: Add/Subtract (°C) 0.0

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp Corrected (°C): 3.3

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Pro

WO#: 92625212

PM: NMG Due Date: 10/04/22

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BPIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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 Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Golder	Company Name	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote	
Phone:	(470) 620-6176 Fax	Project Name	Plant McD AP-1, 2, 3/4 Supplemental Well Network	Pace Project Manager	Nicole D'Oleo
Requested Due Date:	10 Day TAT	Project #:	GL166849622	Pace Profile #	

Regulatory Agency	
State / Location	GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N): Y/N	Analyses Test: App. III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	
1	B-117D	WG	G	9/15/2022	10:36		6	3		3						N	X	X	X	X	X	X		pH = 5.86, Fe2 = 0.0 mg/L
2																N								
3																N								
4																N								
6																N								
7																N								
8																N								
9																N								
10																N								
11																N								
12																N								
13																N								
14																N								

10

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Mark Ryan Golder	9/16/22	16:25	[signature]	9/16	16:34	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical Services	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power **Project #:**

WO# : 92625212

PM: NMG **Due Date: 10/04/22**

CLIENT: GA-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☑ Yes ☐ No

Date/Initials Person Examining Contents: 4/21/22 AF

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☐ IR Gun ID: 230 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.6 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.6

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☑ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W G				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

WO# : 92625212

PM: NMG Due Date: 10/04/22

CLIENT: GA-GA Power

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project #

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																							
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company	Georgia Power - Coal Combustion Residuals	Report To	Lauren Coker	Attention	scsinvoices@southernco.com
Address	2480 Maner Road	Copy To	Golder	Company Name	
	Atlanta, GA 30339			Address	
Email	laucoker@southernco.com	Purchase Order #		Pace Quote	
Phone	(470) 620-6176 Fax	Project Name	Plant McD AP-1, 2, 3/4 Supplemental Well Network	Pace Project Manager	Nicole D'Oleo
Requested Due Date	10 Day TAT	Project #	GL166849622	Pace Profile #	

Regulatory Agency	
State / Location	GA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	
																Y/N	N	N	N	N	N	N		5212 5189
1	B-123D	WG	G	9/20/2022	15:25		6	3		3							X	X	X	X	X	X		pH = 7.13 Fe2 = 4.5 mg/L
2																								
3																								
4																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Matt Ryan Golder	09/21/22	15:05		9/21/22	1505	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test: Ra-226
Analyst: RMS
Date: 10/5/2022
Worklist: 69144
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2605313
MB concentration:	-0.001
M/B Counting Uncertainty:	0.049
MB MDC:	0.149
MB Numerical Performance Indicator:	-0.03
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS69144	LCSD69144
Count Date:	10/13/2022	10/13/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.504
Target Conc. (pCi/L, g, F):	4.746	4.770
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.962	5.296
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.512	0.551
Numerical Performance Indicator:	0.82	1.86
Percent Recovery:	104.55%	111.03%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS69144	2605313
Duplicate Sample I.D.	LCSD69144	92625212004
Sample Result (pCi/L, g, F):	4.962	-0.001
Sample Result Counting Uncertainty (pCi/L, g, F):	0.512	0.049
Sample Duplicate Result (pCi/L, g, F):	5.296	0.005
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.551	0.072
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.870	-0.127
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	6.01%	282.60%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~*** Batch must be re-prepped due to unacceptable precision.~~ N/A

LAM 10/13/22

LAM 10/13/22

LAM 10/13/22

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	RMS
Date:	9/26/2022
Worklist:	68985
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2594503
MB concentration:	0.042
M/B Counting Uncertainty:	0.070
MB MDC:	0.157
MB Numerical Performance Indicator:	1.18
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS68985	LCSD68985
Count Date:	10/7/2022	10/7/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.505	0.501
Target Conc. (pCi/L, g, F):	4.756	4.792
Uncertainty (Calculated):	0.057	0.058
Result (pCi/L, g, F):	5.097	4.847
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.493	0.496
Numerical Performance Indicator:	1.35	0.22
Percent Recovery:	107.17%	101.15%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS68985	2594503
Duplicate Sample I.D.	LCSD68985	92625631020
Sample Result (pCi/L, g, F):	5.097	0.042
Sample Result Counting Uncertainty (pCi/L, g, F):	0.493	0.070
Sample Duplicate Result (pCi/L, g, F):	4.847	0.033
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.496	0.065
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.702	0.192
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.78%	25.02%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

***~~Batch must be re-prepped due to unacceptable precision.~~ N/A
VAM 10/7/22

VAM 10/7/22

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	RMS
Date:	9/29/2022
Worklist:	69056
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2599417
MB concentration:	0.066
M/B Counting Uncertainty:	0.104
MB MDC:	0.234
MB Numerical Performance Indicator:	1.23
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS69056	LCSD69056
Count Date:	10/11/2022	10/11/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.503
Target Conc. (pCi/L, g, F):	4.772	4.776
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.561	5.048
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.462	0.491
Numerical Performance Indicator:	-0.89	1.08
Percent Recovery:	95.59%	105.68%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS69056	
Duplicate Sample I.D.	LCSD69056	
Sample Result (pCi/L, g, F):	4.561	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.462	
Sample Duplicate Result (pCi/L, g, F):	5.048	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.491	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.414	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	10.03%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAM 10/11/22

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	RMS
Date:	9/30/2022
Worklist:	69072
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2600355
MB concentration:	0.044
M/B Counting Uncertainty:	0.069
MB MDC:	0.152
MB Numerical Performance Indicator:	1.24
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS69072	LCSD69072
Count Date:	10/12/2022	10/12/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.505	0.511
Target Conc. (pCi/L, g, F):	4.758	4.704
Uncertainty (Calculated):	0.057	0.056
Result (pCi/L, g, F):	5.119	4.712
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.487	0.471
Numerical Performance Indicator:	1.44	0.03
Percent Recovery:	107.59%	100.17%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS69072	2600355
Duplicate Sample I.D.	LCSD69072	92624384013
Sample Result (pCi/L, g, F):	5.119	0.044
Sample Result Counting Uncertainty (pCi/L, g, F):	0.487	0.069
Sample Duplicate Result (pCi/L, g, F):	4.712	0.020
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.471	0.055
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	1.179	0.520
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.14%	73.02%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~***Batch must be re-prepped due to unacceptable precision.~~ N/A

LAM 10/13/22

LAM 10/13/22

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	9/28/2022
Worklist:	69055
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2599416
MB concentration:	0.037
M/B 2 Sigma CSU:	0.270
MB MDC:	0.626
MB Numerical Performance Indicator:	0.27
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS69055	LCSD69055
Count Date:	10/4/2022	10/4/2022
Spike I.D.:	22-029	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.874	19.874
Volume Used (mL):	0.20	0.20
Aliquot Volume (L, g, F):	0.806	0.805
Target Conc. (pCi/L, g, F):	4.933	4.940
Uncertainty (Calculated):	0.355	0.356
Result (pCi/L, g, F):	4.189	4.442
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.917	0.977
Numerical Performance Indicator:	-1.48	-0.94
Percent Recovery:	84.92%	89.91%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS69055	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD69055	
Sample Result (pCi/L, g, F):	4.189	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.917	
Sample Duplicate Result (pCi/L, g, F):	4.442	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.977	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.370	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.70%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Quality Control Sample Performance Assessment

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Test:	Ra-228
Analyst:	VAL
Date:	9/26/2022
Worklist:	68983
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2594500
MB concentration:	-0.343
M/B 2 Sigma CSU:	0.266
MB MDC:	0.703
MB Numerical Performance Indicator:	-2.52
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS68983	LCSD68983
Count Date:	10/4/2022	10/4/2022
Spike I.D.:	22-029	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.873	19.873
Volume Used (mL):	0.20	0.20
Aliquot Volume (L, g, F):	0.802	0.810
Target Conc. (pCi/L, g, F):	4.956	4.909
Uncertainty (Calculated):	0.357	0.353
Result (pCi/L, g, F):	3.835	3.327
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.896	0.797
Numerical Performance Indicator:	-2.28	-3.56
Percent Recovery:	77.37%	67.77%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.:	LCS68983	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD68983	
Sample Result (pCi/L, g, F):	3.835	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.896	
Sample Duplicate Result (pCi/L, g, F):	3.327	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.797	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.830	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	13.22%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Quality Control Sample Performance Assessment

Pace Analytical
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Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	9/30/2022
Worklist:	69073
Matrix:	WT

Method Blank Assessment	
MB Sample ID	2600360
MB concentration:	0.590
M/B 2 Sigma CSU:	0.382
MB MDC:	0.710
MB Numerical Performance Indicator:	3.02
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS69073	LCSD69073
Count Date:	10/10/2022	10/10/2022
Spike I.D.:	22-029	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.834	19.834
Volume Used (mL):	0.20	0.20
Aliquot Volume (L, g, F):	0.808	0.810
Target Conc. (pCi/L, g, F):	4.907	4.895
Uncertainty (Calculated):	0.353	0.352
Result (pCi/L, g, F):	6.528	6.766
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.382	1.419
Numerical Performance Indicator:	2.23	2.51
Percent Recovery:	133.05%	138.22%
Status vs Numerical Indicator:	N/A	Warning
Status vs Recovery:	Pass	Fail High**
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS69073	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD69073	
Sample Result (pCi/L, g, F):	6.528	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.382	
Sample Duplicate Result (pCi/L, g, F):	6.766	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.419	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.235	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.81%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.~~

~~**If all sample results are below MDC, the batch is acceptable, otherwise this batch must be reprepped due to LCSD failure.~~

10/11/22

MB activity < MDC, Pass

NI < 3 acceptable for LCS/LCSD

10/11/22

10/11/22

JW 10.11.22

Quality Control Sample Performance Assessment

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Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	10/5/2022
Worklist:	69145
Matrix:	WT

Method Blank Assessment

MB Sample ID	2605315
MB concentration:	0.660
M/B 2 Sigma CSU:	0.393
MB MDC:	0.716
MB Numerical Performance Indicator:	3.29
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCSD (Y or N)?	Y
	LCS69145	LCSD69145
Count Date:	10/11/2022	10/11/2022
Spike I.D.:	22-029	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.827	19.827
Volume Used (mL):	0.20	0.20
Aliquot Volume (L, g, F):	0.807	0.806
Target Conc. (pCi/L, g, F):	4.914	4.922
Uncertainty (Calculated):	0.354	0.354
Result (pCi/L, g, F):	4.634	4.396
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.047	0.980
Numerical Performance Indicator:	-0.50	-0.99
Percent Recovery:	94.32%	89.31%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment

Sample I.D.:	LCS69145	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD69145	
Sample Result (pCi/L, g, F):	4.634	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.047	
Sample Duplicate Result (pCi/L, g, F):	4.396	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.980	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.326	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.45%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Sample Matrix Spike Control Assessment

	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
~~*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable, otherwise this batch must be re-prepped.~~ MB activity < MDC, Pass
Au 10/12/22
2/1.0

JJY 10-13-22
Gm 10/12/22

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

September 23, 2022

Andrea McClure
WSP/Golder
5170 Peachtree Road
Building 100, Suite 300
Atlanta, GA 30341

RE: Project: Plant McDonough Supplemental
Pace Project No.: 92624826

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory on September 09, 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

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

Sincerely,

Nicole D'Oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Stephen Benda, Southern Company
Noelia Gangi, Georgia Power
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Karim Minkara, Golder Associates - Atlanta
J. Shelby Mobley, Southern Company
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Michael Smilley, Georgia Power
Yong Cheng Soo, WSP/Golder
Tina Sullivan, ERM

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant McDonough Supplemental
Pace Project No.: 92624826

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kincey 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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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SAMPLE SUMMARY

Project: Plant McDonough Supplemental
Pace Project No.: 92624826

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92624826001	**B-116D**	Water	09/08/22 12:42	09/09/22 15:50
92624826002	**DUP-2**	Water	09/08/22 00:00	09/09/22 15:50
92624826003	**B-118**	Water	09/09/22 12:00	09/09/22 15:50

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant McDonough Supplemental
Pace Project No.: 92624826

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92624826001	**B-116D**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92624826002	**DUP-2**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92624826003	**B-118**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant McDonough Supplemental
Pace Project No.: 92624826

Sample: B-116D **Lab ID: 92624826001** Collected: 09/08/22 12:42 Received: 09/09/22 15:50 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		09/09/22 17:41		
pH	**5.97**	Std. Units			1		09/09/22 17:41		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.087**	mg/L	0.040	0.025	1	09/21/22 12:19	09/21/22 21:29	7439-89-6	
Sodium	**7.7**	mg/L	1.0	0.58	1	09/21/22 12:19	09/21/22 21:29	7440-23-5	
Calcium	**10.1**	mg/L	1.0	0.12	1	09/21/22 12:19	09/21/22 21:29	7440-70-2	
Magnesium	**3.4**	mg/L	0.050	0.012	1	09/21/22 12:19	09/21/22 21:29	7439-95-4	
Potassium	**2.2**	mg/L	0.20	0.15	1	09/21/22 12:19	09/23/22 11:26	7440-09-7	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/21/22 17:50	09/22/22 19:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/21/22 17:50	09/22/22 19:20	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.00067	1	09/21/22 17:50	09/22/22 19:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/21/22 17:50	09/22/22 19:20	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/21/22 17:50	09/22/22 19:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/21/22 17:50	09/22/22 19:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/22 17:50	09/22/22 19:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/21/22 17:50	09/22/22 19:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/22 17:50	09/22/22 19:20	7439-92-1	
Lithium	**0.0054J**	mg/L	0.030	0.00073	1	09/21/22 17:50	09/22/22 19:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/22 17:50	09/22/22 19:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/22 17:50	09/22/22 19:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/22 17:50	09/22/22 19:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/22/22 14:00	09/22/22 17:53	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**82.0**	mg/L	25.0	10.0	1		09/14/22 11:33		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**50.3**	mg/L	5.0	5.0	1		09/14/22 17:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/22 17:56		
Alkalinity, Total as CaCO3	**50.3**	mg/L	5.0	5.0	1		09/14/22 17:56		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.4**	mg/L	1.0	0.60	1		09/13/22 19:57	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant McDonough Supplemental
Pace Project No.: 92624826

Sample: B-116D **Lab ID: 92624826001** Collected: 09/08/22 12:42 Received: 09/09/22 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.065J**	mg/L	0.10	0.050	1		09/13/22 19:57	16984-48-8	
Sulfate	**0.54J**	mg/L	1.0	0.50	1		09/13/22 19:57	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant McDonough Supplemental
Pace Project No.: 92624826

Sample: DUP-2 **Lab ID: 92624826002** Collected: 09/08/22 00:00 Received: 09/09/22 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.10**	mg/L	0.040	0.025	1	09/21/22 12:19	09/21/22 21:34	7439-89-6	
Sodium	**8.1**	mg/L	1.0	0.58	1	09/21/22 12:19	09/21/22 21:34	7440-23-5	
Calcium	**10.6**	mg/L	1.0	0.12	1	09/21/22 12:19	09/21/22 21:34	7440-70-2	
Magnesium	**3.6**	mg/L	0.050	0.012	1	09/21/22 12:19	09/21/22 21:34	7439-95-4	
Potassium	**2.5**	mg/L	0.20	0.15	1	09/21/22 12:19	09/23/22 11:31	7440-09-7	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/21/22 17:50	09/22/22 19:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/21/22 17:50	09/22/22 19:38	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.00067	1	09/21/22 17:50	09/22/22 19:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/21/22 17:50	09/22/22 19:38	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/21/22 17:50	09/22/22 19:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/21/22 17:50	09/22/22 19:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/22 17:50	09/22/22 19:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/21/22 17:50	09/22/22 19:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/22 17:50	09/22/22 19:38	7439-92-1	
Lithium	**0.0056J**	mg/L	0.030	0.00073	1	09/21/22 17:50	09/22/22 19:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/22 17:50	09/22/22 19:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/22 17:50	09/22/22 19:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/22 17:50	09/22/22 19:38	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/22/22 14:00	09/22/22 17:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**87.0**	mg/L	25.0	10.0	1		09/14/22 11:33		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**50.8**	mg/L	5.0	5.0	1		09/14/22 18:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/22 18:03		
Alkalinity, Total as CaCO3	**50.8**	mg/L	5.0	5.0	1		09/14/22 18:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.4**	mg/L	1.0	0.60	1		09/13/22 20:12	16887-00-6	
Fluoride	**0.065J**	mg/L	0.10	0.050	1		09/13/22 20:12	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/13/22 20:12	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant McDonough Supplemental
Pace Project No.: 92624826

Sample: B-118 **Lab ID: 92624826003** Collected: 09/09/22 12:00 Received: 09/09/22 15:50 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		09/09/22 17:41		
pH	**6.49**	Std. Units			1		09/09/22 17:41		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**2.3**	mg/L	0.20	0.15	1	09/21/22 12:19	09/22/22 21:25	7440-09-7	
Iron	**0.14**	mg/L	0.040	0.025	1	09/21/22 12:19	09/21/22 21:38	7439-89-6	
Sodium	**10.0**	mg/L	1.0	0.58	1	09/21/22 12:19	09/21/22 21:38	7440-23-5	
Calcium	**5.2**	mg/L	1.0	0.12	1	09/21/22 12:19	09/21/22 21:38	7440-70-2	
Magnesium	**2.0**	mg/L	0.050	0.012	1	09/21/22 12:19	09/21/22 21:38	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	09/21/22 17:50	09/22/22 19:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/21/22 17:50	09/22/22 19:44	7440-38-2	
Barium	**0.022**	mg/L	0.0050	0.00067	1	09/21/22 17:50	09/22/22 19:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/21/22 17:50	09/22/22 19:44	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/21/22 17:50	09/22/22 19:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/21/22 17:50	09/22/22 19:44	7440-43-9	
Chromium	**0.0017J**	mg/L	0.0050	0.0011	1	09/21/22 17:50	09/22/22 19:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/21/22 17:50	09/22/22 19:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/22 17:50	09/22/22 19:44	7439-92-1	
Lithium	**0.0024J**	mg/L	0.030	0.00073	1	09/21/22 17:50	09/22/22 19:44	7439-93-2	
Molybdenum	**0.0047J**	mg/L	0.010	0.00074	1	09/21/22 17:50	09/22/22 19:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/22 17:50	09/22/22 19:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/22 17:50	09/22/22 19:44	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	09/22/22 14:00	09/22/22 17:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**78.0**	mg/L	25.0	10.0	1		09/14/22 11:36		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**35.2**	mg/L	5.0	5.0	1		09/14/22 18:10		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/22 18:10		
Alkalinity, Total as CaCO3	**35.2**	mg/L	5.0	5.0	1		09/14/22 18:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.1**	mg/L	1.0	0.60	1		09/13/22 20:27	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant McDonough Supplemental
Pace Project No.: 92624826

Sample: B-118 **Lab ID: 92624826003** Collected: 09/09/22 12:00 Received: 09/09/22 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.080J**	mg/L	0.10	0.050	1		09/13/22 20:27	16984-48-8	
Sulfate	**2.8**	mg/L	1.0	0.50	1		09/13/22 20:27	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

QUALITY CONTROL DATA

Project: Plant McDonough Supplemental
Pace Project No.: 92624826

QC Batch: 724698
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92624826001, 92624826002, 92624826003

METHOD BLANK: 3775652 Matrix: Water
Associated Lab Samples: 92624826001, 92624826002, 92624826003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/21/22 19:48	
Iron	mg/L	ND	0.040	0.025	09/21/22 19:48	
Magnesium	mg/L	ND	0.050	0.012	09/21/22 19:48	
Potassium	mg/L	ND	0.20	0.15	09/21/22 19:48	
Sodium	mg/L	ND	1.0	0.58	09/21/22 19:48	

LABORATORY CONTROL SAMPLE: 3775653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Iron	mg/L	1	1.0	101	80-120	
Magnesium	mg/L	1	1.0	104	80-120	
Potassium	mg/L	1	1.0	103	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775654 3775655

Parameter	Units	92624373001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	73.2	1	1	71.7	72.8	-152	-37	75-125	2	20	M1
Iron	mg/L	1.9	1	1	2.9	2.9	101	100	75-125	0	20	
Magnesium	mg/L	25.2	1	1	25.7	25.7	49	52	75-125	0	20	M1
Potassium	mg/L	8.2	1	1	9.0	9.1	75	90	75-125	2	20	
Sodium	mg/L	19.9	1	1	20.3	20.6	38	68	75-125	1	20	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Plant McDonough Supplemental
Pace Project No.: 92624826

QC Batch: 724857
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92624826001, 92624826002, 92624826003

METHOD BLANK: 3776475 Matrix: Water
Associated Lab Samples: 92624826001, 92624826002, 92624826003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/22/22 16:16	
Arsenic	mg/L	ND	0.0050	0.0022	09/22/22 16:16	
Barium	mg/L	ND	0.0050	0.00067	09/22/22 16:16	
Beryllium	mg/L	ND	0.00050	0.000054	09/22/22 16:16	
Boron	mg/L	ND	0.040	0.0086	09/22/22 16:16	
Cadmium	mg/L	ND	0.00050	0.00011	09/22/22 16:16	
Chromium	mg/L	ND	0.0050	0.0011	09/22/22 16:16	
Cobalt	mg/L	ND	0.0050	0.00039	09/22/22 16:16	
Lead	mg/L	ND	0.0010	0.00089	09/22/22 16:16	
Lithium	mg/L	ND	0.030	0.00073	09/22/22 16:16	
Molybdenum	mg/L	ND	0.010	0.00074	09/22/22 16:16	
Selenium	mg/L	ND	0.0050	0.0014	09/22/22 16:16	
Thallium	mg/L	ND	0.0010	0.00018	09/22/22 16:16	

LABORATORY CONTROL SAMPLE: 3776476

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	0.096	96	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3776477 3776478

Parameter	Units	92622406010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.0011J	0.1	0.1	0.10	0.10	99	104	75-125	5	20	
Arsenic	mg/L	ND	0.1	0.1	0.093	0.098	93	98	75-125	5	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: Plant McDonough Supplemental
Pace Project No.: 92624826

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3776477 3776478

Parameter	Units	92622406010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.010	0.1	0.1	0.10	0.11	89	96	75-125	6	20	
Beryllium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20	
Boron	mg/L	0.012J	1	1	1.0	1.0	100	103	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Chromium	mg/L	0.0066	0.1	0.1	0.10	0.10	96	96	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.094	0.093	94	92	75-125	2	20	
Lithium	mg/L	0.0012J	0.1	0.1	0.096	0.098	95	97	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.093	0.095	93	95	75-125	2	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

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

QUALITY CONTROL DATA

Project: Plant McDonough Supplemental
Pace Project No.: 92624826

QC Batch: 724426
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92624826001, 92624826002, 92624826003

METHOD BLANK: 3774367 Matrix: Water
Associated Lab Samples: 92624826001, 92624826002, 92624826003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/22/22 17:16	

LABORATORY CONTROL SAMPLE: 3774368

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774369 3774370

Parameter	Units	92624373001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.00014J	0.0025	0.0025	0.0025	0.0025	93	93	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant McDonough Supplemental
Pace Project No.: 92624826

QC Batch: 722886 | 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: 92624826001, 92624826002, 92624826003

METHOD BLANK: 3766455 Matrix: Water
Associated Lab Samples: 92624826001, 92624826002, 92624826003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/14/22 11:30	

LABORATORY CONTROL SAMPLE: 3766456

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3766458

Parameter	Units	92624840004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	620000 ug/L	680	9	10	

SAMPLE DUPLICATE: 3767354

Parameter	Units	92624372007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	252	297	16	10	R1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: Plant McDonough Supplemental
Pace Project No.: 92624826

QC Batch: 723206
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92624826001, 92624826002, 92624826003

METHOD BLANK: 3768028 Matrix: Water
Associated Lab Samples: 92624826001, 92624826002, 92624826003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/14/22 14:56	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/22 14:56	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/22 14:56	

LABORATORY CONTROL SAMPLE: 3768029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.2	100	80-120	

LABORATORY CONTROL SAMPLE: 3768030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.8	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3768031 3768032

Parameter	Units	92625359004 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	324	50	50	353	349	58	51	80-120	1	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3768033 3768034

Parameter	Units	92624372011 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	134	50	50	193	185	118	102	80-120	4	25	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant McDonough Supplemental
Pace Project No.: 92624826

QC Batch: 722843
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92624826001, 92624826002, 92624826003

METHOD BLANK: 3766296 Matrix: Water
Associated Lab Samples: 92624826001, 92624826002, 92624826003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/13/22 12:35	
Fluoride	mg/L	ND	0.10	0.050	09/13/22 12:35	
Sulfate	mg/L	ND	1.0	0.50	09/13/22 12:35	

LABORATORY CONTROL SAMPLE: 3766297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.4	101	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3766298 3766299

Parameter	Units	92624945004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	938	50	50	975	975	73	74	90-110	0	10	M1
Fluoride	mg/L	ND	2.5	2.5	3.3J	3.8J	132	151	90-110		10	M1
Sulfate	mg/L	3180	50	50	3170	3160	-30	-43	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3766300 3766301

Parameter	Units	92624372011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	50	50	57.1	58.0	103	105	90-110	2	10	
Fluoride	mg/L	0.082J	2.5	2.5	2.4	2.4	92	92	90-110	0	10	
Sulfate	mg/L	96.6	50	50	150	153	106	113	90-110	2	10	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant McDonough Supplemental
Pace Project No.: 92624826

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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough Supplemental
Pace Project No.: 92624826

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92624826001	**B-116D**				
92624826003	**B-118**				
92624826001	**B-116D**	EPA 3010A	724698	EPA 6010D	724853
92624826002	**DUP-2**	EPA 3010A	724698	EPA 6010D	724853
92624826003	**B-118**	EPA 3010A	724698	EPA 6010D	724853
92624826001	**B-116D**	EPA 3005A	724857	EPA 6020B	724980
92624826002	**DUP-2**	EPA 3005A	724857	EPA 6020B	724980
92624826003	**B-118**	EPA 3005A	724857	EPA 6020B	724980
92624826001	**B-116D**	EPA 7470A	724426	EPA 7470A	725130
92624826002	**DUP-2**	EPA 7470A	724426	EPA 7470A	725130
92624826003	**B-118**	EPA 7470A	724426	EPA 7470A	725130
92624826001	**B-116D**	SM 2540C-2015	722886		
92624826002	**DUP-2**	SM 2540C-2015	722886		
92624826003	**B-118**	SM 2540C-2015	722886		
92624826001	**B-116D**	SM 2320B-2011	723206		
92624826002	**DUP-2**	SM 2320B-2011	723206		
92624826003	**B-118**	SM 2320B-2011	723206		
92624826001	**B-116D**	EPA 300.0 Rev 2.1 1993	722843		
92624826002	**DUP-2**	EPA 300.0 Rev 2.1 1993	722843		
92624826003	**B-118**	EPA 300.0 Rev 2.1 1993	722843		

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 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# : 92624826

92624826

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☑ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/9/22 JM

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.4 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.4

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

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10
Trip Blank Present?	☐ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

*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, O I and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Project

WO# : 92624826

PM: NMG Due Date: 09/23/22

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas k t (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9 3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1 ✓																			2				
2		2	1			1 ✓																			2				
3		2	1			1 ✓																			4				
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 th s form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately.

Page: 1 Of 1

Section A
Required Client Information:

Company:	Georgia Power - Coal Combustion Residuals
Address:	2480 Maner Road Atlanta, GA 30339
Email:	laucoker@southernco.com
Phone:	(470) 620-6176 Fax:
Requested Due Date:	10 Day TAT

Section B
Required Project Information:

Report To:	Lauren Coker
Copy To:	Golder
Purchase Order #:	
Project Name:	Plant McDonough Supplemental Sampling Network
Project #:	GL16684962

Section C
Invoice Information:

Attention:	scsinvoices@southernco.com
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	

Regulatory Agency	
State / Location	GA

SAMPLE ID
One Character per box.
(A-Z, 0-9 /, -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N): Y/N — N N N N N N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test	App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K,	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	4826
1	B-116D	WG	G	9/8/2022	12:42		6	3		3							X	X	X	X	X	X		pH = 5.97, Fe2 = 0.0 mg/L
2	DUP-2	WG	G	9/8/2022	–		6	3		3							X	X	X	X	X	X		
3	B-118	WG	G	9/9/2022	12:00		8	3		5							X	X	X	X	X	X		pH = 6.49, Fe2 = 0.0 mg/L
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Mark Maxwell / Golder	09/09/22	15:50	Charles [illegible]	9/9/22	1550	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

November 04, 2022

Andrea McClure
WSP/Golder
5170 Peachtree Road
Building 100, Suite 300
Atlanta, GA 30341

RE: Project: McDonough Supplemental Rads-Revised Report
Pace Project No.: 92624832

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory on September 09, 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

Revision 1: Issued on 11/4/22 to include Radium QC Sheets.

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

Sincerely,

Nicole D'Oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Stephen Benda, Southern Company
Noelia Gangi, Georgia Power
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Karim Minkara, Golder Associates - Atlanta
J. Shelby Mobley, Southern Company
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Michael Smilley, Georgia Power
Yong Cheng Soo, WSP/Golder
Tina Sullivan, ERM

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: McDonough Supplemental Rads-Revised Report
Pace Project No.: 92624832

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: McDonough Supplemental Rads-Revised Report
Pace Project No.: 92624832

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92624832001	**B-116D**	Water	09/08/22 12:42	09/09/22 15:50
92624832002	**DUP-2**	Water	09/08/22 00:00	09/09/22 15:50
92624832003	**B-118**	Water	09/09/22 12:00	09/09/22 15:50

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: McDonough Supplemental Rads-Revised Report
Pace Project No.: 92624832

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92624832001	**B-116D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92624832002	**DUP-2**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92624832003	**B-118**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough Supplemental Rads-Revised Report
Pace Project No.: 92624832

Sample: B-116D **Lab ID: 92624832001** Collected: 09/08/22 12:42 Received: 09/09/22 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.124 ± 0.0932 (0.143) C:94% T:NA**	pCi/L	10/02/22 10:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.562 ± 0.399 (0.777) C:76% T:84%**	pCi/L	09/28/22 11:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.686 ± 0.492 (0.920)**	pCi/L	10/03/22 12:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough Supplemental Rads-Revised Report
Pace Project No.: 92624832

Sample: DUP-2 **Lab ID: 92624832002** Collected: 09/08/22 00:00 Received: 09/09/22 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.187 ± 0.108 (0.140) C:93% T:NA**	pCi/L	10/02/22 10:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.247 ± 0.291 (0.614) C:81% T:98%**	pCi/L	09/28/22 11:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.434 ± 0.399 (0.754)**	pCi/L	10/03/22 12:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: McDonough Supplemental Rads-Revised Report
Pace Project No.: 92624832

Sample: B-118 **Lab ID: 92624832003** Collected: 09/09/22 12:00 Received: 09/09/22 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.182 ± 0.108 (0.147) C:94% T:NA**	pCi/L	10/02/22 10:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.605 ± 0.375 (0.700) C:80% T:81%**	pCi/L	09/28/22 11:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.787 ± 0.483 (0.847)**	pCi/L	10/03/22 12:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough Supplemental Rads-Revised Report
Pace Project No.: 92624832

QC Batch:	533110	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92624832001, 92624832002, 92624832003

METHOD BLANK: 2586601 Matrix: Water

Associated Lab Samples: 92624832001, 92624832002, 92624832003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00759 ± 0.0468 (0.133) C:88% T:NA	pCi/L	10/02/22 10:24	

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: McDonough Supplemental Rads-Revised Report
Pace Project No.: 92624832

QC Batch:	533111	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92624832001, 92624832002, 92624832003

METHOD BLANK: 2586603 Matrix: Water

Associated Lab Samples: 92624832001, 92624832002, 92624832003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.798 ± 0.368 (0.604) C:81% T:85%	pCi/L	09/28/22 11:36	

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: McDonough Supplemental Rads-Revised Report
Pace Project No.: 92624832

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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough Supplemental Rads-Revised Report
Pace Project No.: 92624832

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92624832001	**B-116D**	EPA 9315	533110		
92624832002	**DUP-2**	EPA 9315	533110		
92624832003	**B-118**	EPA 9315	533110		
92624832001	**B-116D**	EPA 9320	533111		
92624832002	**DUP-2**	EPA 9320	533111		
92624832003	**B-118**	EPA 9320	533111		
92624832001	**B-116D**	Total Radium Calculation	536982		
92624832002	**DUP-2**	Total Radium Calculation	536982		
92624832003	**B-118**	Total Radium Calculation	536982		

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 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

Proje

WO# : 92624832

92624832

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/9/22 JM

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.4 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.4

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

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☐ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

WO# : 92624832

PM: NMG Due Date: 09/30/22

CLIENT: GA-GA Power

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9 3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1 ✓																			2				
2		2	1			1 ✓																			2				
3		2	1			1 ✓																			4				
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com	
Address:	2480 Maner Road	Copy To:	Golder	Company Name:		
	Atlanta, GA 30339			Address:		Regulatory Agency
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:		
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McDonough Supplemental Sampling Network	Pace Project Manager:	Nicole D'Oleo	State / Location
Requested Due Date:	10 Day TAT	Project #:	GL16684962	Pace Profile #:		GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (use valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Total Metals	Cl, F, SO4, TDS	Radium 226/228	Mg, Na, K	CO3+HCO2	Fe Total, Fe 3+	Residual Chlorine (Y/N)	4832
																Y/N	N	N	N	N	N	N		
1	B-116D	WG	G	9/8/2022	12:42		6	3		3							X	X	X	X	X	X		pH = 5.97, Fe2 = 0.0 mg/L
2	DUP-2	WG	G	9/8/2022	--		6	3		3							X	X	X	X	X	X		
3	B-118	WG	G	9/9/2022	12:00		8	3		5							X	X	X	X	X	X		pH = 6.49, Fe2 = 0.0 mg/L
4																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Mark Maier / Golder	09/09/22	15:50	Charles Starke	9/9/22	1550	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	RMS
Date:	9/20/2022
Worklist:	68887
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2586601
MB concentration:	0.008
MB Counting Uncertainty:	0.047
MB MDC:	0.133
MB Numerical Performance Indicator:	0.32
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS68887	LCSD68887
Count Date:	10/2/2022	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.023	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.505	
Target Conc. (pCi/L, g, F):	4.760	
Uncertainty (Calculated):	0.057	
Result (pCi/L, g, F):	3.993	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.431	
Numerical Performance Indicator:	-3.46	
Percent Recovery:	83.89%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	92624832001	92624832001
Duplicate Sample I.D.	92624832001DUP	92624832002
Sample Result (pCi/L, g, F):	0.124	0.124
Sample Result Counting Uncertainty (pCi/L, g, F):	0.091	0.091
Sample Duplicate Result (pCi/L, g, F):	0.071	0.187
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.074	0.104
Are sample and/or duplicate results below RL?	See Below ##	See Below ##
Duplicate Numerical Performance Indicator:	0.874	-0.888
Duplicate RPD:	53.80%	40.52%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Fail***	Fail***
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

10/3/22

~~***Batch must be re-prepped due to unacceptable precision.~~ N/A

LAM 10/3/22

LAM 10/3/22

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test: Ra-228
Analyst: VAL
Date: 9/19/2022
Worklist: 68888
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2586603
MB concentration:	0.798
M/B 2 Sigma CSU:	0.368
MB MDC:	0.604
MB Numerical Performance Indicator:	4.25
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS68888	LCSD68888
Count Date:	9/28/2022	9/28/2022
Spike I.D.:	22-029	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.913	19.913
Volume Used (mL):	0.20	0.20
Aliquot Volume (L, g, F):	0.808	0.809
Target Conc. (pCi/L, g, F):	4.927	4.925
Uncertainty (Calculated):	0.355	0.355
Result (pCi/L, g, F):	5.626	5.197
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.255	1.158
Numerical Performance Indicator:	1.05	0.44
Percent Recovery:	114.19%	105.52%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.:	LCS68888	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD68888	
Sample Result (pCi/L, g, F):	5.626	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.255	
Sample Duplicate Result (pCi/L, g, F):	5.197	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.158	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.493	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.89%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

September 28, 2022

Andrea McClure
WSP/Golder
5170 Peachtree Road
Building 100, Suite 300
Atlanta, GA 30341

RE: Project: McDonough AP-1,2,3/4 Risk
Pace Project No.: 92625185

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between September 13, 2022 and September 16, 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 - 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
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Stephen Benda, Southern Company
Noelia Gangi, Georgia Power
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Karim Minkara, Golder Associates - Atlanta
J. Shelby Mobley, Southern Company
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Michael Smilley, Georgia Power
Yong Cheng Soo, WSP/Golder
Tina Sullivan, ERM

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: McDonough AP-1,2,3/4 Risk
Pace Project No.: 92625185

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kincey 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 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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: McDonough AP-1,2,3/4 Risk
Pace Project No.: 92625185

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92625185001	**B-79**	Water	09/12/22 10:05	09/13/22 10:30
92625185002	**B-54**	Water	09/13/22 09:40	09/14/22 09:53
92625185003	**B-64**	Water	09/13/22 14:15	09/14/22 09:53
92625185004	**B-78**	Water	09/13/22 14:14	09/14/22 09:53
92625185005	**B-76**	Water	09/13/22 09:54	09/14/22 09:53
92625185006	**B-77**	Water	09/13/22 14:21	09/14/22 09:53
92625185007	**B-63**	Water	09/14/22 12:56	09/15/22 08:20
92625185008	**B-74**	Water	09/14/22 11:02	09/15/22 08:20
92625185009	**B-66**	Water	09/16/22 10:10	09/16/22 16:30
92625185010	**B-88**	Water	09/16/22 10:44	09/16/22 16:30
92625185011	**B-82**	Water	09/16/22 12:15	09/16/22 16:30

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: McDonough AP-1,2,3/4 Risk
Pace Project No.: 92625185

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92625185001	**B-79**	EPA 6020B	CW1	1
92625185002	**B-54**	EPA 6020B	CW1	1
92625185003	**B-64**	EPA 6020B	CW1	1
92625185004	**B-78**	EPA 6020B	CW1	1
92625185005	**B-76**	EPA 6020B	CW1	2
92625185006	**B-77**	EPA 6020B	CW1	2
92625185007	**B-63**	EPA 6020B	CW1	2
92625185008	**B-74**	EPA 6020B	CW1	2
92625185009	**B-66**	EPA 6020B	CW1	2
92625185010	**B-88**	EPA 6020B	CW1	1
92625185011	**B-82**	EPA 6020B	CW1	2

PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-1,2,3/4 Risk
Pace Project No.: 92625185

Sample: B-79 **Lab ID: 92625185001** Collected: 09/12/22 10:05 Received: 09/13/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/19/22 05:42		
pH	**4.92**	Std. Units			1		09/19/22 05:42		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Lithium	**0.0028J**	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 21:03	7439-93-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-1,2,3/4 Risk
Pace Project No.: 92625185

Sample: B-54 **Lab ID: 92625185002** Collected: 09/13/22 09:40 Received: 09/14/22 09:53 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		09/19/22 05:45		
pH	**5.34**	Std. Units			1		09/19/22 05:45		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Lithium	**0.0058J**	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 21:27	7439-93-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-1,2,3/4 Risk
Pace Project No.: 92625185

Sample: B-64 **Lab ID: 92625185003** Collected: 09/13/22 14:15 Received: 09/14/22 09:53 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		09/19/22 05:45		
pH	**5.00**	Std. Units			1		09/19/22 05:45		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Lithium	**0.013J**	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 21:33	7439-93-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-1,2,3/4 Risk
Pace Project No.: 92625185

Sample: B-78 **Lab ID: 92625185004** Collected: 09/13/22 14:14 Received: 09/14/22 09:53 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		09/19/22 05:44		
pH	**4.56**	Std. Units			1		09/19/22 05:44		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Lithium	**0.011J**	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 21:39	7439-93-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-1,2,3/4 Risk
Pace Project No.: 92625185

Sample: B-76 **Lab ID: 92625185005** Collected: 09/13/22 09:54 Received: 09/14/22 09:53 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		09/19/22 05:45		
pH	**6.05**	Std. Units			1		09/19/22 05:45		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Cobalt	**0.21**	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 21:45	7440-48-4	
Lithium	**0.0067J**	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 21:45	7439-93-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-1,2,3/4 Risk
Pace Project No.: 92625185

Sample: B-77 **Lab ID: 92625185006** Collected: 09/13/22 14:21 Received: 09/14/22 09:53 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		09/19/22 05:48		
pH	**6.34**	Std. Units			1		09/19/22 05:48		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Cobalt	ND	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 22:02	7440-48-4	
Lithium	**0.0022J**	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 22:02	7439-93-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-1,2,3/4 Risk
Pace Project No.: 92625185

Sample: B-63 **Lab ID: 92625185007** Collected: 09/14/22 12:56 Received: 09/15/22 08:20 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		09/15/22 17:19		
pH	**5.31**	Std. Units			1		09/15/22 17:19		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Cobalt	**0.043**	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 22:50	7440-48-4	
Lithium	**0.0072J**	mg/L	0.030	0.00073	1	09/26/22 09:44	09/26/22 22:50	7439-93-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-1,2,3/4 Risk
Pace Project No.: 92625185

Sample: B-74 **Lab ID: 92625185008** Collected: 09/14/22 11:02 Received: 09/15/22 08:20 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		09/15/22 17:19		
pH	**6.01**	Std. Units			1		09/15/22 17:19		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.0054**	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 22:56	7440-38-2	
Molybdenum	**0.042**	mg/L	0.010	0.00074	1	09/26/22 09:44	09/26/22 22:56	7439-98-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-1,2,3/4 Risk
Pace Project No.: 92625185

Sample: B-66 **Lab ID: 92625185009** Collected: 09/16/22 10:10 Received: 09/16/22 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/19/22 10:34		
pH	**8.60**	Std. Units			1		09/19/22 10:34		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 23:26	7440-38-2	
Cobalt	**0.012**	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 23:26	7440-48-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-1,2,3/4 Risk
Pace Project No.: 92625185

Sample: B-88 **Lab ID: 92625185010** Collected: 09/16/22 10:44 Received: 09/16/22 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/19/22 10:34		
pH	**5.47**	Std. Units			1		09/19/22 10:34		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Cobalt	**0.0013J**	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 23:32	7440-48-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-1,2,3/4 Risk
Pace Project No.: 92625185

Sample: B-82 **Lab ID: 92625185011** Collected: 09/16/22 12:15 Received: 09/16/22 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/19/22 10:34		
pH	**5.02**	Std. Units			1		09/19/22 10:34		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	0.0022	1	09/26/22 09:44	09/26/22 23:38	7440-38-2	
Cobalt	**0.0018J**	mg/L	0.0050	0.00039	1	09/26/22 09:44	09/26/22 23:38	7440-48-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-1,2,3/4 Risk
Pace Project No.: 92625185

QC Batch: 725627
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92625185001, 92625185002, 92625185003, 92625185004, 92625185005, 92625185006, 92625185007, 92625185008, 92625185009, 92625185010, 92625185011

METHOD BLANK: 3780267 Matrix: Water
Associated Lab Samples: 92625185001, 92625185002, 92625185003, 92625185004, 92625185005, 92625185006, 92625185007, 92625185008, 92625185009, 92625185010, 92625185011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.0022	09/26/22 20:51	
Cobalt	mg/L	ND	0.0050	0.00039	09/26/22 20:51	
Lithium	mg/L	ND	0.030	0.00073	09/26/22 20:51	
Molybdenum	mg/L	ND	0.010	0.00074	09/26/22 20:51	

LABORATORY CONTROL SAMPLE: 3780268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.11	107	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3780269 3780270

Parameter	Units	92625185001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	2	20	
Cobalt	mg/L	0.0036J	0.1	0.1	0.097	0.095	93	91	75-125	2	20	
Lithium	mg/L	0.0028J	0.1	0.1	0.11	0.11	106	102	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	103	75-125	0	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: McDonough AP-1,2,3/4 Risk
Pace Project No.: 92625185

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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-1,2,3/4 Risk
Pace Project No.: 92625185

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92625185001	**B-79**				
92625185002	**B-54**				
92625185003	**B-64**				
92625185004	**B-78**				
92625185005	**B-76**				
92625185006	**B-77**				
92625185007	**B-63**				
92625185008	**B-74**				
92625185009	**B-66**				
92625185010	**B-88**				
92625185011	**B-82**				
92625185001	**B-79**	EPA 3005A	725627	EPA 6020B	725817
92625185002	**B-54**	EPA 3005A	725627	EPA 6020B	725817
92625185003	**B-64**	EPA 3005A	725627	EPA 6020B	725817
92625185004	**B-78**	EPA 3005A	725627	EPA 6020B	725817
92625185005	**B-76**	EPA 3005A	725627	EPA 6020B	725817
92625185006	**B-77**	EPA 3005A	725627	EPA 6020B	725817
92625185007	**B-63**	EPA 3005A	725627	EPA 6020B	725817
92625185008	**B-74**	EPA 3005A	725627	EPA 6020B	725817
92625185009	**B-66**	EPA 3005A	725627	EPA 6020B	725817
92625185010	**B-88**	EPA 3005A	725627	EPA 6020B	725817
92625185011	**B-82**	EPA 3005A	725627	EPA 6020B	725817

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Me[illegible] ☐ Atlanta ☑ Kernersville ☐

WO# : 92625185

92625185

Sample Condition Upon Receipt

Client Name: Georgia Power **Project #:**

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 09/13/22 JM

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.9 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 1.9

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4. 10 DAY TAT
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

WO#: 92625185

PM: NMG Due Date: 09/27/22

CLIENT: GA-GA Power

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1						✓																							
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scainvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Golder	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McDonough AP-1, AP-2, AP-3/4 Risk Assessment	Pace Project Manager:	Nicole D'Olio
Requested Due Date:	10 Day TAT	Project #:	GL166849622	Pace Profile #:	

Regulatory Agency	
State / Location	GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Analyses Test: Lithium	Residual Chlorine (Y/N)	
1	B-79	WG	G	9/12/2022	10:05		1			1						Y	X		pH = 4.92
2																N			
3																			
4																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[illegible]/sample	9/13/22	8:05	[illegible] BAH	9-13-22	8:10				
				[illegible]	9/13/22	1036				

JOE WAGESPACK DATE Signed: 9/13/22

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: 5185

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/14/22 DM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.2 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.2

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WW				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1						1																							
2						1																							
3						1																							
4						1																							
5						1																							
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples						
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

Pace Analytical

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 Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scainvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Golder	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McD AP-1, AP-2 and 3/4 Risk Assessment	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	10 Day TAT	Project #:	GL166849822	Pace Profile #:	

Regulatory Agency
State / Location
GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (use valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N): Analyses Test Y/N	Lithium	Cobalt	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS															N	N			
1	B-54	WG	G	9/13/2022	9:40		1			1							X			pH = 5.34
2	B-64	WG	G	9/13/2022	14:15		1			1							X			pH = 5.00
3	B-76	WG	G	9/13/2022	9:54		1			1							X	X		pH = 6.05
4	B-77	WG	G	9/13/2022	14:21		1			1							X	X		pH = 6.34
5	B-78	WG	G	9/13/2022	14:14		1			1							X			pH = 4.56
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	JW / Sampler	9-14-22	8:53	[illegible] 8534	9/14/22	8:53	
				[illegible]	9/14/22	0945	

SAMPLE CONDITIONS			
TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

JUDE NAGUESPACK DATE Signed: 9-14-22

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 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: GA Power Proj

WO# : 92625185
PM: NMG Due Date: 09/27/22
CLIENT: GA-GA Power

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/15/22 CDB

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230 ☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 3.8 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): 3.8

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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace Analytical	Document Name: Bottle Identification Form (BIF)	Document Issued: November 15, 2021
		Page 1 of 1
	Document No.: F-CAR-CS-043-Rev.01	Issuing Authority: Pace Carolinas Quality Office

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

Project

WO# : 92625185

PM: NMG Due Date: 09/27/22

CLIENT: GA-GA Power

Matrix	Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
	1						✓																						
	2						1																						
	3																												
	4																												
	5																												
	6																												
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	9																												
	10																												
	11																												
	12																												

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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 Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	acsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Golder	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	lgucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McD AP-1, 2, 3/4 Risk Assessment Network	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	10 Day TAT	Project #:	GL165849522	Pace Profile #:	

Regulatory Agency	
State / Location	GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): Cobalt N	Lithium N	Arsenic N	Molybdenum N	Residual Chlorine (Y/N)	92625185
1	B-63	WG	G	9/14/2022	12:56		1			1							X	X				pH = 5.31 007
2	B-74	WG	G	9/14/2022	11:02		1			1									X	X		pH = 6.01 008
3																						
4																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		09/15/22	08:20	BATH	9-15-22	8:20				
					09/15/22	0945				

DIANE FULTON / USA-GOLDER

DATE Signed: 09/15/22

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project

WO#: 92625185

PM: NMG **Due Date: 09/27/22**

CLIENT: GA-GA Power

Courier: ☑ Commercial ☐ Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/17/22 JM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.3 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.3

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

WO#: 92625185

PM: NMG Due Date: 09/27/22

CLIENT: GA-GA Power

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BPIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1 ✓																			2				
2		2	1			1 ✓																			2				
3		2	1			1 ✓																			2				
4																													
5																													
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11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company	Georgia Power - Coal Combustion Residuals	Report To	Lauren Coker	Attention	scsinvoices@southernco.com
Address	2480 Maner Road	Copy To	Golder	Company Name	
	Atlanta, GA 30339			Address	
Email	laucoker@southernco.com	Purchase Order #		Pace Quote	
Phone	(470) 520-6176 Fax	Project Name	Plant McD AP-1 2 3/4 Risk Assesment	Pace Project Manager	Nicole D'Oleo
Requested Due Date	10 Day TAT	Project #	GL166849622	Pace Profile #	

Regulatory Agency	
State / Location	GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (use valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test: Y/N	Requested Analysis Filtered (Y/N): Arsenic	Cobalt	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																N	N		
1	B-66	WG	G	9/16/2022	10:10		1			1							X	X		pH = 8.60
2	B-68	WG	G	9/16/2022	10:44		1			1								X		pH = 5.47
3	B-82	WG	G	9/16/2022	12:15		1			1							X	X		pH = 5.02
4																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Mark McAfee Golder	09/16/22	16:25	[signature]	9/16/	16:30	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

November 01, 2022

Andrea McClure
WSP/Golder
5170 Peachtree Road
Building 100, Suite 300
Atlanta, GA 30341

RE: Project: McDonough AP-1234 Risk Assess.-Revised Report
Pace Project No.: 92624830

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory on September 09, 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 - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

Revision 1: Issued on 11/1/22 to update project name, per client request.

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

Sincerely,

Nicole D'Oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Stephen Benda, Southern Company
Noelia Gangi, Georgia Power
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Karim Minkara, Golder Associates - Atlanta
J. Shelby Mobley, Southern Company
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Michael Smilley, Georgia Power
Yong Cheng Soo, WSP/Golder
Tina Sullivan, ERM

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: McDonough AP-1234 Risk Assess.-Revised Report
Pace Project No.: 92624830

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kincey 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 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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: McDonough AP-1234 Risk Assess.-Revised Report
Pace Project No.: 92624830

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92624830001	**B-73**	Water	09/08/22 14:55	09/09/22 15:50
92624830002	**B-62**	Water	09/09/22 11:25	09/09/22 15:50
92624830003	**B-68**	Water	09/09/22 10:44	09/09/22 15:50

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: McDonough AP-1234 Risk Assess.-Revised Report
Pace Project No.: 92624830

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92624830001	**B-73**	EPA 6020B	CW1	1
92624830002	**B-62**	EPA 6020B	CW1	1
92624830003	**B-68**	EPA 6020B	CW1	2

PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-1234 Risk Assess.-Revised Report
Pace Project No.: 92624830

Sample: B-73 **Lab ID: 92624830001** Collected: 09/08/22 14:55 Received: 09/09/22 15:50 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		09/09/22 17:46		
pH	**6.63**	Std. Units			1		09/09/22 17:46		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.019**	mg/L	0.0050	0.0022	1	09/21/22 17:50	09/22/22 19:50	7440-38-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-1234 Risk Assess.-Revised Report
Pace Project No.: 92624830

Sample: B-62 **Lab ID: 92624830002** Collected: 09/09/22 11:25 Received: 09/09/22 15:50 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		09/09/22 17:47		
pH	**6.22**	Std. Units			1		09/09/22 17:47		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Cobalt	ND	mg/L	0.0050	0.00039	1	09/21/22 17:50	09/22/22 19:56	7440-48-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough AP-1234 Risk Assess.-Revised Report
Pace Project No.: 92624830

Sample: B-68 **Lab ID: 92624830003** Collected: 09/09/22 10:44 Received: 09/09/22 15:50 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		09/09/22 17:47		
pH	**6.64**	Std. Units			1		09/09/22 17:47		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.51**	mg/L	0.0050	0.0022	1	09/21/22 17:50	09/22/22 20:02	7440-38-2	
Molybdenum	**0.17**	mg/L	0.010	0.00074	1	09/21/22 17:50	09/22/22 20:02	7439-98-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough AP-1234 Risk Assess.-Revised Report
Pace Project No.: 92624830

QC Batch: 724857
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92624830001, 92624830002, 92624830003

METHOD BLANK: 3776475 Matrix: Water
Associated Lab Samples: 92624830001, 92624830002, 92624830003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.0022	09/22/22 16:16	
Cobalt	mg/L	ND	0.0050	0.00039	09/22/22 16:16	
Molybdenum	mg/L	ND	0.010	0.00074	09/22/22 16:16	

LABORATORY CONTROL SAMPLE: 3776476

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3776477 3776478

Parameter	Units	92622406010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.093	0.098	93	98	75-125	5	20	
Cobalt	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20	
Molybdenum	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: McDonough AP-1234 Risk Assess.-Revised Report
Pace Project No.: 92624830

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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-1234 Risk Assess.-Revised Report
Pace Project No.: 92624830

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92624830001	**B-73**				
92624830002	**B-62**				
92624830003	**B-68**				
92624830001	**B-73**	EPA 3005A	724857	EPA 6020B	724980
92624830002	**B-62**	EPA 3005A	724857	EPA 6020B	724980
92624830003	**B-68**	EPA 3005A	724857	EPA 6020B	724980

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 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# : 92624830

92624830

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/9/22 JM

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.4 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): 2.4

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
~~-Pace Containers Used?~~	~~☐ Yes~~	~~☐ No~~	~~☐ N/A~~	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Project # **WO#: 92624830**

PM: NMG Due Date: 09/23/22

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1						1 ✓																						
2						1 ✓																						
3						1 ✓																						
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A — Required Client Information:

Company:	Georgia Power - Coal Combustion Residuals
Address:	2480 Maner Road
	Atlanta, GA 30339
Email:	laucoker@southernco.com
Phone:	(470) 620-6176 Fax:
Requested Due Date:	10 Day TAT

Section B — Required Project Information:

Report To:	Lauren Coker
Copy To:	Golder
Purchase Order #:	
Project Name:	Plant McDonough AP-1234 Risk Assessment
Project #:	GL16684962:

Section C — Invoice Information:

Attention:	scsinvoices@southernco.com
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	

Regulatory Agency:

State / Location: GA

SAMPLE ID — One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved - Ice	HNO3 + Ice	Analyses Test (Y/N)	Arsenic (N)	Cobalt (N)	Molybdenum (N)	(N)	(N)	(N)	Residual Chlorine (Y/N)	4830
1	B-73	WG	G	9/8/2022	14:55		1		1		X							pH = 6.63
2	B-62	WG	G	9/9/2022	11:25		1		1			X						pH = 6.22
3	B-68	WG	G	9/9/2022	10:44		1		1		X		X					pH = 6.64
4																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Mark Monn / Golder	09/09/22	15:50	[signature]	9/9/22	1550	

DATE Signed:

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

October 05, 2022

Andrea McClure
WSP/Golder
5170 Peachtree Road
Building 100, Suite 300
Atlanta, GA 30341

RE: Project: McDonough Surface Water-Revised Report
Pace Project No.: 92624825

Dear Andrea McClure:

Enclosed are the analytical results for sample(s) received by the laboratory between September 09, 2022 and September 14, 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 - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

Revision 1: Issued on 10/5/22 to include the SCUR and COC for SW-4.

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

Sincerely,

Nicole D'Oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Stephen Benda, Southern Company
Noelia Gangi, Georgia Power
Daniela Herrera, Golder
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Karim Minkara, Golder Associates - Atlanta
J. Shelby Mobley, Southern Company
Charles Norton, Southern Company
Ms. Lauren Petty, Southern Company
Dawn Prell, Golder Associates Inc.
Michael Smilley, Georgia Power
Yong Cheng Soo, WSP/Golder

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

cc: Tina Sullivan, ERM

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: McDonough Surface Water-Revised Report
Pace Project No.: 92624825

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kincey 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 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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: McDonough Surface Water-Revised Report
Pace Project No.: 92624825

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92624825001	**SW-1**	Water	09/08/22 14:47	09/09/22 15:50
92624825002	**SW-2**	Water	09/08/22 15:23	09/09/22 15:50
92624825003	**SW-3**	Water	09/08/22 15:43	09/09/22 15:50
92624825004	**SW-4**	Water	09/13/22 09:15	09/14/22 09:53

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: McDonough Surface Water-Revised Report
Pace Project No.: 92624825

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92624825001	**SW-1**	EPA 6020B	CW1	1
92624825002	**SW-2**	EPA 6020B	CW1	1
92624825003	**SW-3**	EPA 6020B	CW1	1
92624825004	**SW-4**	EPA 6020B	CW1	1

PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough Surface Water-Revised Report
Pace Project No.: 92624825

Sample: SW-1 **Lab ID: 92624825001** Collected: 09/08/22 14:47 Received: 09/09/22 15:50 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		09/09/22 17:37		
pH	**6.70**	Std. Units			1		09/09/22 17:37		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**0.54**	mg/L	0.040	0.0086	1	09/22/22 18:15	09/24/22 19:18	7440-42-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough Surface Water-Revised Report
Pace Project No.: 92624825

Sample: SW-2 **Lab ID: 92624825002** Collected: 09/08/22 15:23 Received: 09/09/22 15:50 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		09/09/22 17:37		
pH	**7.10**	Std. Units			1		09/09/22 17:37		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**0.077**	mg/L	0.040	0.0086	1	09/22/22 18:15	09/24/22 19:24	7440-42-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough Surface Water-Revised Report
Pace Project No.: 92624825

Sample: SW-3 **Lab ID: 92624825003** Collected: 09/08/22 15:43 Received: 09/09/22 15:50 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		09/09/22 17:38		
pH	**7.13**	Std. Units			1		09/09/22 17:38		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**0.18**	mg/L	0.040	0.0086	1	09/22/22 18:15	09/24/22 19:30	7440-42-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: McDonough Surface Water-Revised Report
Pace Project No.: 92624825

Sample: SW-4 **Lab ID: 92624825004** Collected: 09/13/22 09:15 Received: 09/14/22 09:53 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		09/14/22 14:42		
pH	**6.61**	Std. Units			1		09/14/22 14:42		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**0.61**	mg/L	0.20	0.043	5	09/22/22 18:15	09/26/22 14:37	7440-42-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: McDonough Surface Water-Revised Report
Pace Project No.: 92624825

QC Batch: 725176
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92624825001, 92624825002, 92624825003, 92624825004

METHOD BLANK: 3778147 Matrix: Water
Associated Lab Samples: 92624825001, 92624825002, 92624825003, 92624825004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	0.0086	09/24/22 17:31	

LABORATORY CONTROL SAMPLE: 3778148

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.1	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3778149 3778150

Parameter	Units	92624372001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	3.3	1	1	4.3	4.4	96	108	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: McDonough Surface Water-Revised Report
Pace Project No.: 92624825

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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough Surface Water-Revised Report
Pace Project No.: 92624825

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92624825001	**SW-1**				
92624825002	**SW-2**				
92624825003	**SW-3**				
92624825004	**SW-4**				
92624825001	**SW-1**	EPA 3005A	725176	EPA 6020B	725367
92624825002	**SW-2**	EPA 3005A	725176	EPA 6020B	725367
92624825003	**SW-3**	EPA 3005A	725176	EPA 6020B	725367
92624825004	**SW-4**	EPA 3005A	725176	EPA 6020B	725367

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 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# : 92624825

92624825

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/9/22

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A JM

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.4 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.4

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☐ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

WO# : 92624825

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

PM: NMG Due Date: 09/23/22

CLIENT: GA-GA Power

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGBU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

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 Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Joju Abraham	Attention: scsinvoices@southernco.com
Address: 2480 Maner Road Atlanta, GA 30339	Copy To: Golder	Company Name:
Email: jabraham@southernco.com	Purchase Order #:	Address:
Phone: (404) 506-7239 Fax:	Project Name: Plant McDonough Surface Water Sampling	Pace Quote:
Requested Due Date: 10 Day TAT	Project #: GL168849622	Pace Project Manager: Nicole D'Oleo
		Pace Profile #:

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N): Y/N	Analyses Test: Boron	Residual Chlorine (Y/N)	4825
1	SW-1	WS	G	9/8/2022	14:47		1			1						N	X		pH = 6.70
2	SW-2	WS	G	9/8/2022	15:23		1			1						N	X		pH= 7.10
3	SW-3	WS	G	9/8/2022	15:43		1			1						N	X		pH = 7.13
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14																			

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	M. Main Golder	9/9/22	15:50	Charles Hunt	9/9/22	1550	

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project **WO# : 92624825**

PM: NMG **Due Date: 09/23/22**

CLIENT: GA-GA Power

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/14/22 PM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.2 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.2

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WW	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

WO#: 92624825

Projec

PM: NMG Due Date: 09/23/22

CLIENT: GA-GA Power

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A — Required Client Information:

Company: Georgia Power - Coal Combustion Residuals
Address: 2480 Maner Road, Atlanta, GA 30339
Email: laucoker@southernco.com
Phone: (470) 620-6176 Fax:
Requested Due Date: 10 Day TAT

Section B — Required Project Information:

Report To: Lauren Coker
Copy To: Golder
Purchase Order #:
Project Name: Plant McDonough Surface Water
Project #: GL166849622

Section C — Invoice Information:

Attention: scsinvoices@southernco.com
Company Name:
Address:
Pace Quote:
Pace Project Manager: Nicole D'Oleo
Pace Profile #:

Regulatory Agency:
State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test: Y/N	Requested Analysis Filtered (Y/N): N	Boron	Residual Chlorine (Y/N)	
1	SW-4	WG	G	9/13/2022	9:15		1			1								X		pH = 6.81
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
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14																				

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Solid/Soil SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	JW / sampler	9-14-22	8:53	[signature] - 834	9/14/22	8:53	
				[signature]	9/14/22	0915	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jude Waguespack
SIGNATURE of SAMPLER: [signature]
DATE Signed: 9-14-22

SAMPLE CONDITIONS: TEMP in C; Received on Ice (Y/N); Custody Sealed Cooler (Y/N); Samples Intact (Y/N)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

November 03, 2022

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633523

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on October 28, 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 - 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
Allison Keefer, Southern Company
Laura Midkiff, Georgia Power
Tina Sullivan, ERM

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633523

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633523

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92633523001	**DW_DS**	Water	10/27/22 11:55	10/28/22 09:50
92633523002	**DW_US**	Water	10/27/22 12:03	10/28/22 09:50
92633523003	**CR-0.2**	Water	10/27/22 12:10	10/28/22 09:50
92633523004	**CR-0.5**	Water	10/27/22 12:19	10/28/22 09:50

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633523

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92633523001	**DW_DS**	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92633523002	**DW_US**	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92633523003	**CR-0.2**	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92633523004	**CR-0.5**	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633523

Sample: DW_DS **Lab ID: 92633523001** Collected: 10/27/22 11:55 Received: 10/28/22 09:50 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	**7.3**	mg/L	0.20	1	10/31/22 10:32	10/31/22 16:27	7440-09-7	
Sodium	**29.4**	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:27	7440-23-5	
Calcium	**14.4**	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:27	7440-70-2	
Magnesium	**4.0**	mg/L	0.050	1	10/31/22 10:32	10/31/22 16:27	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Boron	**0.070**	mg/L	0.040	1	10/31/22 10:06	10/31/22 20:34	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	10/31/22 10:06	10/31/22 20:34	7440-48-4	
Lithium	ND	mg/L	0.030	1	10/31/22 10:06	10/31/22 20:34	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**52.0**	mg/L	25.0	1		11/01/22 16:09		MW
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**39.3**	mg/L	5.0	1		11/01/22 12:50		
Alkalinity, Total as CaCO3	**39.3**	mg/L	5.0	1		11/01/22 12:50		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**25.6**	mg/L	1.0	1		10/31/22 05:56	16887-00-6	
Fluoride	**0.36**	mg/L	0.10	1		10/31/22 05:56	16984-48-8	
Sulfate	**36.4**	mg/L	1.0	1		10/31/22 05:56	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633523

Sample: DW_US **Lab ID: 92633523002** Collected: 10/27/22 12:03 Received: 10/28/22 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Potassium	**4.1**	mg/L	0.20	1	10/31/22 10:32	10/31/22 16:31	7440-09-7	
Sodium	**12.2**	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:31	7440-23-5	
Calcium	**7.6**	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:31	7440-70-2	
Magnesium	**2.2**	mg/L	0.050	1	10/31/22 10:32	10/31/22 16:31	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	10/31/22 10:06	10/31/22 20:40	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	10/31/22 10:06	10/31/22 20:40	7440-48-4	
Lithium	ND	mg/L	0.030	1	10/31/22 10:06	10/31/22 20:40	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**67.0**	mg/L	25.0	1		11/01/22 16:09		MW
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**26.7**	mg/L	5.0	1		11/01/22 16:17		
Alkalinity, Total as CaCO3	**26.7**	mg/L	5.0	1		11/01/22 16:17		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**12.0**	mg/L	1.0	1		10/31/22 06:12	16887-00-6	
Fluoride	**0.17**	mg/L	0.10	1		10/31/22 06:12	16984-48-8	
Sulfate	**7.0**	mg/L	1.0	1		10/31/22 06:12	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633523

Sample: CR-0.2 **Lab ID: 92633523003** Collected: 10/27/22 12:10 Received: 10/28/22 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Potassium	**4.2**	mg/L	0.20	1	10/31/22 10:32	10/31/22 16:46	7440-09-7	
Sodium	**12.5**	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:46	7440-23-5	
Calcium	**7.7**	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:46	7440-70-2	
Magnesium	**2.3**	mg/L	0.050	1	10/31/22 10:32	10/31/22 16:46	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Boron	**0.046**	mg/L	0.040	1	10/31/22 13:30	11/01/22 13:51	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	10/31/22 13:30	11/01/22 13:51	7440-48-4	
Lithium	ND	mg/L	0.030	1	10/31/22 13:30	11/01/22 13:51	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**104**	mg/L	25.0	1		11/01/22 16:09		MW
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**27.4**	mg/L	5.0	1		11/01/22 16:23		
Alkalinity, Total as CaCO3	**27.4**	mg/L	5.0	1		11/01/22 16:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**12.3**	mg/L	1.0	1		10/31/22 06:59	16887-00-6	
Fluoride	**0.18**	mg/L	0.10	1		10/31/22 06:59	16984-48-8	
Sulfate	**7.1**	mg/L	1.0	1		10/31/22 06:59	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633523

Sample: CR-0.5 **Lab ID: 92633523004** Collected: 10/27/22 12:19 Received: 10/28/22 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Potassium	**4.3**	mg/L	0.20	1	10/31/22 10:32	10/31/22 16:51	7440-09-7	
Sodium	**12.8**	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:51	7440-23-5	
Calcium	**7.9**	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:51	7440-70-2	
Magnesium	**2.3**	mg/L	0.050	1	10/31/22 10:32	10/31/22 16:51	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Boron	**0.048**	mg/L	0.040	1	10/31/22 13:30	11/01/22 14:15	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	10/31/22 13:30	11/01/22 14:15	7440-48-4	
Lithium	ND	mg/L	0.030	1	10/31/22 13:30	11/01/22 14:15	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**75.0**	mg/L	25.0	1		11/01/22 16:09		MW
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**27.2**	mg/L	5.0	1		11/01/22 16:29		
Alkalinity, Total as CaCO3	**27.2**	mg/L	5.0	1		11/01/22 16:29		
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	1		10/31/22 07:15	16887-00-6	
Fluoride	**0.17**	mg/L	0.10	1		10/31/22 07:15	16984-48-8	
Sulfate	**7.3**	mg/L	1.0	1		10/31/22 07:15	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633523

QC Batch: 733725
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92633523001, 92633523002, 92633523003, 92633523004

METHOD BLANK: 3818800 Matrix: Water
Associated Lab Samples: 92633523001, 92633523002, 92633523003, 92633523004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	10/31/22 14:27	
Magnesium	mg/L	ND	0.050	10/31/22 14:27	
Potassium	mg/L	ND	0.20	10/31/22 14:27	
Sodium	mg/L	ND	1.0	10/31/22 14:27	

LABORATORY CONTROL SAMPLE: 3818801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	105	80-120	
Magnesium	mg/L	1	1.0	103	80-120	
Potassium	mg/L	1	1.0	102	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3818802 3818803

Parameter	Units	92633366005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	114000 ug/L	1	1	116	118	196	385	75-125	2	20	M1
Magnesium	mg/L	27400 ug/L	1	1	28.8	29.3	138	185	75-125	2	20	M1
Potassium	mg/L	36900 ug/L	1	1	38.3	39.1	143	222	75-125	2	20	M1
Sodium	mg/L	266000 ug/L	1	1	270	275	337	867	75-125	2	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633523

QC Batch: 733721
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92633523001, 92633523002

METHOD BLANK: 3818794 Matrix: Water
Associated Lab Samples: 92633523001, 92633523002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	10/31/22 17:53	
Cobalt	mg/L	ND	0.0050	10/31/22 17:53	
Lithium	mg/L	ND	0.030	10/31/22 17:53	

LABORATORY CONTROL SAMPLE: 3818795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.1	108	80-120	
Cobalt	mg/L	0.1	0.11	105	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3818796 3818797

Parameter	Units	92633223001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	24.7J ug/L	1	1	1.1	1.1	105	108	75-125	3	20	
Cobalt	mg/L	6.9J ug/L	0.1	0.1	0.11	0.11	104	101	75-125	3	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	101	104	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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(770)734-4200

QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633523

QC Batch: 733760
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92633523003, 92633523004

METHOD BLANK: 3818985 Matrix: Water
Associated Lab Samples: 92633523003, 92633523004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	11/01/22 13:39	
Cobalt	mg/L	ND	0.0050	11/01/22 13:39	
Lithium	mg/L	ND	0.030	11/01/22 13:39	

LABORATORY CONTROL SAMPLE: 3818986

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.1	112	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.11	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3818987 3818988

Parameter	Units	92633523003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.046	1	1	1.2	1.2	110	111	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.098	0.10	98	103	75-125	4	20	
Lithium	mg/L	ND	0.1	0.1	0.11	0.11	112	110	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633523

QC Batch: 734041 | 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: 92633523001, 92633523002, 92633523003, 92633523004

METHOD BLANK: 3820511 Matrix: Water
Associated Lab Samples: 92633523001, 92633523002, 92633523003, 92633523004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	11/01/22 16:09	

LABORATORY CONTROL SAMPLE: 3820512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	379	95	80-120	

SAMPLE DUPLICATE: 3820513

Parameter	Units	92632809001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2370	2160	9	10	

SAMPLE DUPLICATE: 3820514

Parameter	Units	92633519004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	167	74.0	77	10	D6,MW

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633523

QC Batch: 733493
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92633523001

METHOD BLANK: 3817756 Matrix: Water
Associated Lab Samples: 92633523001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	11/01/22 11:33	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	11/01/22 11:33	

LABORATORY CONTROL SAMPLE: 3817757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	55.0	110	80-120	

LABORATORY CONTROL SAMPLE: 3817758

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3817759 3817760

Parameter	Units	92633455004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	34.3	50	50	84.9	84.0	101	99	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3817761 3817762

Parameter	Units	92633455005 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	198	50	50	245	260	94	125	80-120	6	25	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633523

QC Batch: 733984
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92633523002, 92633523003, 92633523004

METHOD BLANK: 3820179 Matrix: Water
Associated Lab Samples: 92633523002, 92633523003, 92633523004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	11/01/22 15:46	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	11/01/22 15:46	

LABORATORY CONTROL SAMPLE: 3820180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

LABORATORY CONTROL SAMPLE: 3820181

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.4	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3820182 3820183

Parameter	Units	92633778001 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	58.6	50	50	109	108	101	98	80-120	1	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633523

QC Batch: 733691
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92633523001, 92633523002, 92633523003, 92633523004

METHOD BLANK: 3818694 Matrix: Water
Associated Lab Samples: 92633523001, 92633523002, 92633523003, 92633523004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	10/31/22 01:59	
Fluoride	mg/L	ND	0.10	10/31/22 01:59	
Sulfate	mg/L	ND	1.0	10/31/22 01:59	

LABORATORY CONTROL SAMPLE: 3818695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.1	100	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	50.4	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3818696 3818697

Parameter	Units	92633612001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.1	50	50	50.5	50.2	99	98	90-110	1	10	
Fluoride	mg/L	0.14	2.5	2.5	2.7	2.6	101	100	90-110	0	10	
Sulfate	mg/L	ND	50	50	49.9	49.5	98	98	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3818698 3818699

Parameter	Units	92633523002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	12.0	50	50	61.7	61.4	100	99	90-110	1	10	
Fluoride	mg/L	0.17	2.5	2.5	2.7	2.7	101	101	90-110	0	10	
Sulfate	mg/L	7.0	50	50	57.2	56.9	100	100	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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(770)734-4200

QUALIFIERS

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633523

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.
MW	Due to matrix interference, achieving a constant weight is not possible.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633523

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92633523001	**DW_DS**	EPA 3010A	733725	EPA 6010D	733811
92633523002	**DW_US**	EPA 3010A	733725	EPA 6010D	733811
92633523003	**CR-0.2**	EPA 3010A	733725	EPA 6010D	733811
92633523004	**CR-0.5**	EPA 3010A	733725	EPA 6010D	733811
92633523001	**DW_DS**	EPA 3005A	733721	EPA 6020B	733812
92633523002	**DW_US**	EPA 3005A	733721	EPA 6020B	733812
92633523003	**CR-0.2**	EPA 3005A	733760	EPA 6020B	733874
92633523004	**CR-0.5**	EPA 3005A	733760	EPA 6020B	733874
92633523001	**DW_DS**	SM 2540C-2015	734041		
92633523002	**DW_US**	SM 2540C-2015	734041		
92633523003	**CR-0.2**	SM 2540C-2015	734041		
92633523004	**CR-0.5**	SM 2540C-2015	734041		
92633523001	**DW_DS**	SM 2320B-2011	733493		
92633523002	**DW_US**	SM 2320B-2011	733984		
92633523003	**CR-0.2**	SM 2320B-2011	733984		
92633523004	**CR-0.5**	SM 2320B-2011	733984		
92633523001	**DW_DS**	EPA 300.0 Rev 2.1 1993	733691		
92633523002	**DW_US**	EPA 300.0 Rev 2.1 1993	733691		
92633523003	**CR-0.2**	EPA 300.0 Rev 2.1 1993	733691		
92633523004	**CR-0.5**	EPA 300.0 Rev 2.1 1993	733691		

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 — Required Client Information:

Company:	ARCADIS - Atlanta
Address:	2839 Paces Ferry Rd
	Atlanta, GA 30339
Email:	warren.johnson@arcadis.com
Phone:	678.485.5298 Fax:
Requested Due Date:	5 day TAT

Section B — Required Project Information:

Report To:	Joju Abraham, Allison Keefer, Ben Hodges
Copy To:	Warren Johnson
Purchase Order #:	SCS10382775
Project Name:	Plant McDonough
Project #:	

Section C — Invoice Information:

Attention:	Joju Abraham
Company Name:	GPC
Address:	
Pace Quote:	
Pace Project Manager:	Mayia.Parks@pacelabs.com,
Pace Profile #:	2239

Regulatory Agency

WO# : 92633523

92633523

Requested Analy

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	CCR App III[1]	Major Ions[2]	Arsenic (As)	Cobalt (Co)	Lithium (Li)	Molybdenum (Mo)	Residual Chlorine (Y/N)
1	DW_DS	WS	G	10/27/2022	1155														X	X		X	X		
2	DW_US	WS	G	10/27/2022	1263														X	X		X	X		
3	CR-0.2	WS	G	10/27/2022	1210														X	X		X	X		
4	CR-0.5	WS	G	10/27/2022	1219														X	X		X	X		
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
CCR App III[1] - Boron (B), Calcium(Ca), Chloride (Cl), Floride (F), Sulfate, Total Dissolved Solids	/Arcadis	10/28/22	0950		10/28/22	0950	
Major Ions - Magnesium (Mg), Sodium (Na), Potassium (K), Total Alkalinity, Bicarbonate Alkalinity							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Garrett Grabowski 10/28

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Arcadis

Project #: WO# : 92633523

PM: MP Due Date: 11/04/22

CLIENT: GA-ArcadAtl

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☐ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 10/28/22 EJ

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp: 3.3 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.3

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☐ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

*****Check all unpreserved Nitrates for chlorine**

Project # **WO# : 92633523**

PM: MP **Due Date: 11/04/22**

CLIENT: GA-ArcadAtl

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																							
2		2	1			1																							
3		2	1			1																							
4		2	1			1																							
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

November 03, 2022

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633519

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on October 28, 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 - 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
Allison Keefer, Southern Company
Laura Midkiff, Georgia Power
Tina Sullivan, ERM

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633519

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633519

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92633519001	**UT01_US**	Water	10/27/22 09:58	10/28/22 09:50
92633519002	**UT02**	Water	10/27/22 10:25	10/28/22 09:50
92633519003	**UT03**	Water	10/27/22 10:13	10/28/22 09:50
92633519004	**UT01_DS**	Water	10/27/22 10:35	10/28/22 09:50
92633519005	**CR-0.1**	Water	10/27/22 11:50	10/28/22 09:50
92633519006	**CR+0.2**	Water	10/27/22 11:38	10/28/22 09:50
92633519007	**CR+0.4**	Water	10/27/22 11:30	10/28/22 09:50

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633519

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92633519001	**UT01_US**	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92633519002	**UT02**	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92633519003	**UT03**	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92633519004	**UT01_DS**	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92633519005	**CR-0.1**	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92633519006	**CR+0.2**	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92633519007	**CR+0.4**	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	5	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633519

Sample: UT01_US **Lab ID: 92633519001** Collected: 10/27/22 09:58 Received: 10/28/22 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Potassium	**3.6**	mg/L	0.20	1	10/31/22 10:32	10/31/22 15:53	7440-09-7	
Sodium	**11.9**	mg/L	1.0	1	10/31/22 10:32	10/31/22 15:53	7440-23-5	
Calcium	**14.2**	mg/L	1.0	1	10/31/22 10:32	10/31/22 15:53	7440-70-2	
Magnesium	**2.7**	mg/L	0.050	1	10/31/22 10:32	10/31/22 15:53	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/L	0.0050	1	10/31/22 10:06	10/31/22 19:40	7440-38-2	
Boron	**0.059**	mg/L	0.040	1	10/31/22 10:06	10/31/22 19:40	7440-42-8	
Molybdenum	ND	mg/L	0.010	1	10/31/22 10:06	10/31/22 19:40	7439-98-7	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**51.0**	mg/L	25.0	1		11/01/22 16:09		MW
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**40.5**	mg/L	5.0	1		11/01/22 11:53		
Alkalinity, Total as CaCO3	**40.5**	mg/L	5.0	1		11/01/22 11:53		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**11.8**	mg/L	1.0	1		10/31/22 03:34	16887-00-6	
Fluoride	**0.30**	mg/L	0.10	1		10/31/22 03:34	16984-48-8	
Sulfate	**11.9**	mg/L	1.0	1		10/31/22 03:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633519

Sample: UT02 **Lab ID: 92633519002** Collected: 10/27/22 10:25 Received: 10/28/22 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Potassium	**3.6**	mg/L	0.20	1	10/31/22 10:32	10/31/22 15:58	7440-09-7	
Sodium	**12.2**	mg/L	1.0	1	10/31/22 10:32	10/31/22 15:58	7440-23-5	
Calcium	**15.2**	mg/L	1.0	1	10/31/22 10:32	10/31/22 15:58	7440-70-2	
Magnesium	**2.8**	mg/L	0.050	1	10/31/22 10:32	10/31/22 15:58	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/L	0.0050	1	10/31/22 10:06	10/31/22 19:46	7440-38-2	
Boron	**0.092**	mg/L	0.040	1	10/31/22 10:06	10/31/22 19:46	7440-42-8	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**116**	mg/L	25.0	1		11/01/22 16:09		MW
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**42.7**	mg/L	5.0	1		11/01/22 11:59		
Alkalinity, Total as CaCO3	**42.7**	mg/L	5.0	1		11/01/22 11:59		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**11.6**	mg/L	1.0	1		10/31/22 03:49	16887-00-6	
Fluoride	**0.28**	mg/L	0.10	1		10/31/22 03:49	16984-48-8	
Sulfate	**13.6**	mg/L	1.0	1		10/31/22 03:49	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633519

Sample: UT03 **Lab ID: 92633519003** Collected: 10/27/22 10:13 Received: 10/28/22 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Potassium	**3.6**	mg/L	0.20	1	10/31/22 10:32	10/31/22 16:03	7440-09-7	
Sodium	**12.1**	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:03	7440-23-5	
Calcium	**16.6**	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:03	7440-70-2	
Magnesium	**3.4**	mg/L	0.050	1	10/31/22 10:32	10/31/22 16:03	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/L	0.0050	1	10/31/22 10:06	10/31/22 19:52	7440-38-2	
Boron	**0.21**	mg/L	0.040	1	10/31/22 10:06	10/31/22 19:52	7440-42-8	
Molybdenum	ND	mg/L	0.010	1	10/31/22 10:06	10/31/22 19:52	7439-98-7	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**92.0**	mg/L	25.0	1		11/01/22 16:09		MW
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**43.5**	mg/L	5.0	1		11/01/22 12:06		
Alkalinity, Total as CaCO3	**43.5**	mg/L	5.0	1		11/01/22 12:06		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**11.0**	mg/L	1.0	1		10/31/22 04:05	16887-00-6	
Fluoride	**0.27**	mg/L	0.10	1		10/31/22 04:05	16984-48-8	
Sulfate	**16.7**	mg/L	1.0	1		10/31/22 04:05	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633519

Sample: UT01_DS **Lab ID: 92633519004** Collected: 10/27/22 10:35 Received: 10/28/22 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Potassium	**3.4**	mg/L	0.20	1	10/31/22 10:32	10/31/22 16:08	7440-09-7	
Sodium	**11.1**	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:08	7440-23-5	
Calcium	**15.1**	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:08	7440-70-2	
Magnesium	**3.0**	mg/L	0.050	1	10/31/22 10:32	10/31/22 16:08	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/L	0.0050	1	10/31/22 10:06	10/31/22 19:58	7440-38-2	
Boron	**0.16**	mg/L	0.040	1	10/31/22 10:06	10/31/22 19:58	7440-42-8	
Molybdenum	ND	mg/L	0.010	1	10/31/22 10:06	10/31/22 19:58	7439-98-7	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**167**	mg/L	25.0	1		11/01/22 16:09		D6,MW
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**46.6**	mg/L	5.0	1		11/01/22 12:12		
Alkalinity, Total as CaCO3	**46.6**	mg/L	5.0	1		11/01/22 12:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**10.9**	mg/L	1.0	1		10/31/22 04:21	16887-00-6	
Fluoride	**0.26**	mg/L	0.10	1		10/31/22 04:21	16984-48-8	
Sulfate	**15.3**	mg/L	1.0	1		10/31/22 04:21	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633519

Sample: CR-0.1 **Lab ID: 92633519005** Collected: 10/27/22 11:50 Received: 10/28/22 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Potassium	**4.3**	mg/L	0.20	1	10/31/22 10:32	10/31/22 16:12	7440-09-7	
Sodium	**13.8**	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:12	7440-23-5	
Calcium	**8.1**	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:12	7440-70-2	
Magnesium	**2.4**	mg/L	0.050	1	10/31/22 10:32	10/31/22 16:12	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Boron	**0.041**	mg/L	0.040	1	10/31/22 10:06	10/31/22 20:16	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	10/31/22 10:06	10/31/22 20:16	7440-48-4	
Lithium	ND	mg/L	0.030	1	10/31/22 10:06	10/31/22 20:16	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**42.0**	mg/L	25.0	1		11/01/22 16:09		MW
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**27.4**	mg/L	5.0	1		11/01/22 12:19		
Alkalinity, Total as CaCO3	**27.4**	mg/L	5.0	1		11/01/22 12:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**12.7**	mg/L	1.0	1		10/31/22 05:08	16887-00-6	
Fluoride	**0.19**	mg/L	0.10	1		10/31/22 05:08	16984-48-8	
Sulfate	**9.1**	mg/L	1.0	1		10/31/22 05:08	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633519

Sample: CR+0.2 **Lab ID: 92633519006** Collected: 10/27/22 11:38 Received: 10/28/22 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Potassium	**4.3**	mg/L	0.20	1	10/31/22 10:32	10/31/22 16:17	7440-09-7	
Sodium	**12.9**	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:17	7440-23-5	
Calcium	**7.8**	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:17	7440-70-2	
Magnesium	**2.3**	mg/L	0.050	1	10/31/22 10:32	10/31/22 16:17	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	10/31/22 10:06	10/31/22 20:22	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	10/31/22 10:06	10/31/22 20:22	7440-48-4	
Lithium	ND	mg/L	0.030	1	10/31/22 10:06	10/31/22 20:22	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**36.0**	mg/L	25.0	1		11/01/22 16:09		MW
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**27.0**	mg/L	5.0	1		11/01/22 12:25		
Alkalinity, Total as CaCO3	**27.0**	mg/L	5.0	1		11/01/22 12:25		
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	1		10/31/22 05:24	16887-00-6	
Fluoride	**0.18**	mg/L	0.10	1		10/31/22 05:24	16984-48-8	
Sulfate	**7.7**	mg/L	1.0	1		10/31/22 05:24	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633519

Sample: CR+0.4 **Lab ID: 92633519007** Collected: 10/27/22 11:30 Received: 10/28/22 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Potassium	**4.3**	mg/L	0.20	1	10/31/22 10:32	10/31/22 16:22	7440-09-7	
Sodium	**12.8**	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:22	7440-23-5	
Calcium	**7.7**	mg/L	1.0	1	10/31/22 10:32	10/31/22 16:22	7440-70-2	
Magnesium	**2.3**	mg/L	0.050	1	10/31/22 10:32	10/31/22 16:22	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/L	0.0050	1	10/31/22 10:06	10/31/22 20:28	7440-38-2	
Boron	ND	mg/L	0.040	1	10/31/22 10:06	10/31/22 20:28	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	10/31/22 10:06	10/31/22 20:28	7440-48-4	
Lithium	ND	mg/L	0.030	1	10/31/22 10:06	10/31/22 20:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	10/31/22 10:06	10/31/22 20:28	7439-98-7	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**55.0**	mg/L	25.0	1		11/01/22 16:09		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**27.3**	mg/L	5.0	1		11/01/22 12:31		
Alkalinity, Total as CaCO3	**27.3**	mg/L	5.0	1		11/01/22 12:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**11.7**	mg/L	1.0	1		10/31/22 05:40	16887-00-6	
Fluoride	**0.18**	mg/L	0.10	1		10/31/22 05:40	16984-48-8	
Sulfate	**7.6**	mg/L	1.0	1		10/31/22 05:40	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633519

QC Batch: 733725
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92633519001, 92633519002, 92633519003, 92633519004, 92633519005, 92633519006, 92633519007

METHOD BLANK: 3818800 Matrix: Water
Associated Lab Samples: 92633519001, 92633519002, 92633519003, 92633519004, 92633519005, 92633519006, 92633519007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	10/31/22 14:27	
Magnesium	mg/L	ND	0.050	10/31/22 14:27	
Potassium	mg/L	ND	0.20	10/31/22 14:27	
Sodium	mg/L	ND	1.0	10/31/22 14:27	

LABORATORY CONTROL SAMPLE: 3818801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	105	80-120	
Magnesium	mg/L	1	1.0	103	80-120	
Potassium	mg/L	1	1.0	102	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3818802 3818803

Parameter	Units	92633366005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	114000 ug/L	1	1	116	118	196	385	75-125	2	20	M1
Magnesium	mg/L	27400 ug/L	1	1	28.8	29.3	138	185	75-125	2	20	M1
Potassium	mg/L	36900 ug/L	1	1	38.3	39.1	143	222	75-125	2	20	M1
Sodium	mg/L	266000 ug/L	1	1	270	275	337	867	75-125	2	20	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633519

QC Batch: 733721
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92633519001, 92633519002, 92633519003, 92633519004, 92633519005, 92633519006, 92633519007

METHOD BLANK: 3818794 Matrix: Water
Associated Lab Samples: 92633519001, 92633519002, 92633519003, 92633519004, 92633519005, 92633519006, 92633519007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	10/31/22 17:53	
Boron	mg/L	ND	0.040	10/31/22 17:53	
Cobalt	mg/L	ND	0.0050	10/31/22 17:53	
Lithium	mg/L	ND	0.030	10/31/22 17:53	
Molybdenum	mg/L	ND	0.010	10/31/22 17:53	

LABORATORY CONTROL SAMPLE: 3818795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.10	100	80-120	
Boron	mg/L	1	1.1	108	80-120	
Cobalt	mg/L	0.1	0.11	105	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3818796 3818797

Parameter	Units	92633223001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	2.3J ug/L	0.1	0.1	0.10	0.10	102	99	75-125	3	20	
Boron	mg/L	24.7J ug/L	1	1	1.1	1.1	105	108	75-125	3	20	
Cobalt	mg/L	6.9J ug/L	0.1	0.1	0.11	0.11	104	101	75-125	3	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	101	104	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.097	103	96	75-125	7	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633519

QC Batch: 734041 | 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: 92633519001, 92633519002, 92633519003, 92633519004, 92633519005, 92633519006, 92633519007

METHOD BLANK: 3820511 Matrix: Water
Associated Lab Samples: 92633519001, 92633519002, 92633519003, 92633519004, 92633519005, 92633519006, 92633519007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	11/01/22 16:09	

LABORATORY CONTROL SAMPLE: 3820512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	379	95	80-120	

SAMPLE DUPLICATE: 3820513

Parameter	Units	92632809001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2370	2160	9	10	

SAMPLE DUPLICATE: 3820514

Parameter	Units	92633519004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	167	74.0	77	10	D6,MW

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633519

QC Batch: 733493 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92633519001, 92633519002, 92633519003, 92633519004, 92633519005, 92633519006, 92633519007

METHOD BLANK: 3817756 Matrix: Water
Associated Lab Samples: 92633519001, 92633519002, 92633519003, 92633519004, 92633519005, 92633519006, 92633519007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	11/01/22 11:33	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	11/01/22 11:33	

LABORATORY CONTROL SAMPLE: 3817757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	55.0	110	80-120	

LABORATORY CONTROL SAMPLE: 3817758

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3817759 3817760

Parameter	Units	92633455004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	34.3	50	50	84.9	84.0	101	99	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3817761 3817762

Parameter	Units	92633455005 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	198	50	50	245	260	94	125	80-120	6	25	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633519

QC Batch: 733691
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92633519001, 92633519002, 92633519003, 92633519004, 92633519005, 92633519006, 92633519007

METHOD BLANK: 3818694 Matrix: Water
Associated Lab Samples: 92633519001, 92633519002, 92633519003, 92633519004, 92633519005, 92633519006, 92633519007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	10/31/22 01:59	
Fluoride	mg/L	ND	0.10	10/31/22 01:59	
Sulfate	mg/L	ND	1.0	10/31/22 01:59	

LABORATORY CONTROL SAMPLE: 3818695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.1	100	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	50.4	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3818696 3818697

Parameter	Units	92633612001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.1	50	50	50.5	50.2	99	98	90-110	1	10	
Fluoride	mg/L	0.14	2.5	2.5	2.7	2.6	101	100	90-110	0	10	
Sulfate	mg/L	ND	50	50	49.9	49.5	98	98	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3818698 3818699

Parameter	Units	92633523002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	12.0	50	50	61.7	61.4	100	99	90-110	1	10	
Fluoride	mg/L	0.17	2.5	2.5	2.7	2.7	101	101	90-110	0	10	
Sulfate	mg/L	7.0	50	50	57.2	56.9	100	100	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633519

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.
MW	Due to matrix interference, achieving a constant weight is not possible.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough CCR-Ash Pond
Pace Project No.: 92633519

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92633519001	**UT01_US**	EPA 3010A	733725	EPA 6010D	733811
92633519002	**UT02**	EPA 3010A	733725	EPA 6010D	733811
92633519003	**UT03**	EPA 3010A	733725	EPA 6010D	733811
92633519004	**UT01_DS**	EPA 3010A	733725	EPA 6010D	733811
92633519005	**CR-0.1**	EPA 3010A	733725	EPA 6010D	733811
92633519006	**CR+0.2**	EPA 3010A	733725	EPA 6010D	733811
92633519007	**CR+0.4**	EPA 3010A	733725	EPA 6010D	733811
92633519001	**UT01_US**	EPA 3005A	733721	EPA 6020B	733812
92633519002	**UT02**	EPA 3005A	733721	EPA 6020B	733812
92633519003	**UT03**	EPA 3005A	733721	EPA 6020B	733812
92633519004	**UT01_DS**	EPA 3005A	733721	EPA 6020B	733812
92633519005	**CR-0.1**	EPA 3005A	733721	EPA 6020B	733812
92633519006	**CR+0.2**	EPA 3005A	733721	EPA 6020B	733812
92633519007	**CR+0.4**	EPA 3005A	733721	EPA 6020B	733812
92633519001	**UT01_US**	SM 2540C-2015	734041		
92633519002	**UT02**	SM 2540C-2015	734041		
92633519003	**UT03**	SM 2540C-2015	734041		
92633519004	**UT01_DS**	SM 2540C-2015	734041		
92633519005	**CR-0.1**	SM 2540C-2015	734041		
92633519006	**CR+0.2**	SM 2540C-2015	734041		
92633519007	**CR+0.4**	SM 2540C-2015	734041		
92633519001	**UT01_US**	SM 2320B-2011	733493		
92633519002	**UT02**	SM 2320B-2011	733493		
92633519003	**UT03**	SM 2320B-2011	733493		
92633519004	**UT01_DS**	SM 2320B-2011	733493		
92633519005	**CR-0.1**	SM 2320B-2011	733493		
92633519006	**CR+0.2**	SM 2320B-2011	733493		
92633519007	**CR+0.4**	SM 2320B-2011	733493		
92633519001	**UT01_US**	EPA 300.0 Rev 2.1 1993	733691		
92633519002	**UT02**	EPA 300.0 Rev 2.1 1993	733691		
92633519003	**UT03**	EPA 300.0 Rev 2.1 1993	733691		
92633519004	**UT01_DS**	EPA 300.0 Rev 2.1 1993	733691		
92633519005	**CR-0.1**	EPA 300.0 Rev 2.1 1993	733691		
92633519006	**CR+0.2**	EPA 300.0 Rev 2.1 1993	733691		
92633519007	**CR+0.4**	EPA 300.0 Rev 2.1 1993	733691		

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 Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	ARCADIS Atlanta	Report To:	Joju Abraham, Allison Keefer, Ben Hodges	Attention:	Joju Abraham
Address:	2839 Paces Ferry Rd	Copy To:	Warren Johnson	Company Name:	GPC
	Atlanta, GA 30339			Address:	
Email:	warren.johnson@arcadis.com	Purchase Order #:	SCS10382775	Pace Quote:	
Phone:	678.485.5298 Fax:	Project Name:	Plant McDonough	Pace Project Manager:	Mayia.Parks@pacelabs.com,
Requested Due Date:	5 day TAT	Project #:		Pace Profile #:	2239

Regulatory Agency	
State / Location	
	GA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	CCR App III[1]	Major Ions[2]	Arsenic (As)	Cobalt (Co)	Lithium (Li)	Molybdenum (Mo)	Residual Chlorine (Y/N)
1	UT01_US	WS	G	10/27/2022	0958														X	X	X			X	
2	UT02	WS	G	10/27/2022	1025														X	X	X				
3	UT03	WS	G	10/27/2022	1013														X	X	X			X	
4	UT01_DS	WS	G	10/27/2022	1035														X	X	X			X	
5	CR-0.1	WS	G	10/27/2022	1150														X	X		X	X		
6	CR+0.2	WS	G	10/27/2022	1138														X	X		X	X		
7	CR+0.4	WS	G	10/27/2022	1130														X	X	X	X	X	X	
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
CCR App III[1] - Boron (B), Calcium(Ca), Chloride (Cl), Floride (F), Sulfate, Total Dissolved Solids	/Arcadis	10/28/22	0950	Charles Hunter	10/28/22	0950	
Major Ions - Magnesium (Mg), Sodium (Na), Potassium (K), Total Alkalinity Bicarbonate Alkalinity							

WO# : 92633519

92633519

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Garrett Grabowski 10/28

IP in C ... eived on ... ody ... er ... ples

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Arcadis

Project #: WO# : 92633519

PM: MP Due Date: 11/04/22

CLIENT: GA-ArcadAtl

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 10/28/22 EJ

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.3 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.3

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO#: 92633519

PM: MP **Due Date: 11/04/22**

CLIENT: GA-ArcadAtl

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project #

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

*****Check all unpreserved Nitrates for chlorine**

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																							
2		2	1			1																							
3		2	1			1																							
4		2	1			1																							
5		2	1			1																							
6		2	1			1																							
7		2	1			1																							
8						1																							
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

APPENDIX B

Data Validation Summary

Quality Control Review of Analytical Data- Ash Pond AP-2 and 3/4
Submitted by Pace Analytical Services, LLC
September 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 Plant McDonough CCR Ash Pond AP-2 and 3/4 (Site) between September 7, 2022 and October 27, 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 assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. Groundwater samples were also analyzed for alkalinity. 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 surface water samples were collected and analyzed for Total Metals (USEPA Method 6020B), Cations (6010D), Anions (300.0), Alkalinity by Titration through Standard Method 2320B (SM2320B), and TDS (SM 2540C).

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 with the exception of TDS.

Field Precision: Field goals for precision were met.

Accuracy: Laboratory goals for accuracy were met with the exception of barium, calcium, fluoride, iron, magnesium, radium-226, radium-228, total radium, sodium, sulfate, and TDS, as described in the qualification sections below.

Detection Limits: Project goals for detection limits were met. Certain samples were diluted due to elevated concentrations of target analytes. Dilutions do not require qualifications based on USEPA guidelines. Detection and reporting limits of non-detect compounds are elevated proportional to the dilution when undiluted sample results are not provided by the laboratory. The data

usability of diluted results was evaluated by the data user in the context of site-wide characterization.

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.

QUALIFICATIONS

In general, chemical results for the samples collected at the Site were qualified on the basis of 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 during the data validation process.

J	The analyte was reported above the method detection limit and below the reporting limit. The concentration reported is an estimated value.
J+	The analyte was reported above the method detection limit; however, the concentration reported is an estimated value that may be biased high.
U	The analyte was not detected above the method detection limit.

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. Although these qualifications were applied to some data from samples collected at the site (see Table 1), qualifications may not have been required or applied to all samples collected. A summary of sample qualifications can be found in Table 2.

- Certain TDS results from SDG 92633523 were unable to achieve a constant weight due to matrix interference during analysis. The TDS results were qualified as J, estimated.
- Certain radium-228 results from SDG 92625212 had laboratory control samples/laboratory control sample duplicate (LCS/LCSD) recoveries outside of QC criteria. The associated samples were non-detect and did not require qualification. Radium-228 results from SDGs 92625627 and 92625219 were qualified as J+ as the associated LCSD recoveries were above the QC criteria. Total radium also received the J+ qualifier since an individual isotope was qualified.
- Certain calcium, magnesium, sodium, and sulfate results from SDGs 92624373, 92628215, 92625623 and 92625189 had matrix spike and matrix spike duplicate (MS/MSD) recoveries outside of the QC criteria. All sample results were greater than 4x the added spike concentration, and no qualification was required.
- Fluoride from SDG 92628215 was qualified as J+ as the associated MS and MSD recoveries were above the QC criteria.
- Certain barium, TDS, radium-226, and radium-228 in SDGs 92624378, 92625623, 92624383, 92625627, 92625178, and 92625631 were qualified as non-detect (U) when the analyte was

detected at a similar level in an associated blank sample. As shown in Table 2, if the original sample results were above the reporting limit (RL), the results were qualified as non-detect (U) and the RL was raised to the sample result.

- Certain total radium results from SDGs 92624378, 92624383, 92625627, and 92625631 were qualified as estimated, bias high (J+) due to one of the radium isotopes being U qualified from blank contamination and the other isotope being a non-detect.

- Iron from SDG 92625623 was qualified as U, non-detect, when the analyte was detected at a similar level in an associated blank sample. As shown in Table 2, if the original sample results were below the RL, the results were qualified as non-detect (U) and the results were raised to the RL.

Golder reviewed the data from samples collected at Plant McDonough CCR Ash Pond AP-2 and 3/4 between September 7, 2022 and October 27, 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.

REFERENCE

Paar, J.G. & Porterfield, D.R. *Evaluation of Radiochemical Data Usability.* United States Department of Energy, Office of Environmental Restoration and Waste Management, Oak Ridge National Laboratory, April 1997.

US EPA, November 2020, National Functional Guidelines for Inorganic Superfund Methods Data Review, Office of Superfund Remediation and Technology Innovation. OLEM 9240.0-51 [EPA 540-R-20-005]. Washington. DC, November 2020.

USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, *Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data By Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy,* Revision 2.0.

USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, *Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data By Cold Vapor Atomic Absorption,* Revision 2.0.

TABLE 1

Sample Summary Table
SCS Plant McDonough Ash Pond 2 and 3/4

						Analyses								
SDGs	***Field Identification***	***Collection Date***	***Lab Identification***	***Matrix***	***QC Samples***	**Field pH**	**Total Metals (EPA 6020B)**	**Cations (EPA 6010D)**	**Anions (EPA 300.0)**	**Total Mercury (EPA 7470A)**	**TDS (SM 2540C-2011)**	**Alkalinity (SM 2320B)**	**Radium-226 (EPA 9315)**	**Radium-228 (EPA 9320)**
92624376	DGWA-70A	9/7/2022	92624376001	WG	-	X	X	X	X	X	X	X	-	-
92624376	DGWA-71	9/7/2022	92624376002	WG	-	X	X	X	X	X	X	X	-	-
92624376	DGWA-53	9/8/2022	92624376003	WG	-	X	X	X	X	X	X	X	-	-
92624378	DGWA-70A	9/7/2022	92624378001	WG	-	-	-	-	-	-	-	-	X	X
92624378	DGWA-71	9/8/2022	92624378002	WG	-	-	-	-	-	-	-	-	X	X
92624378	DGWA-53	9/8/2022	92624378003	WG	-	-	-	-	-	-	-	-	X	X
92624373	B-100	9/8/2022	92624373003	WG	-	X	X	X	X	X	X	X	-	-
92624373	B-62	9/8/2022	92624373004	WG	-	X	X	X	X	X	X	X	-	-
92624383	B-100	9/8/2022	92624383003	WG	-	-	-	-	-	-	-	-	X	X
92624383	B-62	9/8/2022	92624383004	WG	-	-	-	-	-	-	-	-	X	X
92625623	DGWC-14	9/13/2022	92625623001	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-15	9/13/2022	92625623002	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-42	9/13/2022	92625623003	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-47	9/13/2022	92625623004	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-48	9/13/2022	92625623005	WG		X	X	X	X	X	X	X	-	-
92625623	EB-3	9/13/2022	92625623006	WQ	EB (DGWC-48)	-	X	X	X	X	X	X	-	-
92625623	FB-4	9/13/2022	92625623007	WQ	FB (DGWC-42)	-	X	X	X	X	X	X	-	-
92625623	DGWC-5	9/14/2022	92625623008	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-17	9/14/2022	92625623009	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-19	9/14/2022	92625623010	WG		X	X	X	X	X	X	X	-	-
92625623	DUP-5	9/14/2022	92625623011	WG	FD (DGWC-17)	-	X	X	X	X	X	X	-	-
92625623	DGWC-8	9/15/2022	92625623015	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-10	9/15/2022	92625623016	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-11	9/15/2022	92625623017	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-12	9/15/2022	92625623018	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-13	9/15/2022	92625623019	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-20	9/15/2022	92625623020	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-21	9/15/2022	92625623021	WG		X	X	X	X	X	X	X	-	-
92625623	EB-5	9/15/2022	92625623022	WQ	EB (DGWC-20)	-	X	X	X	X	X	X	-	-
92625623	DGWC-22	9/16/2022	92626314001	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-4	9/19/2022	92626314002	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-9	9/19/2022	92626314003	WG		X	X	X	X	X	X	X	-	-
92625623	Dup-6	9/19/2022	92626314004	WG	FD (DGWC-9)	-	X	X	X	X	X	X	-	-
92625623	DGWC-2	9/20/2022	92626314005	WG		X	X	X	X	X	X	X	-	-
92625623	DGWC-23	9/20/2022	92626314006	WG		X	X	X	X	X	X	X	-	-
92625627	DGWC-14	9/13/2022	92625627001	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-15	9/13/2022	92625627002	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-42	9/13/2022	92625627003	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-47	9/13/2022	92625627004	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-48	9/13/2022	92625627005	GW	-	-	-	-	-	-	-	-	X	X
92625627	EB-3	9/13/2022	92625627006	WQ	EB (DGWC-48)	-	-	-	-	-	-	-	X	X
92625627	FB-4	9/13/2022	92625627007	WQ	FB (DGWC-42)	-	-	-	-	-	-	-	X	X
92625627	DGWC-5	9/14/2022	92625627008	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-17	9/14/2022	92625627009	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-19	9/14/2022	92625627010	GW	-	-	-	-	-	-	-	-	X	X
92625627	DUP-5	9/14/2022	92625627011	GW	FD (DGWC-17)	-	-	-	-	-	-	-	X	X
92625627	DGWC-22	9/16/2022	92625627012	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-8	9/15/2022	92625627013	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-10	9/15/2022	92625627014	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-11	9/15/2022	92625627015	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-12	9/15/2022	92625627016	WG	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-13	9/15/2022	92625627017	WG	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-20	9/15/2022	92625627018	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-21	9/15/2022	92625627019	GW	-	-	-	-	-	-	-	-	X	X
92625627	EB-5	9/15/2022	92625627020	WQ	EB (DGWC-20)	-	-	-	-	-	-	-	X	X
92625627	DGWC-4	9/19/2022	92625627021	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-9	9/19/2022	92625627022	GW	-	-	-	-	-	-	-	-	X	X
92625627	Dup-6	9/19/2022	92625627023	GW	FD (DGWC-9)	-	-	-	-	-	-	-	X	X
92625627	DGWC-2	9/20/2022	92626980001	GW	-	-	-	-	-	-	-	-	X	X
92625627	DGWC-23	9/20/2022	92626980002	GW	-	-	-	-	-	-	-	-	X	X
92625178	B-83	9/13/2022	92625178003	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-97	9/13/2022	92625178004	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-98	9/13/2022	92625178005	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-104D	9/13/2022	92625178006	GW	-	X	X	X	X	X	X	X	-	-

TABLE 1

Sample Summary Table
SCS Plant McDonough Ash Pond 2 and 3/4

						Analyses								
SDGs	***Field Identification***	***Collection Date***	***Lab Identification***	***Matrix***	***QC Samples***	**Field pH**	**Total Metals (EPA 6020B)**	**Cations (EPA 6010D)**	**Anions (EPA 300.0)**	**Total Mercury (EPA 7470A)**	**TDS (SM 2540C-2011)**	**Alkalinity (SM 2320B)**	**Radium-226 (EPA 9315)**	**Radium-228 (EPA 9320)**
92625178	DUP-4	9/13/2022	92625178007	GW	FD (B-83)	-	X	X	X	X	X	X	-	-
92625178	B-77	9/13/2022	92625178008	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-63	9/14/2022	92625178009	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-107D	9/14/2022	92625178010	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-111D	9/14/2022	92625178011	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-115D	9/14/2022	92625178012	GW	-	X	X	X	X	X	X	X	-	-
92625178	FB-5	9/14/2022	92625178013	WQ	FB (B-63)	-	X	X	X	X	X	X	-	-
92625178	B-102D	9/15/2022	92625623012	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-108D	9/15/2022	92625623013	GW	-	X	X	X	X	X	X	X	-	-
92625178	FB-6	9/15/2022	92625623014	WQ	FB (B-108D)	-	X	X	X	X	X	X	-	-
92625178	B-56	9/16/2022	92625178017	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-66	9/16/2022	92625178018	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-88	9/16/2022	92625178019	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-101D	9/16/2022	92625178020	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-106D	9/16/2022	92625178021	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-82	9/16/2022	92625178022	GW	-	X	X	X	X	X	X	X	-	-
92625178	B-120D	9/19/2022	92625178023	GW	-	X	X	X	X	X	X	X	-	-
92625178	EB-6	9/19/2022	92625178024	WQ	EB (B-120D)	-	X	X	X	X	X	X	-	-
92625178	B-109D	9/20/2022	92625178025	GW	-	X	X	X	X	X	X	X	-	-
92625631	B-83	9/13/2022	92625631001	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-97	9/13/2022	92625631002	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-98	9/13/2022	92625631003	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-104D	9/13/2022	92625631004	GW	-	-	-	-	-	-	-	-	X	X
92625631	DUP-4	9/13/2022	92625631005	GW	FD (B-83)	-	-	-	-	-	-	-	X	X
92625631	B-77	9/13/2022	92625631006	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-63	9/14/2022	92625631007	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-107D	9/14/2022	92625631008	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-111D	9/14/2022	92625631009	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-115D	9/14/2022	92625631010	GW	-	-	-	-	-	-	-	-	X	X
92625631	FB-5	9/14/2022	92625631011	WQ	FB (B-63)	-	-	-	-	-	-	-	X	X
92625631	B-56	9/16/2022	92625631012	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-66	9/16/2022	92625631013	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-88	9/16/2022	92625631014	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-101D	9/16/2022	92625631015	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-106D	9/16/2022	92625631016	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-82	9/16/2022	92625631017	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-102D	9/15/2022	92625631018	GW	-	-	-	-	-	-	-	-	X	X
92625631	B-108D	9/15/2022	92625631019	GW	-	-	-	-	-	-	-	-	X	X
92625631	FB-6	9/15/2022	92625631020	WQ	FB (B-108D)	-	-	-	-	-	-	-	X	X
92625631	B-120D	9/19/2022	92625631021	GW	-	-	-	-	-	-	-	-	X	X
92625631	EB-6	9/19/2022	92625631022	WQ	EB (B-120D)	-	-	-	-	-	-	-	X	X
92625631	B-109D	9/20/2022	92625631023	GW	-	-	-	-	-	-	-	-	X	X
92628215	B-92	9/12/2022	92625178001	GW	-	X	X	X	X	X	X	X	-	-
92628215	B-93	9/12/2022	92625178002	GW	-	X	X	X	X	X	X	X	-	-
92625219	B-92	9/12/2022	92625219001	GW	-	-	-	-	-	-	-	-	X	X
92625219	B-93	9/12/2022	92625219002	GW	-	-	-	-	-	-	-	-	X	X
92624826	B-116D	9/8/2022	92624826001	WG	-	X	X	X	X	X	X	X	-	-
92624826	DUP-2	9/8/2022	92624826002	WG	FD (B-116D)	X	X	X	X	X	X	X	-	-
92624826	B-118	9/9/2022	92624826003	WG	-	X	X	X	X	X	X	X	-	-
92624832	B-116D	9/8/2022	92624832001	WG	-	-	-	-	-	-	-	-	X	X
92624832	DUP-2	9/8/2022	92624832002	WG	FD (B-116D)	-	-	-	-	-	-	-	X	X
92624832	B-118	9/9/2022	92624832003	WG	-	-	-	-	-	-	-	-	X	X
92625185	B-79	9/12/2022	92625185001	WG	-	X	X	-	-	-	-	-	-	-
92625185	B-54	9/13/2022	92625185002	WG	-	X	X	-	-	-	-	-	-	-
92625185	B-64	9/13/2022	92625185003	WG	-	X	X	-	-	-	-	-	-	-
92625185	B-78	9/13/2022	92625185004	WG	-	X	X	-	-	-	-	-	-	-
92625185	B-76	9/13/2022	92625185005	WG	-	X	X	-	-	-	-	-	-	-
92625185	B-77	9/13/2022	92625185006	WG	-	X	X	-	-	-	-	-	-	-
92625185	B-63	9/14/2022	92625185007	WG	-	X	X	-	-	-	-	-	-	-
92625185	B-74	9/14/2022	92625185008	WG	-	X	X	-	-	-	-	-	-	-
92625185	B-66	9/16/2022	92625185009	WG	-	X	X	-	-	-	-	-	-	-
92625185	B-88	9/16/2022	92625185010	WG	-	X	X	-	-	-	-	-	-	-
92625185	B-82	9/16/2022	92625185011	WG	-	X	X	-	-	-	-	-	-	-
92624830	B-73	9/8/2022	92624830001	GW	-	X	X	-	-	-	-	-	-	-
92624830	B-62	9/8/2022	92624830002	GW	-	X	X	-	-	-	-	-	-	-
92624830	B-68	9/9/2022	92624830003	GW	-	X	X	-	-	-	-	-	-	-
92625189	B-90	9/13/2022	92625189001	WG	-	X	X	-	-	-	-	-	-	-

TABLE 1

Sample Summary Table
SCS Plant McDonough Ash Pond 2 and 3/4

						Analyses								
SDGs	***Field Identification***	***Collection Date***	***Lab Identification***	***Matrix***	***QC Samples***	**Field pH**	**Total Metals (EPA 6020B)**	**Cations (EPA 6010D)**	**Anions (EPA 300.0)**	**Total Mercury (EPA 7470A)**	**TDS (SM 2540C-2011)**	**Alkalinity (SM 2320B)**	**Radium-226 (EPA 9315)**	**Radium-228 (EPA 9320)**
92625189	B-91	9/13/2022	92625189002	WG	-	X	X	-	-	-	-	-	-	-
92625189	B-95	9/13/2022	92625189003	WG	-	X	X	-	-	-	-	-	-	-
92625189	B-99	9/13/2022	92625189004	WG	-	X	X	-	-	-	-	-	-	-
92625189	B-119D	9/13/2022	92625189005	WG	-	X	X	X	X	X	X	X	-	-
92625189	Dup-3	9/13/2022	92625189006	WG	FD (B-119D)	X	X	X	X	X	X	-	-	-
92625189	B-96	9/14/2022	92625189007	WG	-	X	X	-	-	-	-	-	-	-
92625189	B-122D	9/14/2022	92625189008	WG	-	X	X	X	X	X	X	X	-	-
92625189	EB-4	9/14/2022	92625189009	WQ	EB (B-122D)	X	X	X	X	X	X	-	-	-
92625189	B-117D	9/14/2022	92625189010	WG	-	X	X	X	X	X	X	X	-	-
92625189	B-123D	9/14/2022	92625189011	WG	-	X	X	X	X	X	X	X	-	-
92625212	B-119D	9/12/2022	92625212001	WG	-	-	-	-	-	-	-	-	X	X
92625212	Dup-3	9/12/2022	92625212002	WG	FD (B-119D)	-	-	-	-	-	-	-	X	X
92625212	B-122D	9/14/2022	92625212003	WG	-	-	-	-	-	-	-	-	X	X
92625212	EB-4	9/14/2022	92625212004	WQ	EB (B-122D)	-	-	-	-	-	-	-	X	X
92625212	B-117D	9/15/2022	92625212005	WG	-	-	-	-	-	-	-	-	X	X
92625212	B-123D	9/20/2022	92625212006	WG	-	-	-	-	-	-	-	-	X	X
92624825	SW-1	9/8/2022	92624825001	WS	-	X	X	-	-	-	-	-	-	-
92624825	SW-2	9/8/2022	92624825002	WS	-	X	X	-	-	-	-	-	-	-
92624825	SW-3	9/8/2022	92624825003	WS	-	X	X	-	-	-	-	-	-	-
92624825	SW-4	9/13/2022	92624825004	WS	-	X	X	-	-	-	-	-	-	-
92633523	DW_DS	10/27/2022	92633523001	WS	-	-	X	X	X	-	X	X	-	-
92633523	DW_US	10/27/2022	92633523002	WS	-	-	X	X	X	-	X	X	-	-
92633523	CR-0.2	10/27/2022	92633523003	WS	-	-	X	X	X	-	X	X	-	-
92633523	CR-0.5	10/27/2022	92633523004	WS	-	-	X	X	X	-	X	X	-	-

Abbreviations:

SDG- Sample Delivery Group
QC - Quality Control
SM - Standard Method
WS - Surface Water
WG - Groundwater
WQ - Water Quality
TDS - Total dissolved solids
FD - Field Duplicate
EB - Equipment Blank
FB - Field Blank

TABLE 2
Qualifier Summary Table
SCS Plant McDonough Ash Pond 2 and 3/4

SDG	*Sample Name*	*Constituent*	*New Result*	*New RL or MDC*	*Qualifier*	*Reason*
92624378	DGWA-53	Radium 228	-	0.814	U	Method blank contamination
92624378	DGWA-53	Total Radium	-	-	J+	Method blank contamination
92624383	B-62	Radium 228	-	1.33	U	Method blank contamination
92624383	B-62	Total Radium	-	-	J+	Method blank contamination
92625623	DGWC-48	Barium	-	0.014	U	Equipment blank detection.
92625623	DGWC-42	Barium	-	0.016	U	Equipment blank detection.
92625623	DGWC-20	Iron	0.034	-	U	Equipment blank detection.
92625627	DGWC-2	Radium-226	-	0.367	U	Method Blank contamination
92625627	DGWC-23	Radium-226	-	0.226	U	Method Blank contamination
92625627	DGWC-20	Radium-228	-	1.28	U	Equipment Blank contamination
92625627	DGWC-20	Total Radium	-	-	J+	Equipment Blank contamination
92625627	DGWC-47	Radium-228	-	-	J+	LCSD exceeds QC limits
92625627	DGWC-47	Total Radium	-	-	J+	LCSD exceeds QC limits
92625627	DGWC-48	Radium-228	-	-	J+	LCSD exceeds QC limits
92625627	DGWC-48	Total Radium	-	-	J+	LCSD exceeds QC limits
92625178	B-108D	TDS	-	540	U	Field blank contamination
92625631	B-63	Radium-228	-	0.966	U	Field blank detection
92625631	B-63	Total Radium	-	-	J+	Field blank detection
92628215	B-93	Fluoride	-	-	J+	MS/MSD above QC limits
92625219	B-92	Radium-228	-	-	J+	LCSD exceeds QC limits
92625219	B-92	Total Radium	-	-	J+	LCSD exceeds QC limits
92625219	B-93	Radium-228	-	-	J+	LCSD exceeds QC limits
92625219	B-93	Total Radium	-	-	J+	LCSD exceeds QC limits
92633523	DW_DS	TDS	-	-	J	Matrix interference
92633523	DW_US	TDS	-	-	J	Matrix interference
92633523	CR-0.2	TDS	-	-	J	Matrix interference
92633523	CR-0.5	TDS	-	-	J	Matrix interference

Abbreviations:
RL : Reporting limit
MDC : Minimum detectable concentration
MDL: Method detection limit
SDG : Sample delivery group
TDS: Total Dissolved Solids

Qualifier
U: Non-detect
J: Estimated
J+: Estimated, bias high

APPENDIX B

Laboratory Accreditation

July 14, 2022

RE: Georgia Commercial Laboratory Accreditation Rule

Stipulation Requirements for Analysis of Non-Potable Water and Solid and Chemical Materials
Georgia state law requires any person submitting data to the GA Environmental Protection Division for regulatory purposes to stipulate that the laboratory responsible for preparing the data is approved or accredited to perform analysis of environmental samples. This stipulation must be included within each report or may be submitted in a separate document with the first report of the calendar year; alternatively, the attached scope of accreditation may be submitted in lieu of a stipulation.

The information provided below may be used to generate a stipulation for data reporting purposes:

Name of Laboratory:	Pace Analytical Services, LLC – Asheville, NC
Name of Accrediting Agency:	Commonwealth of Virginia Department of General Services Division of Consolidated Laboratory Services [Primary NELAP Accreditation]
Accreditation Number:	460222
Scopes of Accreditation:	Non-Potable Water Solid and Chemical Materials
Accreditation Effective Date:	June 15, 2022
Accreditation Expiration Date:	June 14, 2023

For additional information regarding the Georgia Commercial Laboratory Accreditation Rule, please contact the Georgia Environmental Protection Division at 404-656-4713.

Sincerely,

Jacob Cottrell
Quality Manager

[O] 828.417.6052
jacob.cottrell@pacelabs.com
2225 Riverside Drive, Asheville, NC 28804

June 15, 2022

Stipulation of Approval for Commercial Laboratory

According to Georgia State Law (O.C.G.A. 12-2-9) Commercial Rules for Commercial Laboratory Accreditation, any person submitting data to EPD prepared by a commercial laboratory shall stipulate that the laboratory is approved (Chapter 391-3-26-.05). The following information is provided as requested.

Laboratory	**Pace Analytical Services, LLC** 9800 Kincey Avenue, Suite 100 Huntersville, NC 28078 Phone: 704.875.9092
Accredited By:	Commonwealth of Virginia, Department of General Services: Accrediting NELAP Authority
Accreditation ID:	Laboratory ID#: 460221
Scope:	Clean Water Act – Extractable Organics, Pesticides, PCB's, Volatile Organics RCRA/CERCLA – Extractable Organics, Pesticides, PCB's, Volatile Organics
Effective:	June 15, 2022
Expires:	June 14, 2023

Any question regarding this stipulation of approval may be directed to Pace Analytical at 704.875.9092. Thank you for your business and please do not hesitate to contact us if we can be of further assistance.

Sincerely,

Ross Simmons
Quality Assurance Manager

[O] 704.875.9092 [F] 704.875.9091
9800 Kincey Avenue, Suite 100, Huntersville, NC 28078

PACELABS.COM

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092

Phone: 770.734.4200
Fax: 770.734.4201
www.pacelabs.com

Stipulation of Approval for Commercial Environmental Laboratories

Pursuant to the *Rules and Regulations of the State of Georgia* (O.C.G.A. 12-2-9) and *Rule 391-3-26.05* for "Commercial Environmental Laboratories", any person submitting data prepared by a commercial analytical laboratory to the Division for regulatory purposes shall stipulate that the laboratory is approved.

The stipulations for which Pace-Atlanta is approved, is as follows:

Laboratory:	**Pace Analytical Services, LLC – Atlanta GA** 110 Technology Parkway Peachtree Corners, GA 30092 Phone: (770) 734-4200 Fax: (770) 734-4201
Accredited By:	Authority Florida Department of Health (FL - DOH) Program Florida Environmental Laboratory Certification Program (TNI/NELAP)
Accreditation ID:	E87315
Scope of Accreditation:	Non-Potable Water (NPW) -General Chemistry (Wet Chemistry) -Metals -Microbiology Solid and Chemical Materials (SCM) -General Chemistry -Metals - Microbiology
Effective Dates:	July 1, 2022 – June 30, 2023

Any question regarding this stipulation of approval may be directed to Pace-Atlanta at (770) 734-4200. Thank you for your business and please do not hesitate to contact us if we can be of further assistance.

Sincerely,

Ross Simmons
Quality Manager – Atlanta Laboratory
Pace Analytical Services, LLC

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Richard E. Dunn, Director

Watershed Protection Branch
2 Martin Luther King, Jr. Drive
Suite 1152, East Tower
Atlanta, Georgia 30334
404-463-1511

Mr. William Billings, Laboratory Director
Pace Analytical Services, LLC - Pittsburgh
1638 Roseytown Road, Suites 2, 3 and 4
Greensburg, PA 15601

June 14, 2022

RE: Certification by Reciprocity
Pace Analytical Services, Inc. - Pittsburgh
Georgia ID #C040

Dear Mr. Billings:

The Georgia Department of Natural Resources, Environmental Protection Division (EPD) is in receipt of all required data necessary to fulfill your laboratory's request for Certification by Reciprocity in Georgia for the analysis of the parameters listed in the attached certificate. Therefore, in accordance with the Georgia Safe Drinking Water Act of 1977 (Sections 12-5-170 through 12-5-193, O.C.G.A.) and the Rules for Safe Drinking Water (Chapter 391-3-5), this certification is valid until March 31, 2023. This certificate is contingent upon continued Certification by the Commonwealth of Pennsylvania's Department of Environmental Protection and is non-transferable. This certificate is also contingent upon continued acceptable semi-annual Proficiency Testing results.

If Pace Analytical Services, LLC – Pittsburgh's certification status is downgraded for any analyte/method by your Primary Accrediting Agency, the GA Certification Program must be notified. Any downgrade will result in the withdrawal of reciprocity for that analyte.

Prior to the expiration of this certification, please contact your accrediting/certifying authority and request that the following information be forwarded to me at lynne.grubb@dnr.ga.gov.

1. Copies of the most current on-site report, and proposed and accepted corrective actions
2. Copies of the Certificate and scope of accreditation listing analytes

For additional information please feel free to contact Lynne Grubb at 470-604-9528.

Sincerely,

Lynne Grubb

Lynne Grubb
Laboratory Certification Officer
Drinking Water Compliance Unit

Sean Earley
Program Manager
Drinking Water Compliance Unit

PACE ANALYTICAL SERVICES, INC.- PITTSBURGH (GA LAB ID# C040)
1638 Roseytown Road, Suites 2,3 and 4, Greensburg, PA 15601
Effective April 1, 2022 - March 31, 2023

ANALYTE	CERTIFIED BY	METHOD
RADIONUCLIDES		
Gross Alpha	PA DEP	900.0, SM 7110C
Gross Beta	PA DEP	900.0
Radium 226	PA DEP	903.0, 903.1
Radium 228	PA DEP	904.0
Uranium	PA DEP	ASTM D5174-97

APPENDIX C

Well Condition Inspection Forms

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWA-53

Date: 9/6/2022

		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 inot 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 arppove 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:		Access overgrown vegetation		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWA-70A

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: DGWA-71

Date: 9/6/2022

		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 inot 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 arppove 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:		Overgrown vegetation		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-2

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: DGWC-4

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: DGWC-5

Date: 9/6/2022

		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 inot 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 arppove 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:		Overgrown vegetation		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-8

Date: 9/6/2022

		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 inot 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 arppove 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:		Overgrown vegetation		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-9

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: DGWC-10

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: DGWC-11

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: DGWC-12

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: DGWC-13

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: DGWC-14

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: DGWC-15

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: DGWC-17

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: DGWC-19

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: DGWC-20

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: DGWC-21

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: DGWC-22

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: DGWC-23

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: DGWC-42

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: DGWC-47

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: DGWC-48

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-3

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-6

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-7

Date: 9/6/2022

		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 inot 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 arppove 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:		Bollard missing		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-16

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-18

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-24

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-25

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-26

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-28

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-29

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-31

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-41

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-50

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-51

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-52

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-54

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-55

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-56

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-57

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-58

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-59

Date: 9/6/2022

		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 inot 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 arppove 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:		Overgrown vegetation		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-60

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-61

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-62

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-63

Date: 9/6/2022

		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 inot 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 arppove 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:		Damaged manhole lid		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-64

Date: 9/6/2022

		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 inot 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 arppove 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:		Well lock and bar destroyed		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-65

Date: 9/6/2022

		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 inot 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 arppove 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:		Broken bolt holes		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-66

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-68

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-72

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-73

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-74

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-76

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-77

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-78

Date: 9/6/2022

		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 inot 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 arppove 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:		Overgrown vegetation		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-79

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-80

Date: 9/6/2022

		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 inot 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 arppove 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:		Two bollards missing		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-81

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-82

Date: 9/6/2022

		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 inot 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 arppove 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:		No weep hole		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-83

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-85

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-86

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-87

Date: 9/6/2022

		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 inot 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 arppove 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:		Overgrown vegetation		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-88

Date: 9/6/2022

		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 inot 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 arppove 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:		Overgrown vegetation		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-89

Date: 9/6/2022

		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 inot 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 arppove 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:		Broken bolt hole		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-90

Date: 9/6/2022

		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 inot 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 arppove 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:		Overgrown vegetation		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-91

Date: 9/6/2022

		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 inot 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 arppove 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:		Flooded annulus		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-92

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-93

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-94

Date: 9/6/2022

		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 inot 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 arppove 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:		Need flat well cap, lock bar		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-95

Date: 9/6/2022

		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 inot 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 arppove 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:		Off site well, no lock bar		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-96

Date: 9/6/2022

		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 inot 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 arppove 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:		Off site well, no lock bar		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-97

Date: 9/6/2022

		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 inot 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 arppove 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:		Off site well, no lock bar		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-98

Date: 9/6/2022

		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 inot 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 arppove 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:		Off site well, no lock bar		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-99

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-100

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-101D

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-102D

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-103D

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-104D

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-105D

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-106D

Date: 9/6/2022

		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 inot 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 arppove 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:		Two bollards fallen, overgrown		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-107D

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-108D

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-109D

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-110D

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-111D

Date: 9/6/2022

		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 inot 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 arppove 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:		Overgrown vegetation		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-112D

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-113D

Date: 9/6/2022

		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 inot 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 arppove 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:		Wash out around well pad		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-115D

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-116D

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-117D

Date: 9/6/2022

		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 inot 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 arppove 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:		Overgrown vegetation		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-118

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-119D

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-120D

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: B-122D

Date: 9/6/2022

		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 inot 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 arppove 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:		Cracked well pad		
Signature and Seal of PE/PG responsible for inspection				

Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-123D

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: DW-1

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: DW-2

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: DW-3

Date: 9/6/2022

		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 inot 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 arppove 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 McDonough

Permit Number:

Well ID: DW-4

Date: 9/6/2022

		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 inot 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 arppove 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				

Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: SW-1

Date: 9/6/2022

		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 inot 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 arppove 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				

Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: SW-2

Date: 9/6/2022

		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 inot 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 arppove 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				

Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: SW-3

Date: 9/6/2022

		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 inot 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 arppove 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				

Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: SW-4

Date: 9/6/2022

		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 inot 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 arppove 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:		Overgrown vegetation		
Signature and Seal of PE/PG responsible for inspection				

Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: WT-1

Date: 9/6/2022

		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 inot 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 arppove 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				

Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: WT-2

Date: 9/6/2022

		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 inot 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 arppove 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				

Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: WT-3

Date: 9/6/2022

		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 inot 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 arppove 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				

Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: WT-4

Date: 9/6/2022

		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 inot 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 arppove 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				

Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: WT-5

Date: 9/6/2022

		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 inot 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 arppove 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				

Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: WT-6

Date: 9/6/2022

		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 inot 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 arppove 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				

Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: WT-7

Date: 9/6/2022

		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 inot 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 arppove 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				

Surface Water Monitoring Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: ET-1

Date: 9/6/2022

		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 inot 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 arppove 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				

APPENDIX D

Statistical Analyses

GROUNDWATER STATS CONSULTING

February 28, 2023

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant McDonough Ash Pond (AP-2,3,4)
September 2022 Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the September 2022 Semi-Annual Groundwater Monitoring and Corrective Action Statistical summary of groundwater data for Georgia Power Company's Plant McDonough AP-2,3,4. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** DGWA-53, DGWA-70A, DGWA-71
- **Downgradient wells:** DGWC-2, DGWC-4, DGWC-5, DGWC-8, DGWC-9, DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-14, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-47, and DGWC-48

- **Assessment wells:** B-56, B-62, B-63, B-66, B-77, B-82, B-83, B-88, B-92, B-93, B-97, B-98, B-100, B-101D, B-102D, B-104D, B-106D, B-107D, B-108D, B-109D, B-111D, B-115D, and B-120D

The assessment wells were installed at various times during 2016-2020 as follows:

- **2016** - B-56, B-62, B-63, and B-66
- **2019** - B-77, B-82, B-83, B-88, B-92, and B-93
- **2020** – B-97, B-98, B-100, B-101D, B-102D, B-104D, B-106D, B-107D, B-108D, B-109D, and B-111D
- **2021** – B-115D and B-120D
- **2022** – B-122D

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager for Groundwater Stats Consulting. The analysis is prepared according to the recommended statistical methodology prepared in the Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance.

The Coal Combustion Residuals (CCR) program consists of the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient and assessment well/constituent pairs containing 100% non-detects follows this letter.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the previous screening and demonstrated that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests that the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods – Appendix III Parameters

Based on the earlier evaluation described above, the following methods were selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits. Non-detects are handled as follows:

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects 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, earlier data may require deselection 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 representative of the current background data population. Suspected outliers were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, several outliers were identified. In cases where the most recent value was identified as an outlier, values were not flagged in the database as they may represent a possible trend. If future values do not remain at similar concentrations, these values 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 laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Of the outliers identified by Tukey's method, only a few of these values were flagged in the database as all other values are similar to other measurements.

Additionally, when any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses were included with the previous screening and showed two statistically significant decreasing trends for the Appendix III parameters. The only trend identified in the upgradient wells was a statistically significant decreasing trend for sulfate in well DGWA-71. All trends noted were relatively low in magnitude when compared to average concentrations; therefore, no adjustments were made to the data sets.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells are not representative of the current background data population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified no variation among upgradient well data for fluoride, making this constituent eligible for interwell analyses. Variation was noted for boron, calcium, chloride, pH, sulfate, and TDS, which would indicate intrawell analyses may be most appropriate for these parameters. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Statistical Analysis of Appendix III Parameters – September 2022

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through September 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 September 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 a resample confirms the initial exceedance, a statistically significant increase is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result. Therefore, no exceedance is noted, and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Several prediction limit exceedances were noted for Appendix III parameters. A summary table of the interwell prediction limits follows this letter.

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells. Similar patterns that are present in both upgradient and downgradient wells are an indication of natural variability in groundwater quality unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing trends

- Boron: DGWC-4, DGWC-11, DGWC-17
- Calcium: DGWC-4, DGWC-5, DGWC-11, DGWC-19, DGWC-21, and DGWC-23
- Chloride: DGWC-5, DGWC-9, DGWC-15, and DGWC-20
- pH: DGWC-5 and DGWC-19
- Sulfate: DGWC-19
- TDS: DGWC-4, DGWC-5, DGWC-11, DGWC-17, and DGWC-19

Decreasing trends

- Boron: DGWC-2, DGWC-8, DGWC-9, DGWC-10, DGWC-12, DGWC-19, DGWC-20, DGWC-47, and DGWC-48
- Calcium: DGWC-12, DGWC-48, and DGWA-53 (upgradient)
- Chloride: DGWC-4, DGWC-19, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-48, and DGWA-53 (upgradient)
- Fluoride: DGWC-47 and DGWC-48
- pH: DGWC-9 and DGWC-47
- Sulfate: DGWC-2, DGWC-8, DGWC-12, DGWC-15, DGWC-20, DGWC-21 DGWC-42, DGWC-47, DGWC-48, DGWA-70A (upgradient), and DGWA-71 (upgradient)
- TDS: DGWC-12, DGWC-20, DGWC-48, and DGWA-53 (upgradient)

Statistical Analysis of Appendix IV Parameters – September 2022

For Appendix IV parameters, confidence intervals for each downgradient and assessment well/constituent pair with four or more samples were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. As mentioned above, downgradient and assessment well/constituent pairs that contain 100% non-detects do not require analysis. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis prior to constructing statistical limits. No new values were flagged during this analysis and a complete list of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell upper tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through September 2022 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution such as for combined radium. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. Note that in order to maintain

conservative limits from a regulatory perspective, non-parametric tolerance limits were used for cobalt.

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 accordance with the state requirements in each downgradient well (Figure H). Note that confidence intervals require a minimum of 4 samples and, in many cases, the assessment wells had insufficient samples at this time. The Sanitas software was used to calculate the tolerance limits and the confidence intervals.

Due to the required transformations to fit the data to a transformed normal distribution, the lower confidence limits resulted in negative numbers for some well/constituent pairs. Therefore, non-parametric confidence intervals, which are bound by reported high and low measurements within a given well, were constructed for these particular cases and may be found at the end of Figure H. This is a more conservative approach in that the lower confidence limit reflects the lowest reported measurement in the data set rather than a negative number.

Confidence intervals were compared to the GWPS prepared as described above. Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. A summary of the confidence intervals follows this letter. Exceedances were noted for the following well/constituent pairs:

- Arsenic: DGWC-9
- Beryllium: DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48, B-92, B-93, and B-115D
- Cobalt: DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, B-93, B-104D, B-109D, and B-115D
- Combined Radium 226 + 228: B-104D and B-109D
- Lithium: DGWC-47, DGWC-48, B-115D, and B-120D

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. When trends are present in upgradient trends, it is an indication of natural variability in groundwater quality unrelated to practices at the site. Note that trend tests were not included for beryllium at well B-115D, cobalt at well B-115D, combined radium 226 + 228 at well B-109D, and lithium at wells B-115D and B-120D because trend tests require a minimum of 5 samples and these well/constituent pairs do not yet meet the minimum sample requirement. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing

- Cobalt: DGWC-9

Decreasing

- Beryllium: DGWA-70A (upgradient) and DGWC-48
- Cobalt: DGWA-53 (upgradient), DGWC-8, DGWC-9, DGWC-10, DGWC-47, and DGWC-48
- Combined Radium 226 + 228: DGWA-53 (upgradient)
- Lithium: DGWC-47 and DGWC-48

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for McDonough AP-2,3,4. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Abdul Diane
Groundwater Analyst

Andrew T. Collins
Project Manager

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 11/22/2022 9:26 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Antimony (mg/L)
DGWC-11, DGWC-13, DGWC-20, DGWC-22, DGWC-42, DGWC-9, B-107D, B-108D, B-115D, B-66, B-82, B-83, B-88, B-92, B-97, B-98

Arsenic (mg/L)
DGWC-11, DGWC-13, DGWC-21, DGWC-23, B-100, B-102D, B-106D, B-107D, B-108D, B-66, B-88, B-98

Beryllium (mg/L)
DGWC-14, DGWC-2, B-108D, B-111D, B-66

Cadmium (mg/L)
DGWC-14, B-104D, B-107D, B-108D, B-109D, B-111D, B-62, B-66, B-77

Chromium (mg/L)
DGWC-14, B-102D, B-106D, B-107D, B-108D, B-111D, B-115D, B-120D, B-66, B-92, B-97

Cobalt (mg/L)
DGWC-14, B-109D

Lead (mg/L)
DGWC-22, B-106D, B-108D, B-109D, B-62, B-66, B-92, B-97, B-98

Mercury (mg/L)
DGWC-47, B-102D, B-106D, B-109D, B-115D, B-120D, B-62, B-63, B-66, B-77, B-83, B-97, B-98

Molybdenum (mg/L)
DGWC-10, DGWC-11, DGWC-12, DGWC-14, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-42, DGWC-47, DGWC-48, DGWC-5, DGWC-8, DGWC-9, B-100, B-106D, B-107D, B-108D, B-115D, B-56, B-62, B-63, B-77, B-82, B-83, B-92, B-93, B-97

Selenium (mg/L)
DGWC-11, DGWC-21, DGWC-23, DGWC-42, B-102D, B-106D, B-107D, B-109D, B-62, B-63, B-66

Thallium (mg/L)
DGWC-11, DGWC-13, DGWC-14, DGWC-15, DGWC-2, DGWC-21, DGWC-23, B-100, B-101D, B-102D, B-104D, B-106D, B-107D, B-108D, B-109D, B-111D, B-115D, B-120D, B-62, B-63, B-66, B-77, B-93, B-97, B-98

Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/19/2022, 2:45 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	DGWC-10	0.13	n/a	9/15/2022	0.42	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	9/15/2022	1.7	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	9/15/2022	3.3	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	9/15/2022	0.69	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	9/13/2022	1.5	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	9/14/2022	0.87	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	9/14/2022	2.4	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	9/20/2022	0.42	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	9/15/2022	4.2	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	9/15/2022	6.7	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	9/16/2022	4.2	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	9/20/2022	4.6	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	9/19/2022	4.8	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	9/13/2022	1.1	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	9/13/2022	0.18	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	9/13/2022	0.61	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	9/14/2022	5	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	9/15/2022	0.83	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	9/19/2022	0.8	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	9/15/2022	64.4	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	9/15/2022	66.6	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-12	40.3	n/a	9/15/2022	41.5	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	9/14/2022	105	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	9/15/2022	70.1	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	9/15/2022	82.2	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	9/16/2022	66.2	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	9/20/2022	90	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	9/19/2022	376	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	9/13/2022	65.3	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	9/14/2022	117	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	9/19/2022	45.1	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-11	8.2	n/a	9/15/2022	12.1	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-13	8.2	n/a	9/15/2022	13.7	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-15	8.2	n/a	9/13/2022	21.9	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-17	8.2	n/a	9/14/2022	19	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-19	8.2	n/a	9/14/2022	18.7	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-20	8.2	n/a	9/15/2022	26.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-21	8.2	n/a	9/15/2022	17.6	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-22	8.2	n/a	9/16/2022	18	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-23	8.2	n/a	9/20/2022	11.6	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-4	8.2	n/a	9/19/2022	11.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-42	8.2	n/a	9/13/2022	18.7	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-48	8.2	n/a	9/13/2022	8.9	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-5	8.2	n/a	9/14/2022	11.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-8	8.2	n/a	9/15/2022	8.3	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-9	8.2	n/a	9/19/2022	13.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-10	0.42	n/a	9/15/2022	0.84	Yes	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-20	0.42	n/a	9/15/2022	0.69	Yes	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-47	0.42	n/a	9/13/2022	0.47	Yes	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-48	0.42	n/a	9/13/2022	0.43	Yes	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-9	0.42	n/a	9/19/2022	0.8	Yes	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-10	6.669	5.189	9/15/2022	4.87	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-17	6.669	5.189	9/14/2022	5.08	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-19	6.669	5.189	9/14/2022	4.81	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-20	6.669	5.189	9/15/2022	4.58	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-42	6.669	5.189	9/13/2022	5.04	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-47	6.669	5.189	9/13/2022	4.15	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-48	6.669	5.189	9/13/2022	4.25	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-5	6.669	5.189	9/14/2022	4.75	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-9	6.669	5.189	9/19/2022	3.98	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-10	49	n/a	9/15/2022	229	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-11	49	n/a	9/15/2022	287	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-12	49	n/a	9/15/2022	191	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-13	49	n/a	9/15/2022	133	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-15	49	n/a	9/13/2022	145	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-17	49	n/a	9/14/2022	268	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-19	49	n/a	9/14/2022	388	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-2	49	n/a	9/20/2022	98.4	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2

Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/19/2022, 2:45 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate as SO4 (mg/L)	DGWC-20	49	n/a	9/15/2022	462	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	49	n/a	9/15/2022	268	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	49	n/a	9/16/2022	265	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	49	n/a	9/20/2022	242	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	49	n/a	9/19/2022	925	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	49	n/a	9/13/2022	326	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	49	n/a	9/13/2022	150	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	49	n/a	9/13/2022	309	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	49	n/a	9/14/2022	505	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	49	n/a	9/15/2022	134	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	49	n/a	9/19/2022	274	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	285.8	n/a	9/15/2022	414	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	285.8	n/a	9/15/2022	377	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	285.8	n/a	9/13/2022	289	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	285.8	n/a	9/14/2022	434	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	285.8	n/a	9/14/2022	572	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	285.8	n/a	9/15/2022	618	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	285.8	n/a	9/15/2022	440	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	285.8	n/a	9/16/2022	462	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	285.8	n/a	9/20/2022	511	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	285.8	n/a	9/19/2022	1670	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	285.8	n/a	9/13/2022	540	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	285.8	n/a	9/13/2022	527	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	285.8	n/a	9/14/2022	850	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	285.8	n/a	9/19/2022	456	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/19/2022, 2:45 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	**DGWC-10**	**0.13**	**n/a**	**9/15/2022**	**0.42**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-11**	**0.13**	**n/a**	**9/15/2022**	**1.7**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-12**	**0.13**	**n/a**	**9/15/2022**	**3.3**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-13**	**0.13**	**n/a**	**9/15/2022**	**0.69**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	DGWC-14	0.13	n/a	9/13/2022	0.091	No	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	**DGWC-15**	**0.13**	**n/a**	**9/13/2022**	**1.5**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-17**	**0.13**	**n/a**	**9/14/2022**	**0.87**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-19**	**0.13**	**n/a**	**9/14/2022**	**2.4**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-2**	**0.13**	**n/a**	**9/20/2022**	**0.42**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-20**	**0.13**	**n/a**	**9/15/2022**	**4.2**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-21**	**0.13**	**n/a**	**9/15/2022**	**6.7**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-22**	**0.13**	**n/a**	**9/16/2022**	**4.2**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-23**	**0.13**	**n/a**	**9/20/2022**	**4.6**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-4**	**0.13**	**n/a**	**9/19/2022**	**4.8**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-42**	**0.13**	**n/a**	**9/13/2022**	**1.1**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-47**	**0.13**	**n/a**	**9/13/2022**	**0.18**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-48**	**0.13**	**n/a**	**9/13/2022**	**0.61**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-5**	**0.13**	**n/a**	**9/14/2022**	**5**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-8**	**0.13**	**n/a**	**9/15/2022**	**0.83**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-9**	**0.13**	**n/a**	**9/19/2022**	**0.8**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**DGWC-10**	**40.3**	**n/a**	**9/15/2022**	**64.4**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**DGWC-11**	**40.3**	**n/a**	**9/15/2022**	**66.6**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**DGWC-12**	**40.3**	**n/a**	**9/15/2022**	**41.5**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	DGWC-13	40.3	n/a	9/15/2022	36.7	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-14	40.3	n/a	9/13/2022	11.2	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-15	40.3	n/a	9/13/2022	34.4	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-17	40.3	n/a	9/14/2022	16.4	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**DGWC-19**	**40.3**	**n/a**	**9/14/2022**	**105**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	DGWC-2	40.3	n/a	9/20/2022	37.8	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**DGWC-20**	**40.3**	**n/a**	**9/15/2022**	**70.1**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**DGWC-21**	**40.3**	**n/a**	**9/15/2022**	**82.2**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**DGWC-22**	**40.3**	**n/a**	**9/16/2022**	**66.2**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**DGWC-23**	**40.3**	**n/a**	**9/20/2022**	**90**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**DGWC-4**	**40.3**	**n/a**	**9/19/2022**	**376**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	DGWC-42	40.3	n/a	9/13/2022	34.2	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-47	40.3	n/a	9/13/2022	24.8	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**DGWC-48**	**40.3**	**n/a**	**9/13/2022**	**65.3**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**DGWC-5**	**40.3**	**n/a**	**9/14/2022**	**117**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	DGWC-8	40.3	n/a	9/15/2022	29.3	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**DGWC-9**	**40.3**	**n/a**	**9/19/2022**	**45.1**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	DGWC-10	8.2	n/a	9/15/2022	8.2	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	**DGWC-11**	**8.2**	**n/a**	**9/15/2022**	**12.1**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	DGWC-12	8.2	n/a	9/15/2022	8.2	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	**DGWC-13**	**8.2**	**n/a**	**9/15/2022**	**13.7**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	DGWC-14	8.2	n/a	9/13/2022	3.5	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	**DGWC-15**	**8.2**	**n/a**	**9/13/2022**	**21.9**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**DGWC-17**	**8.2**	**n/a**	**9/14/2022**	**19**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**DGWC-19**	**8.2**	**n/a**	**9/14/2022**	**18.7**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	DGWC-2	8.2	n/a	9/20/2022	2	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	**DGWC-20**	**8.2**	**n/a**	**9/15/2022**	**26.2**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**DGWC-21**	**8.2**	**n/a**	**9/15/2022**	**17.6**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**DGWC-22**	**8.2**	**n/a**	**9/16/2022**	**18**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**DGWC-23**	**8.2**	**n/a**	**9/20/2022**	**11.6**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**DGWC-4**	**8.2**	**n/a**	**9/19/2022**	**11.2**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**DGWC-42**	**8.2**	**n/a**	**9/13/2022**	**18.7**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	DGWC-47	8.2	n/a	9/13/2022	3.3	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	**DGWC-48**	**8.2**	**n/a**	**9/13/2022**	**8.9**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**DGWC-5**	**8.2**	**n/a**	**9/14/2022**	**11.2**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**DGWC-8**	**8.2**	**n/a**	**9/15/2022**	**8.3**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**DGWC-9**	**8.2**	**n/a**	**9/19/2022**	**13.2**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Fluoride, total (mg/L)	**DGWC-10**	**0.42**	**n/a**	**9/15/2022**	**0.84**	**Yes**	**54**	**n/a**	**n/a**	**50**	**n/a**	**n/a**	**0.0006272**	**NP Inter (normality) 1 of 2**
Fluoride, total (mg/L)	DGWC-11	0.42	n/a	9/15/2022	0.064J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-12	0.42	n/a	9/15/2022	0.078J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-13	0.42	n/a	9/15/2022	0.095J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-14	0.42	n/a	9/13/2022	0.059J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-15	0.42	n/a	9/13/2022	0.065J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-17	0.42	n/a	9/14/2022	0.1	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-19	0.42	n/a	9/14/2022	0.18	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/19/2022, 2:45 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	DGWC-2	0.42	n/a	9/20/2022	0.076J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	**DGWC-20**	**0.42**	**n/a**	**9/15/2022**	**0.69**	**Yes**	**54**	**n/a**	**n/a**	**50**	**n/a**	**n/a**	**0.0006272**	**NP Inter (normality) 1 of 2**
Fluoride, total (mg/L)	DGWC-21	0.42	n/a	9/15/2022	0.087J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-22	0.42	n/a	9/16/2022	0.068J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-23	0.42	n/a	9/20/2022	0.11	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-4	0.42	n/a	9/19/2022	0.061J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-42	0.42	n/a	9/13/2022	0.1ND	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	**DGWC-47**	**0.42**	**n/a**	**9/13/2022**	**0.47**	**Yes**	**54**	**n/a**	**n/a**	**50**	**n/a**	**n/a**	**0.0006272**	**NP Inter (normality) 1 of 2**
Fluoride, total (mg/L)	**DGWC-48**	**0.42**	**n/a**	**9/13/2022**	**0.43**	**Yes**	**54**	**n/a**	**n/a**	**50**	**n/a**	**n/a**	**0.0006272**	**NP Inter (normality) 1 of 2**
Fluoride, total (mg/L)	DGWC-5	0.42	n/a	9/14/2022	0.27	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-8	0.42	n/a	9/15/2022	0.077J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	**DGWC-9**	**0.42**	**n/a**	**9/19/2022**	**0.8**	**Yes**	**54**	**n/a**	**n/a**	**50**	**n/a**	**n/a**	**0.0006272**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-10**	**6.669**	**5.189**	**9/15/2022**	**4.87**	**Yes**	**56**	**1.772**	**0.05718**	**0**	**None**	**ln(x)**	**0.0001881**	**Param Inter 1 of 2**
pH, Field (SU)	DGWC-11	6.669	5.189	9/15/2022	5.52	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-12	6.669	5.189	9/15/2022	5.75	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-13	6.669	5.189	9/15/2022	5.56	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-14	6.669	5.189	9/13/2022	5.71	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-15	6.669	5.189	9/13/2022	5.82	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	**DGWC-17**	**6.669**	**5.189**	**9/14/2022**	**5.08**	**Yes**	**56**	**1.772**	**0.05718**	**0**	**None**	**ln(x)**	**0.0001881**	**Param Inter 1 of 2**
pH, Field (SU)	**DGWC-19**	**6.669**	**5.189**	**9/14/2022**	**4.81**	**Yes**	**56**	**1.772**	**0.05718**	**0**	**None**	**ln(x)**	**0.0001881**	**Param Inter 1 of 2**
pH, Field (SU)	DGWC-2	6.669	5.189	9/20/2022	5.98	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	**DGWC-20**	**6.669**	**5.189**	**9/15/2022**	**4.58**	**Yes**	**56**	**1.772**	**0.05718**	**0**	**None**	**ln(x)**	**0.0001881**	**Param Inter 1 of 2**
pH, Field (SU)	DGWC-21	6.669	5.189	9/15/2022	5.69	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-22	6.669	5.189	9/16/2022	5.62	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-23	6.669	5.189	9/20/2022	6	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-4	6.669	5.189	9/19/2022	5.76	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	**DGWC-42**	**6.669**	**5.189**	**9/13/2022**	**5.04**	**Yes**	**56**	**1.772**	**0.05718**	**0**	**None**	**ln(x)**	**0.0001881**	**Param Inter 1 of 2**
pH, Field (SU)	**DGWC-47**	**6.669**	**5.189**	**9/13/2022**	**4.15**	**Yes**	**56**	**1.772**	**0.05718**	**0**	**None**	**ln(x)**	**0.0001881**	**Param Inter 1 of 2**
pH, Field (SU)	**DGWC-48**	**6.669**	**5.189**	**9/13/2022**	**4.25**	**Yes**	**56**	**1.772**	**0.05718**	**0**	**None**	**ln(x)**	**0.0001881**	**Param Inter 1 of 2**
pH, Field (SU)	**DGWC-5**	**6.669**	**5.189**	**9/14/2022**	**4.75**	**Yes**	**56**	**1.772**	**0.05718**	**0**	**None**	**ln(x)**	**0.0001881**	**Param Inter 1 of 2**
pH, Field (SU)	DGWC-8	6.669	5.189	9/15/2022	5.2	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	**DGWC-9**	**6.669**	**5.189**	**9/19/2022**	**3.98**	**Yes**	**56**	**1.772**	**0.05718**	**0**	**None**	**ln(x)**	**0.0001881**	**Param Inter 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-10**	**49**	**n/a**	**9/15/2022**	**229**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-11**	**49**	**n/a**	**9/15/2022**	**287**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-12**	**49**	**n/a**	**9/15/2022**	**191**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-13**	**49**	**n/a**	**9/15/2022**	**133**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	DGWC-14	49	n/a	9/13/2022	41.2	No	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**DGWC-15**	**49**	**n/a**	**9/13/2022**	**145**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-17**	**49**	**n/a**	**9/14/2022**	**268**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-19**	**49**	**n/a**	**9/14/2022**	**388**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-2**	**49**	**n/a**	**9/20/2022**	**98.4**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-20**	**49**	**n/a**	**9/15/2022**	**462**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-21**	**49**	**n/a**	**9/15/2022**	**268**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-22**	**49**	**n/a**	**9/16/2022**	**265**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-23**	**49**	**n/a**	**9/20/2022**	**242**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-4**	**49**	**n/a**	**9/19/2022**	**925**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-42**	**49**	**n/a**	**9/13/2022**	**326**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-47**	**49**	**n/a**	**9/13/2022**	**150**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-48**	**49**	**n/a**	**9/13/2022**	**309**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-5**	**49**	**n/a**	**9/14/2022**	**505**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-8**	**49**	**n/a**	**9/15/2022**	**134**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-9**	**49**	**n/a**	**9/19/2022**	**274**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	285.8	n/a	9/15/2022	280	No	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-11**	**285.8**	**n/a**	**9/15/2022**	**414**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-12**	**285.8**	**n/a**	**9/15/2022**	**377**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-13	285.8	n/a	9/15/2022	216	No	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-14	285.8	n/a	9/13/2022	80	No	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-15**	**285.8**	**n/a**	**9/13/2022**	**289**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-17**	**285.8**	**n/a**	**9/14/2022**	**434**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-19**	**285.8**	**n/a**	**9/14/2022**	**572**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-2	285.8	n/a	9/20/2022	230	No	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-20**	**285.8**	**n/a**	**9/15/2022**	**618**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-21**	**285.8**	**n/a**	**9/15/2022**	**440**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-22**	**285.8**	**n/a**	**9/16/2022**	**462**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-23**	**285.8**	**n/a**	**9/20/2022**	**511**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-4**	**285.8**	**n/a**	**9/19/2022**	**1670**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-42**	**285.8**	**n/a**	**9/13/2022**	**540**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-47	285.8	n/a	9/13/2022	277	No	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/19/2022, 2:45 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	**DGWC-48**	**285.8**	**n/a**	**9/13/2022**	**527**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-5**	**285.8**	**n/a**	**9/14/2022**	**850**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	285.8	n/a	9/15/2022	234	No	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-9**	**285.8**	**n/a**	**9/19/2022**	**456**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/19/2022, 2:50 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWC-10	-0.6423	-83	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-11	0.095	88	53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-12	-1.28	-89	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-17	0.0358	60	58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-19	-0.1619	-61	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-2	-0.2101	-114	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-20	-0.5955	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-4	0.2684	71	53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-47	-0.03016	-96	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-48	-0.06746	-88	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-8	-0.3705	-92	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-9	-0.2529	-99	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-53 (bg)	-3.715	-76	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-11	4.261	83	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-12	-10.06	-78	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-19	6.369	102	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-21	1.958	62	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-23	2.115	61	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-4	22.28	73	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-48	-6.895	-100	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-5	6.333	65	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-53 (bg)	-0.1771	-85	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-15	0.4392	59	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-19	-3.747	-98	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-20	2.426	101	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-21	-1.053	-91	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-22	-2.126	-93	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-23	-0.8986	-101	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-4	-3.414	-114	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-42	-2.91	-102	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-48	-1.826	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-5	0.3411	57	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-9	0.626	69	58	Yes	16	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-47	-0.1679	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-48	-0.1553	-91	-68	Yes	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.04093	79	68	Yes	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-47	-0.1631	-73	-68	Yes	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.07276	69	68	Yes	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-9	-0.02181	-104	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-70A (bg)	-0.1765	-60	-58	Yes	16	43.75	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-71 (bg)	-1.051	-88	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-12	-42.42	-73	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-15	-8.479	-82	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-19	17.24	77	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-2	-44.93	-112	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-20	-45.89	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-21	-7.273	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-42	-13.23	-61	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-47	-44.25	-93	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-48	-52.03	-101	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-8	-66.86	-98	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-21.09	-79	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	28.16	64	53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	-58.28	-77	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	10.39	59	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	31.56	79	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-55.19	-94	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	79.41	70	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-57.63	-104	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	43.17	81	53	Yes	15	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/19/2022, 2:50 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWA-53 (bg)	-0.003305	-39	-58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-70A (bg)	0	33	58	No	16	56.25	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-71 (bg)	0.0007215	16	53	No	15	26.67	n/a	n/a	0.01	NP
Boron, total (mg/L)	**DGWC-10**	**-0.6423**	**-83**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**DGWC-11**	**0.095**	**88**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**DGWC-12**	**-1.28**	**-89**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	DGWC-13	-0.05906	-47	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-15	0.005901	15	58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**DGWC-17**	**0.0358**	**60**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**DGWC-19**	**-0.1619**	**-61**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**DGWC-2**	**-0.2101**	**-114**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**DGWC-20**	**-0.5955**	**-84**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	DGWC-21	0.2627	34	58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-22	0.06805	27	58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-23	0.08846	30	58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**DGWC-4**	**0.2684**	**71**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	DGWC-42	-0.01051	-20	-58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**DGWC-47**	**-0.03016**	**-96**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**DGWC-48**	**-0.06746**	**-88**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	DGWC-5	-0.04623	-8	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**DGWC-8**	**-0.3705**	**-92**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**DGWC-9**	**-0.2529**	**-99**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**DGWA-53 (bg)**	**-3.715**	**-76**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	DGWA-70A (bg)	-0.03479	-12	-58	No	16	6.25	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-71 (bg)	-0.4482	-35	-53	No	15	6.667	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-10	-1.696	-29	-53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**DGWC-11**	**4.261**	**83**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**DGWC-12**	**-10.06**	**-78**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**DGWC-19**	**6.369**	**102**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	DGWC-20	-4.337	-42	-58	No	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**DGWC-21**	**1.958**	**62**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	DGWC-22	0.2951	21	58	No	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**DGWC-23**	**2.115**	**61**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**DGWC-4**	**22.28**	**73**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**DGWC-48**	**-6.895**	**-100**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**DGWC-5**	**6.333**	**65**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	DGWC-9	-5.436	-52	-58	No	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**DGWA-53 (bg)**	**-0.1771**	**-85**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	DGWA-70A (bg)	-0.06575	-45	-58	No	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-71 (bg)	0.3259	40	58	No	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-11	0.5735	41	53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-13	-0.2472	-13	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**DGWC-15**	**0.4392**	**59**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	DGWC-17	0.3354	28	58	No	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**DGWC-19**	**-3.747**	**-98**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**DGWC-20**	**2.426**	**101**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**DGWC-21**	**-1.053**	**-91**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**DGWC-22**	**-2.126**	**-93**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**DGWC-23**	**-0.8986**	**-101**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**DGWC-4**	**-3.414**	**-114**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**DGWC-42**	**-2.91**	**-102**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**DGWC-48**	**-1.826**	**-84**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**DGWC-5**	**0.3411**	**57**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	DGWC-8	-0.2292	-43	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**DGWC-9**	**0.626**	**69**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride, total (mg/L)	DGWA-53 (bg)	-0.0006648	-9	-74	No	19	10.53	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-70A (bg)	0	47	63	No	17	64.71	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-71 (bg)	0	22	68	No	18	77.78	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-10	0	4	68	No	18	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-20	0.04015	19	68	No	18	5.556	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	**DGWC-47**	**-0.1679**	**-89**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride, total (mg/L)	**DGWC-48**	**-0.1553**	**-91**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride, total (mg/L)	DGWC-9	0	7	68	No	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-53 (bg)	0.01874	12	74	No	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-70A (bg)	-0.02257	-32	-68	No	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-71 (bg)	0	1	74	No	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-10	0.02347	21	74	No	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-17	0	4	74	No	19	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/19/2022, 2:50 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH, Field (SU)	**DGWC-19**	**0.04093**	**79**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	DGWC-20	-0.02109	-57	-63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-42	-0.02876	-52	-68	No	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	**DGWC-47**	**-0.1631**	**-73**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	DGWC-48	-0.03316	-43	-68	No	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	**DGWC-5**	**0.07276**	**69**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**DGWC-9**	**-0.02181**	**-104**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	DGWA-53 (bg)	-0.7643	-32	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**DGWA-70A (bg)**	**-0.1765**	**-60**	**-58**	**Yes**	**16**	**43.75**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**DGWA-71 (bg)**	**-1.051**	**-88**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	DGWC-10	-30.79	-57	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-11	11.92	48	53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**DGWC-12**	**-42.42**	**-73**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	DGWC-13	-8.581	-53	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**DGWC-15**	**-8.479**	**-82**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	DGWC-17	0	2	58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**DGWC-19**	**17.24**	**77**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**DGWC-2**	**-44.93**	**-112**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**DGWC-20**	**-45.89**	**-84**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**DGWC-21**	**-7.273**	**-62**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	DGWC-22	-5.891	-21	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-23	0.2684	10	58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-4	27.81	42	58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**DGWC-42**	**-13.23**	**-61**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**DGWC-47**	**-44.25**	**-93**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**DGWC-48**	**-52.03**	**-101**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	DGWC-5	4.117	7	53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**DGWC-8**	**-66.86**	**-98**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	DGWC-9	-11.5	-36	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWA-53 (bg)**	**-21.09**	**-79**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWA-70A (bg)	-2.113	-12	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-71 (bg)	-3.712	-40	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-11**	**28.16**	**64**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-12**	**-58.28**	**-77**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	-0.7883	-3	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-17**	**10.39**	**59**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-19**	**31.56**	**79**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-20**	**-55.19**	**-94**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	-4.363	-17	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	-5.96	-47	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	2.758	21	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-4**	**79.41**	**70**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	-19.72	-45	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-48**	**-57.63**	**-104**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-5**	**43.17**	**81**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	1.122	3	58	No	16	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/18/2022, 1:43 AM

Constituent	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	0.003	n/a	n/a	n/a	n/a	50	82	n/a	0.07694	NP Inter(NDs)
Arsenic (mg/L)	0.0054	n/a	n/a	n/a	n/a	50	74	n/a	0.07694	NP Inter(normality)
Barium (mg/L)	0.19	n/a	n/a	n/a	n/a	50	0	n/a	0.07694	NP Inter(normality)
Beryllium (mg/L)	0.0009	n/a	n/a	n/a	n/a	51	58.82	n/a	0.0731	NP Inter(normality)
Cadmium (mg/L)	0.0005	n/a	n/a	n/a	n/a	50	94	n/a	0.07694	NP Inter(NDs)
Chromium (mg/L)	0.005	n/a	n/a	n/a	n/a	49	65.31	n/a	0.08099	NP Inter(normality)
Cobalt (mg/L)	0.0322	n/a	n/a	n/a	n/a	50	40	n/a	0.07694	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	4.8	n/a	n/a	n/a	n/a	52	0	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.42	n/a	n/a	n/a	n/a	54	50	n/a	0.06267	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	n/a	n/a	50	82	n/a	0.07694	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	n/a	n/a	50	36	n/a	0.07694	NP Inter(normality)
Mercury (mg/L)	0.0002	n/a	n/a	n/a	n/a	50	84	n/a	0.07694	NP Inter(NDs)
Molybdenum (mg/L)	0.0409	n/a	n/a	n/a	n/a	50	64	n/a	0.07694	NP Inter(normality)
Selenium (mg/L)	0.005	n/a	n/a	n/a	n/a	50	100	n/a	0.07694	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	n/a	n/a	50	96	n/a	0.07694	NP Inter(NDs)

PLANT MCDONOUGH ASH POND 2, 3, 4 GWPS TABLE				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.0054	0.01
Barium, Total (mg/L)	2		0.19	2
Beryllium, Total (mg/L)	0.004		0.0009	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.005	0.1
Cobalt, Total (mg/L)		0.006	0.032	0.032
Combined Radium, Total (pCi/L)	5		4.8	5
Fluoride, Total (mg/L)	4		0.42	4
Lead, Total (mg/L)		0.015	0.001	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.041	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Highlighted cells indicated Background is higher than MCLs or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

Confidence Intervals - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.0284	0.01657	0.01	Yes	17	0.02248	0.009441	5.882	None	No	0.01	Param.
Beryllium (mg/L)	B-115D	0.01285	0.009146	0.004	Yes	4	0.011	0.0008165	0	None	No	0.01	Param.
Beryllium (mg/L)	B-92	0.02243	0.01277	0.004	Yes	5	0.0176	0.002881	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.017	0.0069	0.004	Yes	7	0.0147	0.003582	0	None	No	0.008	NP (normality)
Beryllium (mg/L)	DGWC-10	0.009022	0.005928	0.004	Yes	16	0.007475	0.002377	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01243	0.009111	0.004	Yes	17	0.01077	0.002649	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.008951	0.007416	0.004	Yes	17	0.008218	0.001265	0	None	x^(1/3)	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008813	0.006512	0.004	Yes	16	0.007663	0.001768	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005802	0.004939	0.004	Yes	17	0.005371	0.0006881	0	None	No	0.01	Param.
Cobalt (mg/L)	B-104D	0.2056	0.09109	0.032	Yes	6	0.1483	0.04167	0	None	No	0.01	Param.
Cobalt (mg/L)	B-115D	0.3375	0.1875	0.032	Yes	4	0.2625	0.03304	0	None	No	0.01	Param.
Cobalt (mg/L)	B-56	0.05346	0.04121	0.032	Yes	6	0.04733	0.004457	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.05067	0.03805	0.032	Yes	7	0.04436	0.005313	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.06739	0.05889	0.032	Yes	7	0.06314	0.003579	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.193	0.076	0.032	Yes	16	0.1441	0.05294	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-19	0.05329	0.04968	0.032	Yes	17	0.05148	0.002882	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6845	0.4878	0.032	Yes	17	0.5919	0.1635	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.369	0.2475	0.032	Yes	17	0.3083	0.09696	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.4925	0.3864	0.032	Yes	17	0.4394	0.08465	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.08147	0.0369	0.032	Yes	16	0.05919	0.03425	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.208	0.1515	0.032	Yes	17	0.1797	0.04503	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-104D	18.51	8.768	5	Yes	5	13.64	2.907	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-109D	18.75	6.021	5	Yes	4	12.39	2.804	0	None	No	0.01	Param.
Lithium (mg/L)	B-115D	0.09241	0.07609	0.04	Yes	4	0.08425	0.003594	0	None	No	0.01	Param.
Lithium (mg/L)	B-120D	0.09244	0.06756	0.04	Yes	4	0.08	0.005477	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07239	0.05682	0.04	Yes	17	0.06461	0.01243	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1245	0.1056	0.04	Yes	17	0.1151	0.01511	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	B-100	0.003	0.0013	0.006	No	6	0.0025	0.0007849	66.67	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-101D	0.00195	0.0001053	0.006	No	5	0.001422	0.00104	20	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	B-102D	0.003	0.0016	0.006	No	6	0.002767	0.0005715	83.33	Kaplan-Meier	No	0.0155	NP (NDs)
Antimony (mg/L)	B-104D	0.00106	0.0005099	0.006	No	6	0.001507	0.001169	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Antimony (mg/L)	B-106D	0.003	0.00048	0.006	No	5	0.002496	0.001127	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-109D	0.004	0.00042	0.006	No	5	0.002252	0.001543	40	None	No	0.031	NP (selected)
Antimony (mg/L)	B-111D	0.003	0.0006	0.006	No	6	0.0026	0.0009798	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-120D	0.003	0.00029	0.006	No	4	0.002323	0.001355	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	B-56	0.003	0.0011	0.006	No	6	0.002683	0.0007757	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.00046	0.006	No	9	0.002718	0.0008467	88.89	None	No	0.002	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.00066	0.006	No	6	0.00261	0.0009553	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00036	0.006	No	8	0.002053	0.00131	62.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	B-93	0.003	0.00096	0.006	No	6	0.002393	0.0009501	66.67	None	No	0.0155	NP (NDs)
Antimony (mg/L)	DGWC-10	0.003	0.0021	0.006	No	16	0.002944	0.000225	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	18	0.00285	0.0006364	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	17	0.002888	0.0004608	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	17	0.002709	0.0008233	88.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	17	0.00285	0.0006185	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.00036	0.006	No	17	0.002845	0.0006403	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	17	0.002859	0.0005821	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	17	0.0029	0.0004123	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	17	0.002865	0.0005578	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No	16	0.002554	0.0009598	81.25	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No	17	0.002894	0.0004366	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	17	0.002776	0.00068	88.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	16	0.002739	0.0007457	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.00046	0.006	No	16	0.002841	0.000635	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-101D	0.005	0.0017	0.01	No	5	0.00434	0.001476	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	B-104D	0.003563	0.001776	0.01	No	6	0.003817	0.001393	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	B-109D	0.005	0.0026	0.01	No	5	0.00452	0.001073	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	B-111D	0.005	0.0022	0.01	No	6	0.003733	0.001408	50	None	No	0.0155	NP (normality)
Arsenic (mg/L)	B-115D	0.003454	0.001412	0.01	No	4	0.003075	0.00136	25	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-120D	0.005	0.0016	0.01	No	4	0.00415	0.0017	75	Kaplan-Meier	No	0.0625	NP (NDs)
Arsenic (mg/L)	B-56	0.004698	0.00253	0.01	No	6	0.003917	0.0009109	16.67	Kaplan-Meier	x^2	0.01	Param.
Arsenic (mg/L)	B-62	0.005	0.0033	0.01	No	9	0.004811	0.0005667	88.89	Kaplan-Meier	No	0.002	NP (NDs)
Arsenic (mg/L)	B-63	0.005	0.0022	0.01	No	6	0.004533	0.001143	83.33	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	B-77	0.005	0.002	0.01	No	8	0.003425	0.001353	37.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	B-82	0.005	0.003	0.01	No	8	0.00475	0.0007071	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	B-83	0.005	0.0014	0.01	No	7	0.004486	0.001361	85.71	None	No	0.008	NP (NDs)
Arsenic (mg/L)	B-93	0.002828	0.001247	0.01	No	6	0.0035	0.001702	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-10	0.006739	0.003524	0.01	No	16	0.005131	0.002471	6.25	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	18	0.004513	0.001418	88.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	17	0.004729	0.001118	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	17	0.004267	0.001638	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0011	0.01	No	17	0.003372	0.002014	58.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.00192	0.0009543	0.01	No	17	0.002421	0.001611	23.53	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No	17	0.004458	0.001241	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01651	0.008455	0.01	No	17	0.01248	0.006428	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No	17	0.004765	0.0009701	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0008	0.01	No	16	0.003931	0.001916	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	17	0.004518	0.001363	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.002756	0.001467	0.01	No	17	0.002824	0.001533	23.53	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.0012	0.01	No	17	0.003417	0.001968	58.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.008917	0.002832	0.01	No	16	0.007744	0.009484	12.5	None	ln(x)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.005	0.0012	0.01	No	16	0.003854	0.00177	68.75	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**DGWC-9**	**0.0284**	**0.01657**	**0.01**	**Yes**	**17**	**0.02248**	**0.009441**	**5.882**	**None**	**No**	**0.01**	**Param.**
Barium (mg/L)	B-100	0.02353	0.01731	2	No	6	0.02067	0.002875	0	None	x^4	0.01	Param.
Barium (mg/L)	B-101D	0.076	0.062	2	No	5	0.0682	0.007155	0	None	No	0.031	NP (normality)
Barium (mg/L)	B-102D	0.02392	0.01908	2	No	6	0.0215	0.001761	0	None	No	0.01	Param.
Barium (mg/L)	B-104D	0.026	0.021	2	No	6	0.0225	0.002074	0	None	No	0.0155	NP (normality)
Barium (mg/L)	B-106D	0.0222	0.0194	2	No	5	0.0208	0.0008367	0	None	No	0.01	Param.
Barium (mg/L)	B-107D	0.1456	0.04876	2	No	5	0.0972	0.02891	0	None	No	0.01	Param.
Barium (mg/L)	B-108D	0.06692	0.05148	2	No	5	0.0592	0.004604	0	None	No	0.01	Param.
Barium (mg/L)	B-109D	0.06745	0.02078	2	No	5	0.048	0.01528	0	None	x^2	0.01	Param.
Barium (mg/L)	B-111D	0.04313	0.02387	2	No	6	0.0335	0.007007	0	None	No	0.01	Param.
Barium (mg/L)	B-115D	0.01963	0.01187	2	No	4	0.01575	0.001708	0	None	No	0.01	Param.
Barium (mg/L)	B-120D	0.05224	0.009261	2	No	4	0.03075	0.009465	0	None	No	0.01	Param.
Barium (mg/L)	B-56	0.03046	0.02554	2	No	6	0.028	0.001789	0	None	No	0.01	Param.
Barium (mg/L)	B-62	0.02611	0.01944	2	No	9	0.02278	0.003456	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.03126	0.01807	2	No	6	0.02467	0.004803	0	None	No	0.01	Param.
Barium (mg/L)	B-66	0.02089	0.01578	2	No	6	0.01833	0.001862	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.1246	0.09166	2	No	8	0.1081	0.01553	0	None	No	0.01	Param.
Barium (mg/L)	B-82	0.03001	0.02027	2	No	7	0.02514	0.0041	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.044	0.02231	2	No	7	0.03257	0.01095	0	None	ln(x)	0.01	Param.
Barium (mg/L)	B-88	0.02288	0.015	2	No	6	0.01917	0.002858	0	None	x^2	0.01	Param.
Barium (mg/L)	B-93	0.0201	0.01423	2	No	6	0.01717	0.002137	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.02872	0.02237	2	No	16	0.02554	0.004884	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06496	0.05421	2	No	16	0.05959	0.008265	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03435	0.0249	2	No	18	0.03004	0.008517	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03235	0.02732	2	No	16	0.02888	0.006884	6.25	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06278	0.05846	2	No	17	0.06062	0.003446	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.04986	0.04375	2	No	17	0.04681	0.00487	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05427	0.03952	2	No	17	0.04689	0.01177	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02563	0.02224	2	No	17	0.02394	0.002698	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02255	0.02124	2	No	17	0.02188	0.001054	0	None	x^2	0.01	Param.
Barium (mg/L)	DGWC-20	0.01578	0.009998	2	No	17	0.01289	0.004613	5.882	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.024	2	No	17	0.02573	0.001551	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03693	0.03136	2	No	17	0.03415	0.004449	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.02336	0.01875	2	No	17	0.02118	0.003931	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03584	0.03236	2	No	16	0.0341	0.002676	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.01995	0.01598	2	No	17	0.01796	0.003173	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-47	0.01982	0.01629	2	No	17	0.01805	0.002812	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.0155	0.013	2	No	17	0.01371	0.0009565	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-5	0.01829	0.0167	2	No	15	0.01749	0.001173	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03641	0.02521	2	No	16	0.03081	0.008607	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.01629	0.015	2	No	17	0.01565	0.001031	0	None	No	0.01	Param.
Beryllium (mg/L)	B-100	0.0005956	0.0003544	0.004	No	6	0.000475	0.00008781	0	None	No	0.01	Param.
Beryllium (mg/L)	B-101D	0.00008447	0.00004593	0.004	No	5	0.0000652	0.0000115	0	None	No	0.01	Param.
Beryllium (mg/L)	B-102D	0.001386	0.0009811	0.004	No	6	0.001183	0.0001472	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.001558	0.001109	0.004	No	6	0.001333	0.0001633	0	None	No	0.01	Param.
Beryllium (mg/L)	B-106D	0.0001368	0.0001032	0.004	No	5	0.00012	0.00001	0	None	No	0.01	Param.
Beryllium (mg/L)	B-107D	0.00025	0.00005	0.004	No	5	0.00021	0.00008944	80	None	No	0.031	NP (NDs)
Beryllium (mg/L)	B-109D	0.00025	0.000059	0.004	No	5	0.0001078	0.00007994	20	None	No	0.031	NP (normality)
Beryllium (mg/L)	**B-115D**	**0.01285**	**0.009146**	**0.004**	**Yes**	**4**	**0.011**	**0.0008165**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	B-120D	0.0011	0.00085	0.004	No	4	0.00098	0.0001388	0	None	No	0.0625	NP (normality)
Beryllium (mg/L)	B-56	0.00132	0.001113	0.004	No	6	0.001217	0.00007528	0	None	No	0.01	Param.
Beryllium (mg/L)	B-62	0.0001362	0.00009267	0.004	No	10	0.0001448	0.00005955	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Beryllium (mg/L)	B-63	0.0004849	0.0002851	0.004	No	8	0.000385	0.00009426	12.5	None	No	0.01	Param.
Beryllium (mg/L)	B-77	0.0001381	0.00005882	0.004	No	8	0.000155	0.00008448	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Beryllium (mg/L)	B-82	0.002028	0.0012	0.004	No	7	0.001614	0.0003485	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	B-83	0.0005687	0.0002575	0.004	No	7	0.0004071	0.0001421	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	B-88	0.003921	0.0003565	0.004	No	6	0.001872	0.00159	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	**B-92**	**0.02243**	**0.01277**	**0.004**	**Yes**	**5**	**0.0176**	**0.002881**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**B-93**	**0.017**	**0.0069**	**0.004**	**Yes**	**7**	**0.0147**	**0.003582**	**0**	**None**	**No**	**0.008**	**NP (normality)**
Beryllium (mg/L)	B-97	0.001898	0.0005068	0.004	No	6	0.001508	0.000628	16.67	Kaplan-Meier	x^3	0.01	Param.
Beryllium (mg/L)	B-98	0.00087	0.000062	0.004	No	6	0.0004167	0.0003078	50	None	No	0.0155	NP (selected)
Beryllium (mg/L)	**DGWC-10**	**0.009022**	**0.005928**	**0.004**	**Yes**	**16**	**0.007475**	**0.002377**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	DGWC-11	0.00025	0.00013	0.004	No	16	0.00027	0.0003324	43.75	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00025	0.00016	0.004	No	18	0.0002777	0.0003179	16.67	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.00025	0.000073	0.004	No	16	0.0002519	0.000344	56.25	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.0015	0.00022	0.004	No	17	0.0003105	0.0003101	88.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.0006196	0.0004888	0.004	No	17	0.0005447	0.0001249	11.76	None	x^2	0.01	Param.
Beryllium (mg/L)	DGWC-19	0.002008	0.00171	0.004	No	17	0.001797	0.0004339	11.76	None	x^3	0.01	Param.
Beryllium (mg/L)	DGWC-20	0.005273	0.002486	0.004	No	17	0.003879	0.002224	11.76	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0002	0.00015	0.004	No	17	0.0002488	0.0003249	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.00023	0.00014	0.004	No	17	0.0002506	0.0003242	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	17	0.0004912	0.0002804	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00033	0.00019	0.004	No	16	0.0003069	0.0003249	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002711	0.002083	0.004	No	17	0.002326	0.0006783	5.882	None	x^2	0.01	Param.
Beryllium (mg/L)	**DGWC-47**	**0.01243**	**0.009111**	**0.004**	**Yes**	**17**	**0.01077**	**0.002649**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-48**	**0.008951**	**0.007416**	**0.004**	**Yes**	**17**	**0.008218**	**0.001265**	**0**	**None**	**x^(1/3)**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-5**	**0.008813**	**0.006512**	**0.004**	**Yes**	**16**	**0.007663**	**0.001768**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	DGWC-8	0.002763	0.001459	0.004	No	16	0.002174	0.001104	6.25	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	**DGWC-9**	**0.005802**	**0.004939**	**0.004**	**Yes**	**17**	**0.005371**	**0.0006881**	**0**	**None**	**No**	**0.01**	**Param.**
Cadmium (mg/L)	B-100	0.00059	0.00027	0.005	No	6	0.00038	0.0001628	0	None	No	0.0155	NP (normality)
Cadmium (mg/L)	B-101D	0.0005	0.00011	0.005	No	5	0.000422	0.0001744	80	None	No	0.031	NP (NDs)
Cadmium (mg/L)	B-102D	0.0009434	0.0006999	0.005	No	6	0.0008217	0.00008864	0	None	No	0.01	Param.
Cadmium (mg/L)	B-106D	0.0002669	0.0001181	0.005	No	5	0.000254	0.0001445	20	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	B-115D	0.0005302	0.00008476	0.005	No	4	0.0003075	0.00009811	0	None	No	0.01	Param.
Cadmium (mg/L)	B-120D	0.0013	0.00084	0.005	No	4	0.00107	0.0001013	0	None	No	0.01	Param.
Cadmium (mg/L)	B-56	0.0003025	0.0002375	0.005	No	6	0.00027	0.00002366	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0005	0.00014	0.005	No	6	0.000345	0.0001734	50	None	No	0.0155	NP (normality)
Cadmium (mg/L)	B-82	0.0007742	0.0004201	0.005	No	7	0.0005971	0.0001491	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0003836	0.000265	0.005	No	7	0.0003243	0.00004995	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.0065	0.00022	0.005	No	6	0.002553	0.002222	0	None	No	0.0155	NP (selected)
Cadmium (mg/L)	B-93	0.0008701	0.0007199	0.005	No	6	0.000795	0.00005468	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001152	0.0007597	0.005	No	16	0.0009556	0.0003012	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00016	0.005	No	16	0.0004106	0.0001601	75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.000327	0.0002145	0.005	No	18	0.0003878	0.0001897	27.78	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	16	0.000455	0.0001249	87.5	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00013	0.005	No	17	0.0004371	0.0002236	76.47	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.00033	0.00023	0.005	No	17	0.0002935	0.00008616	11.76	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.00041	0.00034	0.005	No	17	0.0004141	0.0001576	11.76	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.0005	0.00014	0.005	No	17	0.0003824	0.0002229	41.18	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-20	0.002291	0.00178	0.005	No	17	0.002035	0.0004076	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.0006131	0.0003396	0.005	No	17	0.00058	0.0002051	17.65	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0006868	0.0004708	0.005	No	17	0.0005788	0.0001724	11.76	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0003	0.00018	0.005	No	17	0.0002788	0.0002044	11.76	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.0008536	0.0006414	0.005	No	16	0.0007475	0.0001631	12.5	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.001003	0.0004734	0.005	No	17	0.0007894	0.0005327	11.76	None	x^(1/3)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.002104	0.001272	0.005	No	17	0.001688	0.0006642	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.0036	0.0026	0.005	No	17	0.003435	0.001595	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-5	0.0008361	0.0004889	0.005	No	16	0.0006625	0.0002669	12.5	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002443	0.001819	0.005	No	16	0.002131	0.0004799	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006783	0.000519	0.005	No	17	0.0006024	0.0001347	11.76	None	sqrt(x)	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	B-100	0.005	0.00057	0.1	No	6	0.003585	0.002195	66.67	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-101D	0.005	0.0014	0.1	No	5	0.00428	0.00161	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	B-104D	0.005	0.0011	0.1	No	6	0.00435	0.001592	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-109D	0.005	0.00061	0.1	No	5	0.004122	0.001963	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	B-56	0.005	0.00059	0.1	No	6	0.003065	0.00214	50	None	No	0.0155	NP (normality)
Chromium (mg/L)	B-62	0.005	0.00098	0.1	No	9	0.004553	0.00134	88.89	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.00064	0.1	No	6	0.004273	0.00178	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-77	0.005	0.00068	0.1	No	8	0.003057	0.002123	50	None	No	0.004	NP (normality)
Chromium (mg/L)	B-82	0.005	0.0011	0.1	No	7	0.004443	0.001474	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	B-83	0.005285	0.001944	0.1	No	7	0.003614	0.001406	0	None	No	0.01	Param.
Chromium (mg/L)	B-88	0.005	0.00085	0.1	No	6	0.003158	0.002036	50	None	No	0.0155	NP (normality)
Chromium (mg/L)	B-93	0.005	0.00057	0.1	No	6	0.002888	0.00232	50	None	No	0.0155	NP (normality)
Chromium (mg/L)	DGWC-10	0.005	0.00078	0.1	No	16	0.002412	0.002073	37.5	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.00061	0.1	No	16	0.003899	0.001969	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No	18	0.004552	0.001305	88.89	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.005	0.00074	0.1	No	16	0.003931	0.001914	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.0048	0.1	No	17	0.004491	0.00225	76.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0033	0.0024	0.1	No	17	0.002994	0.0008295	11.76	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.0031	0.0024	0.1	No	17	0.003329	0.001911	17.65	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.0005	0.1	No	17	0.003422	0.002203	64.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.005	0.0015	0.1	No	17	0.003265	0.002306	35.29	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-21	0.005	0.0006	0.1	No	17	0.003526	0.002084	64.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	17	0.004776	0.0009216	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0005	0.1	No	17	0.002518	0.002154	41.18	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	16	0.004719	0.001125	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.0008	0.1	No	17	0.003308	0.002116	58.82	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	17	0.004747	0.001043	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	17	0.004476	0.001479	88.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	16	0.004716	0.001137	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.005	0.00086	0.1	No	16	0.003592	0.001943	62.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.0057	0.00061	0.1	No	17	0.003635	0.002069	58.82	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.087	0.028	0.032	No	8	0.05125	0.02684	0	None	No	0.004	NP (normality)
Cobalt (mg/L)	B-101D	0.003812	0.002188	0.032	No	5	0.003	0.0004848	0	None	No	0.01	Param.
Cobalt (mg/L)	B-102D	0.01509	0.01225	0.032	No	6	0.01367	0.001033	0	None	No	0.01	Param.
Cobalt (mg/L)	**B-104D**	**0.2056**	**0.09109**	**0.032**	**Yes**	**6**	**0.1483**	**0.04167**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	B-106D	0.0009444	0.0005169	0.032	No	5	0.001426	0.0009865	40	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	B-107D	0.001753	0.0003352	0.032	No	5	0.001044	0.000423	0	None	No	0.01	Param.
Cobalt (mg/L)	B-108D	0.004907	0.0001737	0.032	No	5	0.001962	0.001654	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-111D	0.0008129	0.0004143	0.032	No	6	0.001232	0.0009904	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	**B-115D**	**0.3375**	**0.1875**	**0.032**	**Yes**	**4**	**0.2625**	**0.03304**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	B-120D	0.02518	0.000009622	0.032	No	4	0.007425	0.006488	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	**B-56**	**0.05346**	**0.04121**	**0.032**	**Yes**	**6**	**0.04733**	**0.004457**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	B-62	0.0025	0.00031	0.032	No	10	0.002061	0.0009255	80	None	No	0.011	NP (NDs)
Cobalt (mg/L)	**B-63**	**0.05067**	**0.03805**	**0.032**	**Yes**	**7**	**0.04436**	**0.005313**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	B-66	0.01356	0.004416	0.032	No	7	0.008986	0.003847	14.29	None	No	0.01	Param.
Cobalt (mg/L)	B-77	0.002648	0.0007123	0.032	No	8	0.001987	0.0008806	37.5	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-82	0.006341	0.001171	0.032	No	8	0.003756	0.002439	0	None	No	0.01	Param.
Cobalt (mg/L)	B-83	0.01862	0.007148	0.032	No	7	0.01289	0.004831	0	None	No	0.01	Param.
Cobalt (mg/L)	B-88	0.01587	0.001019	0.032	No	7	0.007364	0.008753	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	**B-93**	**0.06739**	**0.05889**	**0.032**	**Yes**	**7**	**0.06314**	**0.003579**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	B-98	0.0048	0.00063	0.032	No	5	0.002586	0.001479	60	None	No	0.031	NP (NDs)
Cobalt (mg/L)	**DGWC-10**	**0.193**	**0.076**	**0.032**	**Yes**	**16**	**0.1441**	**0.05294**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	DGWC-11	0.0025	0.00065	0.032	No	16	0.001452	0.0008668	37.5	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.018	0.0025	0.032	No	18	0.009611	0.01017	11.11	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-13	0.0025	0.0005	0.032	No	16	0.002111	0.0008361	81.25	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	DGWC-15	0.0025	0.0016	0.032	No	17	0.003406	0.005607	5.882	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02641	0.01852	0.032	No	17	0.02246	0.006302	5.882	None	No	0.01	Param.
Cobalt (mg/L)	**DGWC-19**	**0.05329**	**0.04968**	**0.032**	**Yes**	**17**	**0.05148**	**0.002882**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-2	0.02169	0.007709	0.032	No	17	0.01594	0.01179	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	**DGWC-20**	**0.6845**	**0.4878**	**0.032**	**Yes**	**17**	**0.5919**	**0.1635**	**0**	**None**	**sqrt(x)**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-21	0.009637	0.008194	0.032	No	17	0.008529	0.002021	11.76	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009817	0.007638	0.032	No	17	0.008547	0.002138	11.76	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.0025	0.00043	0.032	No	17	0.00168	0.001338	52.94	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-4	0.0021	0.0015	0.032	No	16	0.002	0.0008438	12.5	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.03784	0.01411	0.032	No	17	0.02798	0.02053	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	**DGWC-47**	**0.369**	**0.2475**	**0.032**	**Yes**	**17**	**0.3083**	**0.09696**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-48**	**0.4925**	**0.3864**	**0.032**	**Yes**	**17**	**0.4394**	**0.08465**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-5	0.04	0.0209	0.032	No	16	0.0277	0.01036	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	**DGWC-8**	**0.08147**	**0.0369**	**0.032**	**Yes**	**16**	**0.05919**	**0.03425**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-9**	**0.208**	**0.1515**	**0.032**	**Yes**	**17**	**0.1797**	**0.04503**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	B-100	1.3	0.2178	5	No	6	0.7588	0.3938	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-101D	2.694	0.8511	5	No	4	1.773	0.4058	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-102D	1.803	0.2022	5	No	5	1.002	0.4775	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	**B-104D**	**18.51**	**8.768**	**5**	**Yes**	**5**	**13.64**	**2.907**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	B-106D	1.147	0.2089	5	No	4	0.678	0.2066	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-107D	2.685	0.1062	5	No	4	1.396	0.568	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-108D	2.507	0.02236	5	No	4	1.265	0.5472	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	**B-109D**	**18.75**	**6.021**	**5**	**Yes**	**4**	**12.39**	**2.804**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	B-111D	13.54	2.882	5	No	5	8.21	3.18	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-56	1.434	0.6598	5	No	5	1.047	0.231	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	1.964	1.348	5	No	8	1.656	0.2907	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-63	2.742	0.231	5	No	4	1.487	0.553	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-66	1.07	0	5	No	4	0.6165	0.5008	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-77	2.525	0.5185	5	No	6	1.416	0.7269	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-82	1.101	0.2589	5	No	5	0.6798	0.2512	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-83	1.199	0.1069	5	No	6	0.6532	0.3977	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-88	3.228	0.04599	5	No	5	1.637	0.9496	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-93	2.013	0.4326	5	No	5	1.223	0.4716	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.477	1.082	5	No	16	1.28	0.3039	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.251	0.6895	5	No	16	0.9703	0.4315	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.227	0.4225	5	No	16	0.8885	0.691	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.462	0.9329	5	No	16	1.197	0.4063	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.075	0.6362	5	No	16	0.8554	0.337	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.478	0.5478	5	No	16	1.081	0.8576	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	1.026	0.5813	5	No	16	0.8038	0.342	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	1.005	0.4964	5	No	16	0.7509	0.3912	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.406	0.8744	5	No	16	1.14	0.4084	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.501	0.8706	5	No	16	1.186	0.4842	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.087	0.5598	5	No	16	0.8233	0.405	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.319	0.6845	5	No	16	1.002	0.4877	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.442	0.7588	5	No	16	1.1	0.5247	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.684	1.161	5	No	16	1.422	0.4014	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.144	0.6427	5	No	16	0.8934	0.3853	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	2.824	1.669	5	No	16	2.247	0.8871	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.406	1.484	5	No	16	1.945	0.7088	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.784	1.001	5	No	16	1.392	0.6017	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.816	0.4664	5	No	16	0.6412	0.2687	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.405	0.9357	5	No	16	1.171	0.3608	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-100	0.1	0.072	4	No	6	0.09533	0.01143	83.33	None	No	0.0155	NP (NDs)
Fluoride, total (mg/L)	B-101D	0.1	0.051	4	No	5	0.071	0.02603	20	None	No	0.031	NP (normality)

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	B-102D	0.1133	0.06032	4	No	6	0.08683	0.0193	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-104D	0.4824	0.2676	4	No	6	0.375	0.07817	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-106D	0.07945	0.04005	4	No	5	0.0678	0.0215	20	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	B-107D	0.1	0.053	4	No	5	0.0906	0.02102	80	Kaplan-Meier	No	0.031	NP (NDs)
Fluoride, total (mg/L)	B-108D	0.1	0.061	4	No	5	0.0922	0.01744	80	Kaplan-Meier	No	0.031	NP (NDs)
Fluoride, total (mg/L)	B-109D	0.1807	0.1073	4	No	5	0.144	0.02191	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-111D	0.5548	0.2752	4	No	6	0.415	0.1017	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-115D	1.484	0.4086	4	No	4	0.8025	0.2229	0	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	B-120D	0.1	0.057	4	No	4	0.08925	0.0215	75	None	No	0.0625	NP (NDs)
Fluoride, total (mg/L)	B-56	0.3162	0.1032	4	No	6	0.2097	0.07752	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-62	0.43	0.093	4	No	8	0.1678	0.1145	0	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	B-63	0.4452	0.06354	4	No	5	0.214	0.1352	0	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	B-66	0.5195	0.01253	4	No	5	0.266	0.1513	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-77	0.1	0.078	4	No	7	0.09343	0.009981	57.14	None	No	0.008	NP (NDs)
Fluoride, total (mg/L)	B-82	0.1527	0.03333	4	No	6	0.1052	0.05017	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	B-83	0.1049	0.04706	4	No	7	0.08543	0.02668	28.57	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	B-88	0.1	0.054	4	No	6	0.09233	0.01878	83.33	Kaplan-Meier	No	0.0155	NP (NDs)
Fluoride, total (mg/L)	B-93	0.4121	0.2912	4	No	6	0.3517	0.04401	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-10	1.825	1.321	4	No	18	1.573	0.4167	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-11	0.1	0.052	4	No	17	0.08059	0.02524	58.82	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-12	0.2	0.078	4	No	18	0.1506	0.1381	33.33	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-13	0.1896	0.08406	4	No	17	0.1478	0.1056	5.882	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-14	0.1	0.059	4	No	18	0.08517	0.02588	66.67	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-15	0.11	0.079	4	No	18	0.1028	0.04206	61.11	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-17	0.31	0.084	4	No	18	0.1924	0.1496	16.67	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-19	0.449	0.1721	4	No	18	0.3489	0.3011	5.556	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-2	0.28	0.053	4	No	18	0.1368	0.1501	38.89	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-20	0.9663	0.4549	4	No	18	0.7106	0.4226	5.556	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-21	0.14	0.079	4	No	18	0.1055	0.06279	61.11	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-22	0.12	0.09	4	No	18	0.1147	0.06261	50	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-23	0.2073	0.0939	4	No	18	0.1763	0.1487	11.11	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-4	0.17	0.082	4	No	18	0.1302	0.1679	66.67	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-42	0.1	0.06	4	No	18	0.09333	0.02058	88.89	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-47	1.081	0.52	4	No	18	0.8006	0.4638	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-48	1.076	0.5784	4	No	18	0.8572	0.4371	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-5	0.6408	0.2247	4	No	17	0.5271	0.4418	5.882	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-8	0.3171	0.09257	4	No	17	0.2635	0.2284	17.65	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-9	1.352	0.965	4	No	18	1.158	0.3195	0	None	No	0.01	Param.
Lead (mg/L)	B-100	0.001	0.000088	0.015	No	6	0.0005797	0.0004622	50	None	No	0.0155	NP (normality)
Lead (mg/L)	B-101D	0.001	0.000065	0.015	No	5	0.000813	0.0004181	80	None	No	0.031	NP (NDs)
Lead (mg/L)	B-102D	0.001	0.000037	0.015	No	6	0.0005243	0.0005211	50	None	No	0.0155	NP (normality)
Lead (mg/L)	B-104D	0.001	0.000051	0.015	No	6	0.0008418	0.0003874	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	B-107D	0.001	0.000044	0.015	No	5	0.0008088	0.0004275	80	None	No	0.031	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000051	0.015	No	6	0.0006848	0.0004883	66.67	None	No	0.0155	NP (NDs)
Lead (mg/L)	B-115D	0.001	0.00032	0.015	No	4	0.00083	0.00034	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	B-120D	0.001	0.00019	0.015	No	4	0.0007975	0.000405	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	B-56	0.001	0.000091	0.015	No	6	0.0005685	0.0004749	50	None	No	0.0155	NP (normality)
Lead (mg/L)	B-63	0.001	0.000047	0.015	No	6	0.0006867	0.0004855	66.67	None	No	0.0155	NP (NDs)
Lead (mg/L)	B-77	0.0016	0.00021	0.015	No	8	0.0008025	0.0004838	50	None	No	0.004	NP (selected)
Lead (mg/L)	B-82	0.001	0.000059	0.015	No	7	0.0006184	0.0004768	57.14	None	No	0.008	NP (NDs)
Lead (mg/L)	B-83	0.001	0.000065	0.015	No	7	0.0006107	0.0004624	42.86	None	No	0.008	NP (normality)
Lead (mg/L)	B-88	0.006095	0.0002108	0.015	No	6	0.002893	0.004503	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	B-93	0.001	0.00012	0.015	No	6	0.0007067	0.0004544	66.67	Kaplan-Meier	No	0.0155	NP (NDs)
Lead (mg/L)	DGWC-10	0.001	0.00011	0.015	No	16	0.0006739	0.0004362	62.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.0001	0.015	No	16	0.0007187	0.0004314	68.75	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	DGWC-12	0.001	0.00011	0.015	No	18	0.0009006	0.0002894	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.015	No	16	0.0008936	0.0002913	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.015	No	17	0.0008366	0.0003639	82.35	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.0012	0.0001	0.015	No	17	0.0007495	0.0004302	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.0001	0.015	No	17	0.0006349	0.0004504	58.82	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00016	0.015	No	17	0.0007405	0.000417	70.59	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.00009	0.015	No	17	0.0005726	0.0004676	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-20	0.001	0.00044	0.015	No	17	0.0007628	0.0003566	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.00015	0.015	No	17	0.0006627	0.0004214	58.82	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.015	No	17	0.0009451	0.0002265	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.00012	0.015	No	16	0.0007793	0.0003958	75	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0004369	0.0001603	0.015	No	17	0.0008365	0.001151	29.41	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.001	0.0006	0.015	No	17	0.001071	0.001035	35.29	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.002	0.00095	0.015	No	17	0.001588	0.001115	11.76	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.001	0.000063	0.015	No	16	0.0006486	0.0006457	43.75	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.001	0.00011	0.015	No	16	0.0006739	0.0004052	56.25	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-9	0.001	0.00028	0.015	No	17	0.0008588	0.0003153	82.35	None	No	0.01	NP (NDs)
Lithium (mg/L)	B-100	0.002815	0.001518	0.04	No	6	0.002167	0.0004719	0	None	No	0.01	Param.
Lithium (mg/L)	B-101D	0.01506	0.008456	0.04	No	5	0.01176	0.001972	0	None	No	0.01	Param.
Lithium (mg/L)	B-102D	0.01477	0.01156	0.04	No	6	0.01317	0.001169	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.0403	0.0357	0.04	No	6	0.038	0.001673	0	None	No	0.01	Param.
Lithium (mg/L)	B-106D	0.005805	0.004811	0.04	No	5	0.00534	0.000313	0	None	x^3	0.01	Param.
Lithium (mg/L)	B-107D	0.01704	0.01336	0.04	No	5	0.0152	0.001095	0	None	No	0.01	Param.
Lithium (mg/L)	B-108D	0.01668	0.01332	0.04	No	5	0.015	0.001	0	None	No	0.01	Param.
Lithium (mg/L)	B-109D	0.01605	0.01195	0.04	No	5	0.014	0.001225	0	None	No	0.01	Param.
Lithium (mg/L)	B-111D	0.02962	0.01871	0.04	No	6	0.02417	0.003971	0	None	No	0.01	Param.
Lithium (mg/L)	**B-115D**	**0.09241**	**0.07609**	**0.04**	**Yes**	**4**	**0.08425**	**0.003594**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**B-120D**	**0.09244**	**0.06756**	**0.04**	**Yes**	**4**	**0.08**	**0.005477**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	B-56	0.006056	0.004944	0.04	No	6	0.0055	0.000405	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.015	0.0078	0.04	No	9	0.009278	0.002213	11.11	None	No	0.002	NP (normality)
Lithium (mg/L)	B-63	0.015	0.0062	0.04	No	7	0.007714	0.003231	14.29	None	No	0.008	NP (normality)
Lithium (mg/L)	B-66	0.015	0.00073	0.04	No	6	0.01262	0.005826	83.33	None	No	0.0155	NP (NDs)
Lithium (mg/L)	B-77	0.003715	0.001092	0.04	No	8	0.005531	0.005977	25	Kaplan-Meier	ln(x)	0.01	Param.
Lithium (mg/L)	B-82	0.0039	0.00078	0.04	No	7	0.001814	0.001352	0	None	No	0.008	NP (normality)
Lithium (mg/L)	B-83	0.003738	0.001605	0.04	No	7	0.002671	0.0008976	0	None	No	0.01	Param.
Lithium (mg/L)	B-88	0.0202	0.0009269	0.04	No	6	0.007833	0.0106	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	B-93	0.013	0.011	0.04	No	6	0.01183	0.0009832	0	None	No	0.0155	NP (normality)
Lithium (mg/L)	DGWC-10	0.006599	0.002973	0.04	No	16	0.005375	0.003986	12.5	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.04	No	16	0.003069	0.003198	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.0011	0.04	No	18	0.01034	0.006786	66.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.004	0.0029	0.04	No	16	0.00475	0.004016	12.5	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0034	0.04	No	17	0.004671	0.002882	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0064	0.0057	0.04	No	16	0.006144	0.0008469	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.0011	0.04	No	17	0.01009	0.006856	64.71	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0034	0.0031	0.04	No	17	0.003894	0.00287	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.0807	0.023	0.04	No	17	0.04594	0.0297	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.04	No	17	0.006924	0.005464	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-21	0.0065	0.0057	0.04	No	17	0.006535	0.002217	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0046	0.0036	0.04	No	17	0.004653	0.002705	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.014	0.0039	0.04	No	17	0.01075	0.01733	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-4	0.0037	0.0025	0.04	No	16	0.003781	0.003031	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01233	0.009624	0.04	No	17	0.01098	0.002158	5.882	None	No	0.01	Param.
Lithium (mg/L)	**DGWC-47**	**0.07239**	**0.05682**	**0.04**	**Yes**	**17**	**0.06461**	**0.01243**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**DGWC-48**	**0.1245**	**0.1056**	**0.04**	**Yes**	**17**	**0.1151**	**0.01511**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	DGWC-5	0.008091	0.004567	0.04	No	16	0.006481	0.002885	6.25	None	sqrt(x)	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	DGWC-8	0.00675	0.004185	0.04	No	16	0.005725	0.002765	6.25	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-9	0.02895	0.02357	0.04	No	17	0.02626	0.004292	5.882	None	No	0.01	Param.
Mercury (mg/L)	B-100	0.0002	0.00011	0.002	No	5	0.000182	0.00004025	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-101D	0.0002	0.00014	0.002	No	5	0.000188	0.00002683	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-104D	0.0002	0.000079	0.002	No	6	0.0001798	0.0000494	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-107D	0.0002	0.00016	0.002	No	5	0.000192	0.00001789	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-108D	0.0002	0.00014	0.002	No	5	0.000188	0.00002683	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.000094	0.002	No	6	0.0001823	0.00004327	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-56	0.0002	0.00016	0.002	No	6	0.0001933	0.00001633	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No	7	0.0001871	0.00003402	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.0001	0.002	No	6	0.0001683	0.00004916	66.67	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-93	0.0002543	0.00009374	0.002	No	6	0.0001847	0.00006049	16.67	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0002	0.000081	0.002	No	16	0.0001701	0.00005368	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.0002	0.00008	0.002	No	16	0.0001744	0.00005537	81.25	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00008	0.002	No	18	0.0001592	0.00006243	66.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	16	0.000185	0.00004115	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	17	0.0001759	0.00005397	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	17	0.0001918	0.00003395	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.000082	0.002	No	17	0.0001474	0.0000627	52.94	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-19	0.0002	0.00009	0.002	No	17	0.0001753	0.0000558	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	17	0.0002043	0.000122	76.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	17	0.0001794	0.00004589	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00008	0.002	No	17	0.0001629	0.0000608	70.59	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.00011	0.002	No	17	0.0001715	0.00005465	76.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0001899	0.0001266	0.002	No	17	0.0001871	0.00005382	35.29	Kaplan-Meier	x^(1/3)	0.01	Param.
Mercury (mg/L)	DGWC-4	0.00022	0.00013	0.002	No	16	0.0002064	0.0001111	68.75	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	17	0.0001906	0.00003881	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	17	0.0001918	0.00003395	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002509	0.0001313	0.002	No	16	0.0001996	0.0001117	12.5	None	x^(1/3)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.000079	0.002	No	16	0.0001557	0.00006126	62.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.0002	0.00013	0.002	No	17	0.000186	0.00008263	41.18	None	No	0.01	NP (normality)
Molybdenum (mg/L)	B-101D	0.01	0.0022	0.1	No	5	0.00844	0.003488	80	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	B-102D	0.01	0.0015	0.1	No	6	0.008583	0.00347	83.33	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	B-104D	0.01	0.00083	0.1	No	6	0.007005	0.004641	66.67	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	B-109D	0.002187	0.0007334	0.1	No	5	0.00146	0.0004336	0	None	No	0.01	Param.
Molybdenum (mg/L)	B-111D	0.013	0.0052	0.1	No	6	0.007117	0.002969	0	None	No	0.0155	NP (normality)
Molybdenum (mg/L)	B-120D	0.01	0.00089	0.1	No	4	0.007722	0.004555	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	B-66	0.01	0.0015	0.1	No	6	0.007217	0.004313	66.67	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.1	No	6	0.007067	0.004544	66.67	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	DGWC-13	0.02242	0.01192	0.1	No	16	0.01833	0.009341	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.0018	0.1	No	17	0.004747	0.004019	35.29	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01082	0.007024	0.1	No	17	0.008924	0.003032	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.006923	0.004615	0.1	No	16	0.005769	0.001774	6.25	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.0019	0.05	No	6	0.004483	0.001266	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-101D	0.005	0.0031	0.05	No	5	0.00462	0.0008497	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-104D	0.005	0.0016	0.05	No	6	0.004117	0.001448	66.67	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-108D	0.005	0.0016	0.05	No	5	0.00432	0.001521	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-111D	0.005	0.0022	0.05	No	6	0.004533	0.001143	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-115D	0.007751	0.0006488	0.05	No	4	0.0042	0.001564	0	None	No	0.01	Param.
Selenium (mg/L)	B-120D	0.00459	0.0002602	0.05	No	4	0.002425	0.0009535	0	None	No	0.01	Param.
Selenium (mg/L)	B-56	0.02364	0.005489	0.05	No	6	0.01343	0.00791	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No	8	0.004587	0.001167	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0016	0.05	No	7	0.003671	0.001664	57.14	None	No	0.008	NP (NDs)
Selenium (mg/L)	B-83	0.02829	0.01234	0.05	No	7	0.02031	0.006715	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.002986	0.001427	0.05	No	6	0.0029	0.001235	16.67	Kaplan-Meier	No	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	B-93	0.02992	0.003804	0.05	No	6	0.01513	0.01105	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-10	0.04891	0.02113	0.05	No	16	0.03502	0.02135	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0019	0.05	No	18	0.00405	0.002157	61.11	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004355	0.002125	0.05	No	16	0.004394	0.002313	18.75	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-14	0.01	0.0017	0.05	No	17	0.004118	0.002217	64.71	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	17	0.005106	0.00148	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.008819	0.006411	0.05	No	17	0.007771	0.002266	11.76	None	ln(x)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.008624	0.005564	0.05	No	17	0.007094	0.002441	11.76	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0051	0.0037	0.05	No	17	0.004871	0.001733	41.18	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06544	0.03599	0.05	No	17	0.05072	0.0235	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	17	0.004806	0.0008004	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	16	0.004775	0.0009	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01198	0.004695	0.05	No	17	0.008335	0.00581	11.76	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.006509	0.002678	0.05	No	17	0.005541	0.003219	17.65	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.03982	0.009533	0.05	No	16	0.03004	0.03995	6.25	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.0069	0.0028	0.05	No	16	0.004637	0.002001	56.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-9	0.121	0.04897	0.05	No	17	0.08498	0.05747	0	None	No	0.01	Param.
Thallium (mg/L)	B-56	0.0003125	0.0001709	0.002	No	6	0.0002417	0.00005154	0	None	No	0.01	Param.
Thallium (mg/L)	B-82	0.005	0.000099	0.002	No	7	0.003601	0.002389	71.43	None	No	0.008	NP (NDs)
Thallium (mg/L)	B-83	0.005	0.000072	0.002	No	7	0.004296	0.001863	85.71	None	No	0.008	NP (NDs)
Thallium (mg/L)	B-88	0.005	0.0002	0.002	No	6	0.0042	0.00196	83.33	None	No	0.0155	NP (NDs)
Thallium (mg/L)	DGWC-10	0.001	0.00034	0.002	No	16	0.001012	0.001565	18.75	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.005	0.00009	0.002	No	18	0.003093	0.00246	61.11	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.005	0.00017	0.002	No	17	0.001881	0.002375	35.29	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.00057	0.00049	0.002	No	17	0.0005465	0.0001297	5.882	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.005	0.00055	0.002	No	17	0.00189	0.001838	29.41	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-22	0.005	0.00007	0.002	No	17	0.003549	0.002317	70.59	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.005	0.000073	0.002	No	16	0.004692	0.001232	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.005	0.00009	0.002	No	17	0.003843	0.002149	76.47	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00032	0.0002	0.002	No	17	0.0005741	0.001156	11.76	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.005	0.00008	0.002	No	17	0.003553	0.00231	70.59	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.005	0.0002	0.002	No	16	0.004084	0.00197	81.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	16	0.001164	0.001913	25	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.005	0.00044	0.002	No	17	0.002385	0.002258	41.18	None	No	0.01	NP (normality)

Appendix IV Trend Tests - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:13 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	**DGWA-70A (bg)**	**-0.0005528**	**-75**	**-63**	**Yes**	**17**	**47.06**	**n/a**	**n/a**	**0.01**	**NP**
Beryllium (mg/L)	**DGWC-48**	**-0.0003618**	**-75**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**DGWA-53 (bg)**	**-0.004341**	**-86**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**DGWC-10**	**-0.02391**	**-81**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**DGWC-47**	**-0.04254**	**-94**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**DGWC-48**	**-0.04236**	**-118**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**DGWC-8**	**-0.01359**	**-84**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**DGWC-9**	**0.02203**	**94**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Combined Radium 226 + 228 (pCi/L)	**DGWA-53 (bg)**	**-0.5606**	**-74**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Lithium (mg/L)	**DGWC-47**	**-0.005519**	**-84**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Lithium (mg/L)	**DGWC-48**	**-0.006296**	**-90**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix IV Trend Tests - All Results

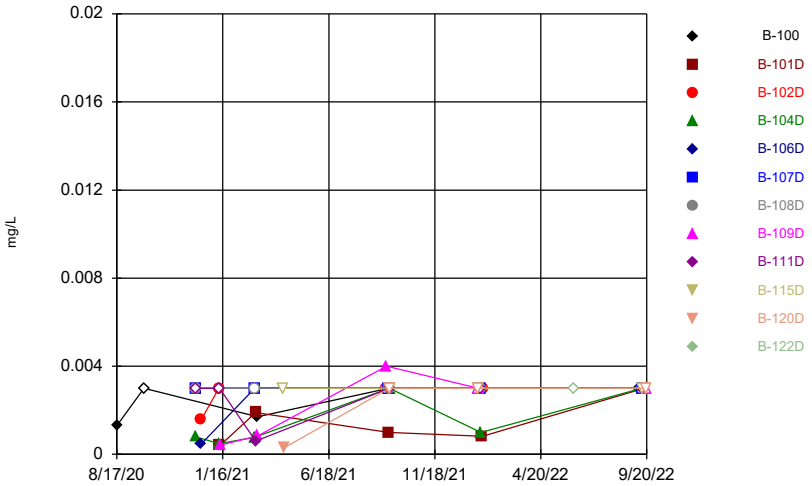
Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:13 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	DGWA-53 (bg)	0	2	63	No	17	58.82	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-70A (bg)	0	-31	-63	No	17	82.35	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-71 (bg)	0	24	58	No	16	81.25	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWC-9	-0.0002264	-4	-63	No	17	5.882	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-53 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	**DGWA-70A (bg)**	**-0.0005528**	**-75**	**-63**	**Yes**	**17**	**47.06**	**n/a**	**n/a**	**0.01**	**NP**
Beryllium (mg/L)	DGWA-71 (bg)	-0.00001726	-46	-63	No	17	29.41	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-10	0.0005202	26	58	No	16	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-47	-0.0008716	-63	-63	No	17	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	**DGWC-48**	**-0.0003618**	**-75**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Beryllium (mg/L)	DGWC-5	0.0004942	44	58	No	16	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-9	0.00003719	9	63	No	17	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-92	-0.00171	-3	-12	No	5	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-93	0.001505	13	18	No	7	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	**DGWA-53 (bg)**	**-0.004341**	**-86**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	DGWA-70A (bg)	0	11	63	No	17	52.94	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-71 (bg)	0	23	58	No	16	68.75	n/a	n/a	0.01	NP
Cobalt (mg/L)	**DGWC-10**	**-0.02391**	**-81**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	DGWC-19	-0.0001283	-13	-63	No	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-20	0.05164	45	63	No	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	**DGWC-47**	**-0.04254**	**-94**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**DGWC-48**	**-0.04236**	**-118**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**DGWC-8**	**-0.01359**	**-84**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**DGWC-9**	**0.02203**	**94**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	B-104D	-0.02997	-5	-14	No	6	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-56	0.004575	10	14	No	6	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-63	-0.001791	-4	-18	No	7	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-93	-0.002781	-12	-18	No	7	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	**DGWA-53 (bg)**	**-0.5606**	**-74**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Combined Radium 226 + 228 (pCi/L)	DGWA-70A (bg)	0.02757	9	68	No	18	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-71 (bg)	0.0095	5	63	No	17	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	B-104D	-3.972	-6	-12	No	5	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-53 (bg)	-0.0001177	-22	-63	No	17	5.882	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-70A (bg)	0	21	63	No	17	82.35	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-71 (bg)	-0.0001133	-55	-58	No	16	18.75	n/a	n/a	0.01	NP
Lithium (mg/L)	**DGWC-47**	**-0.005519**	**-84**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Lithium (mg/L)	**DGWC-48**	**-0.006296**	**-90**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**

FIGURE A.

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Time Series



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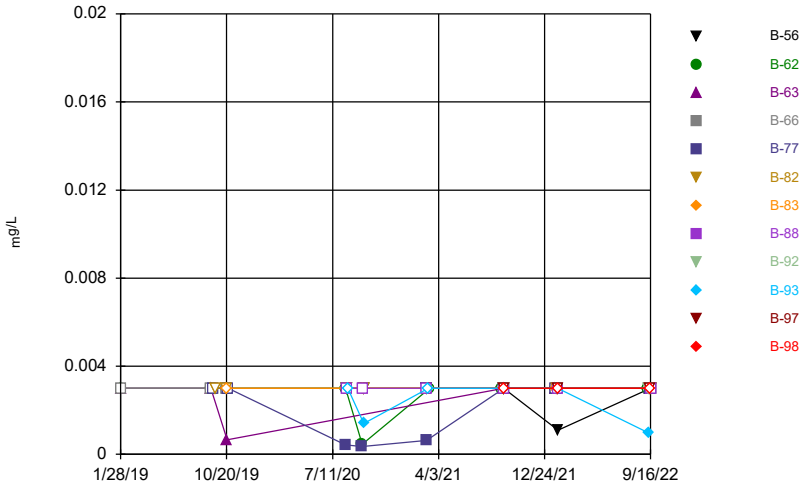

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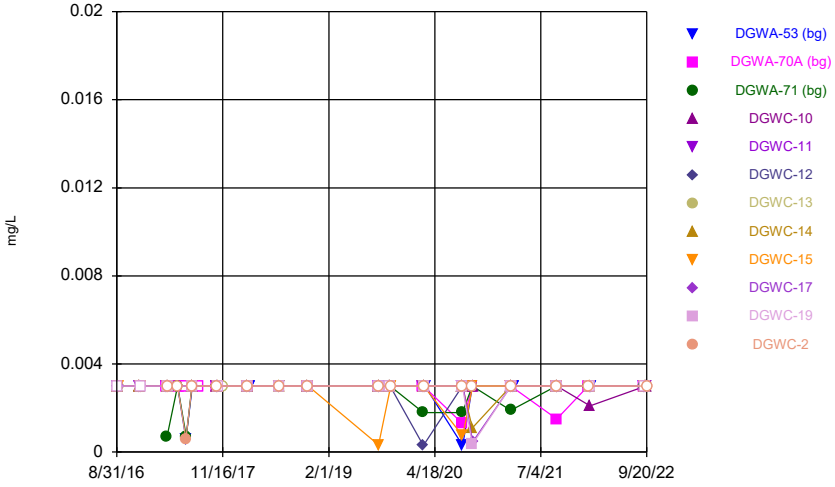

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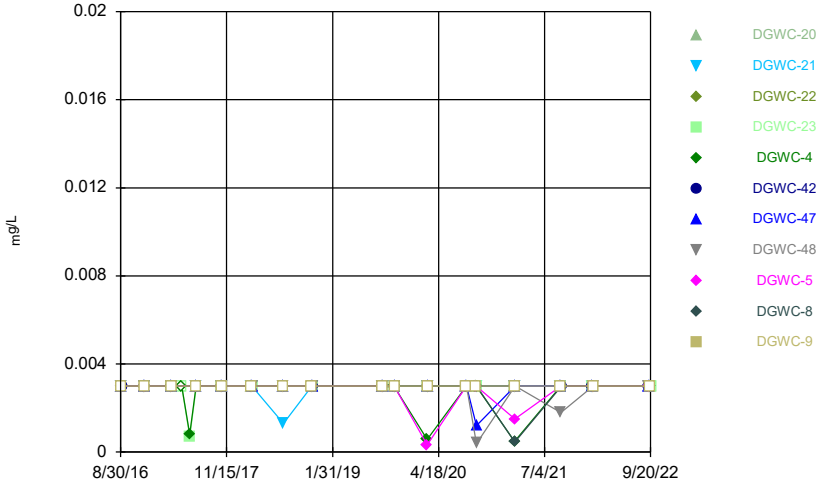

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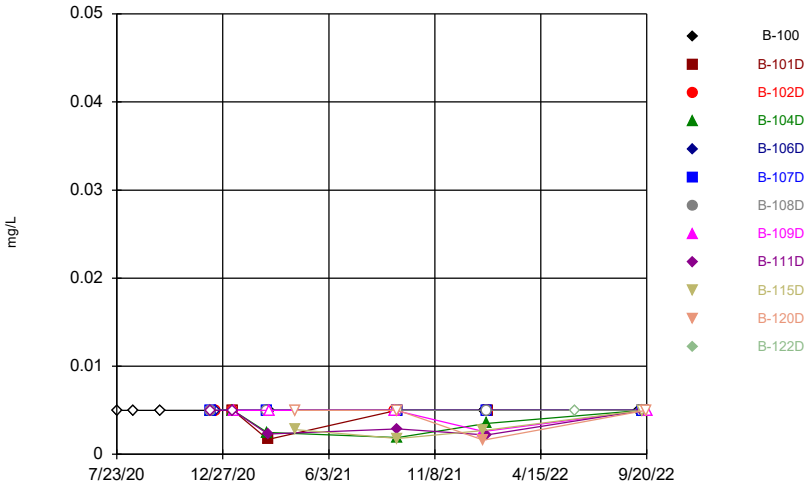

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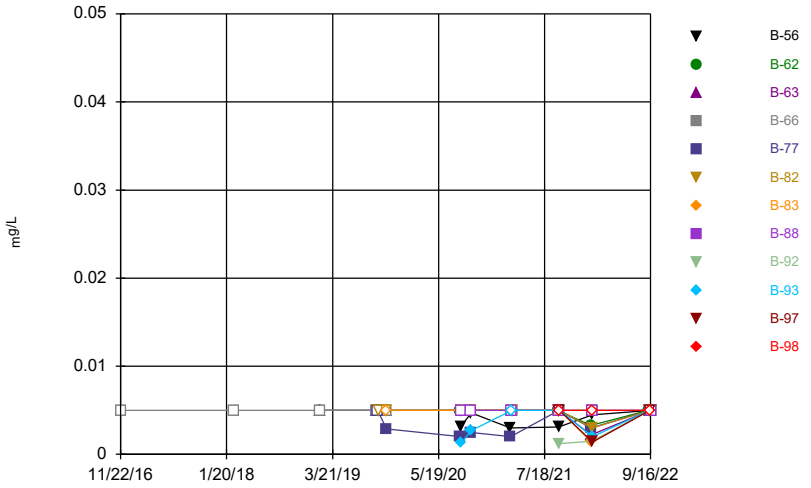

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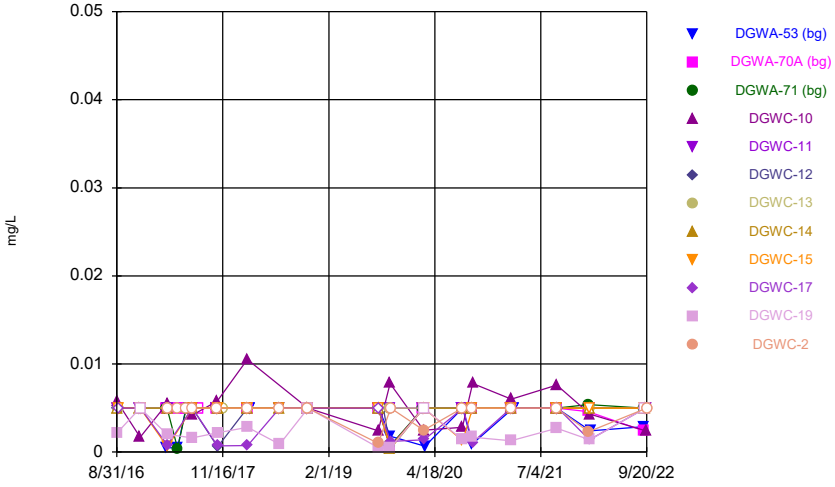

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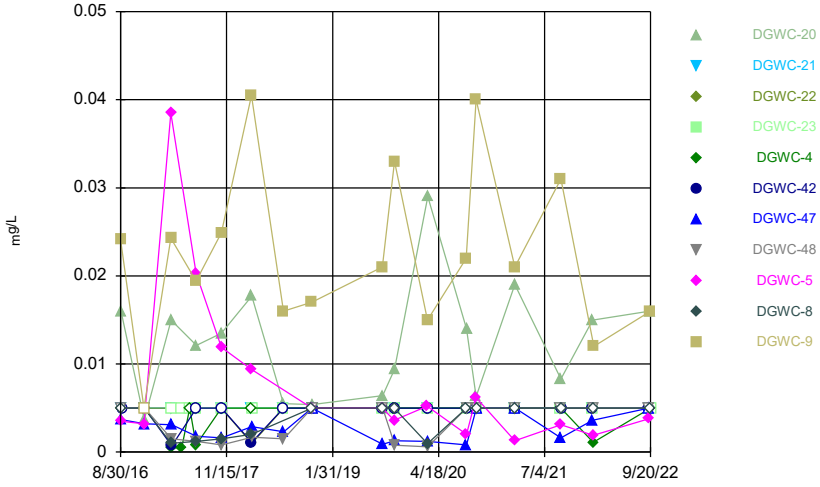

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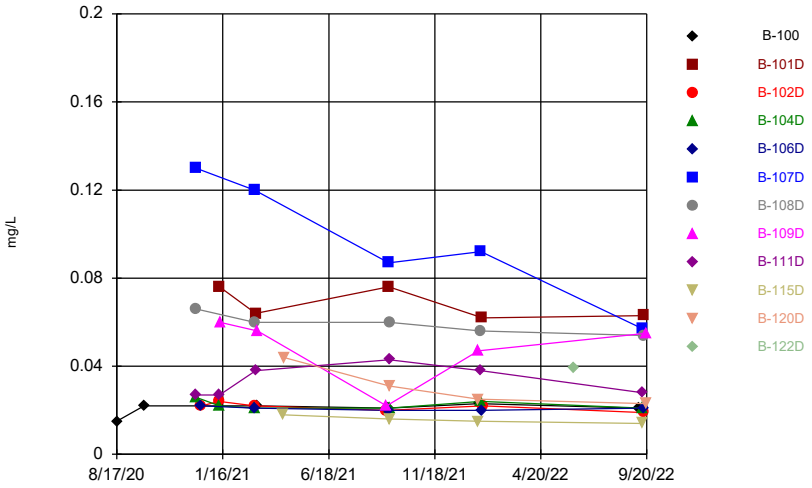

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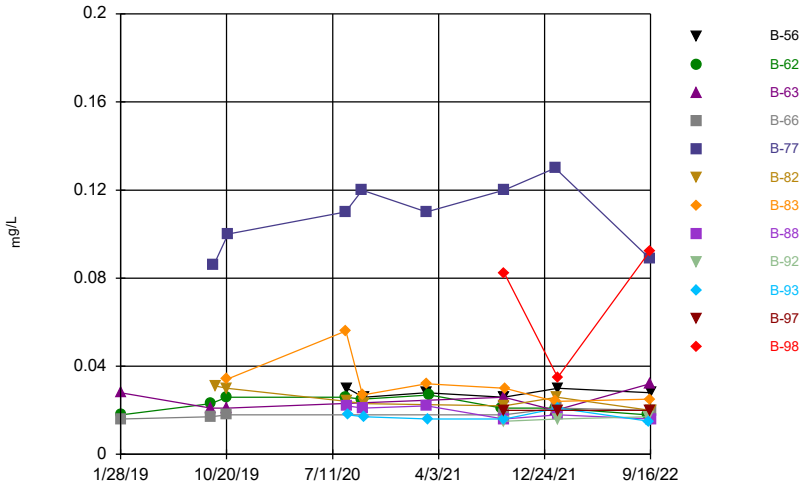

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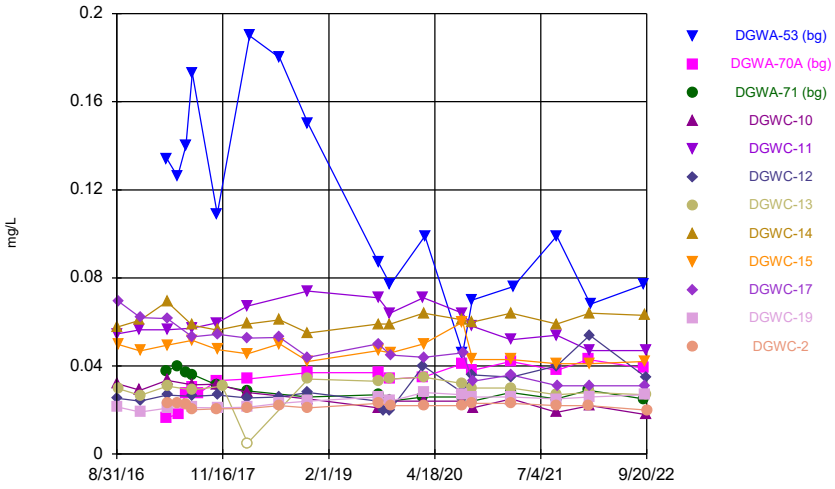

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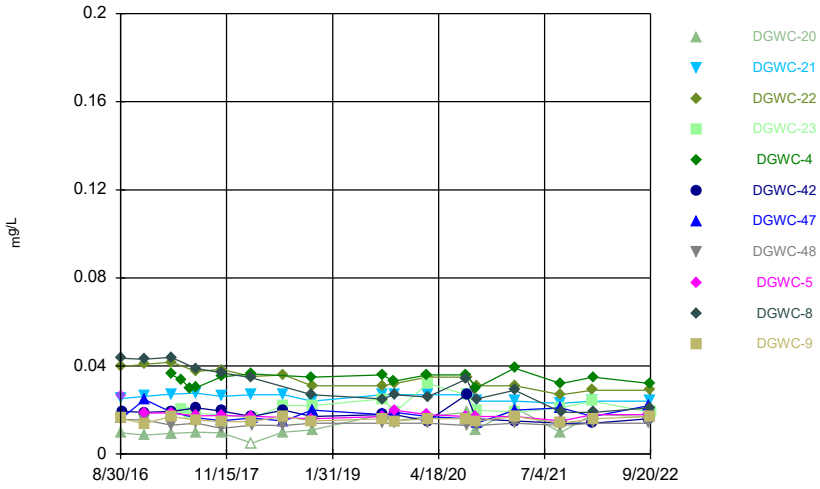

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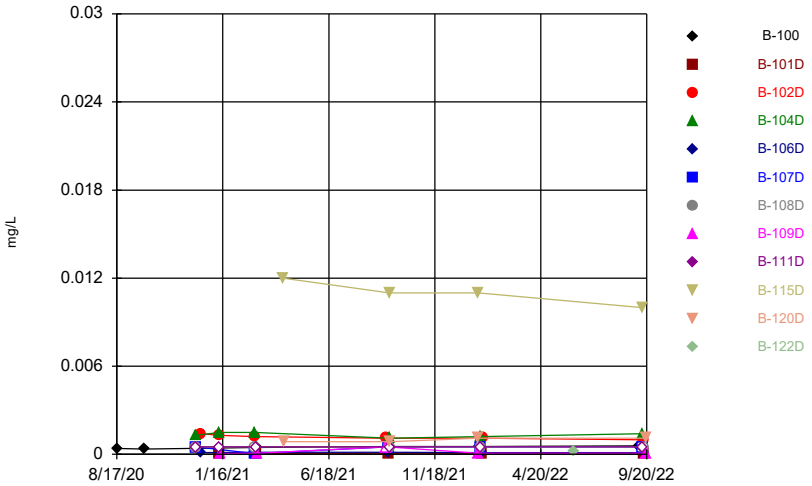

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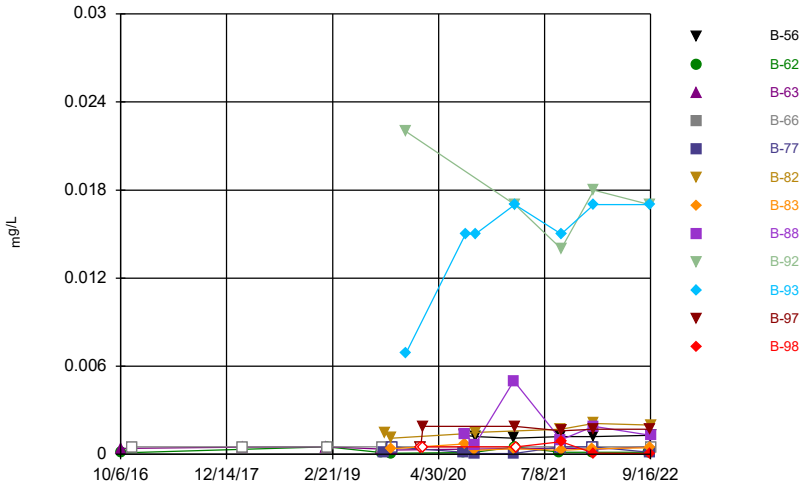

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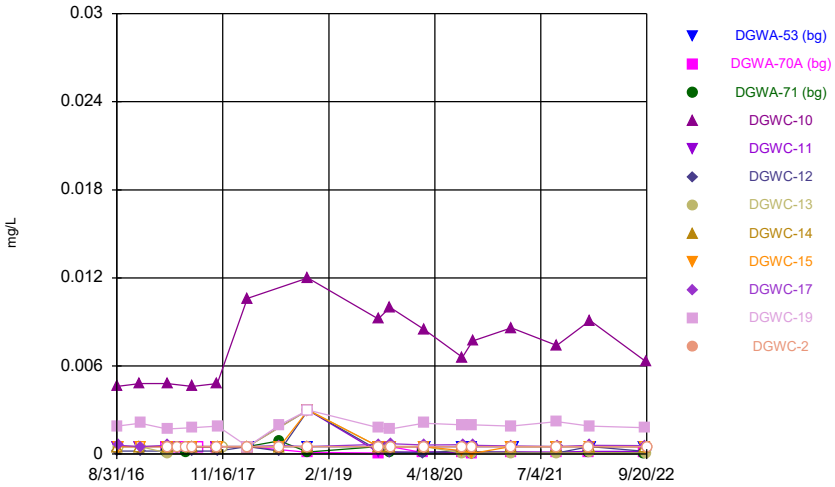

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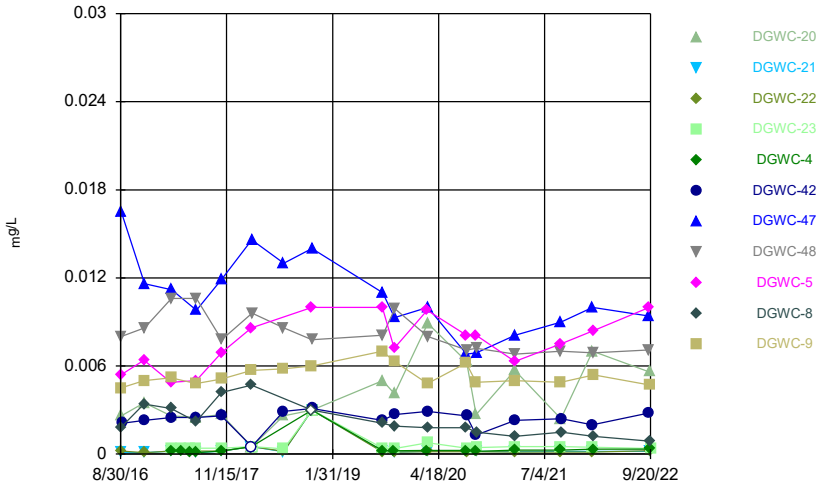

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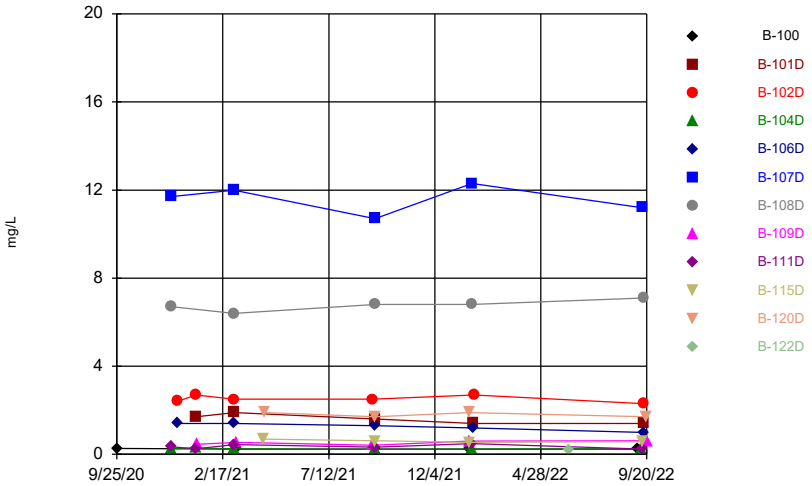
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

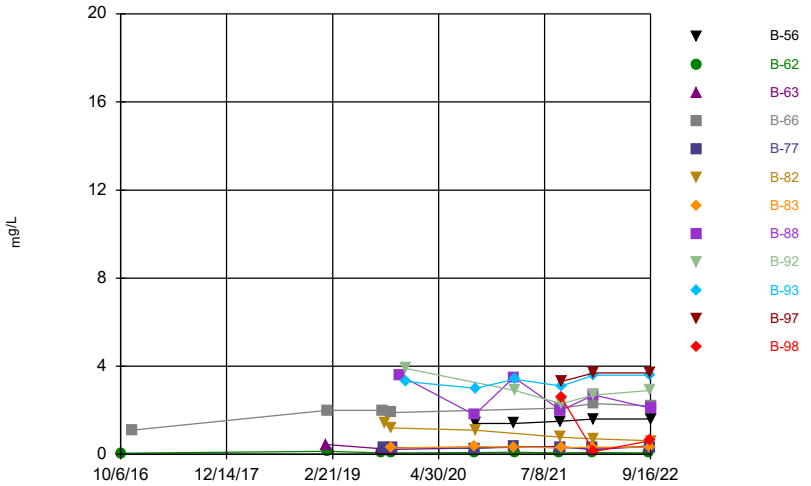
Time Series



Constituent: Boron Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Time Series



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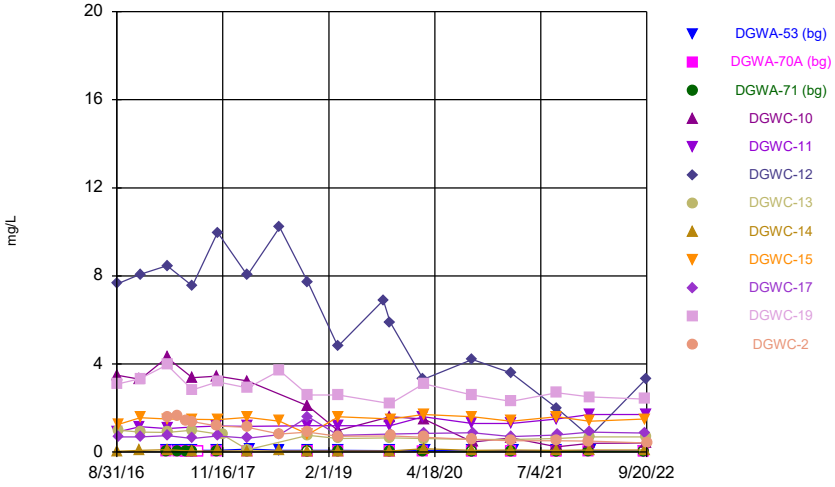

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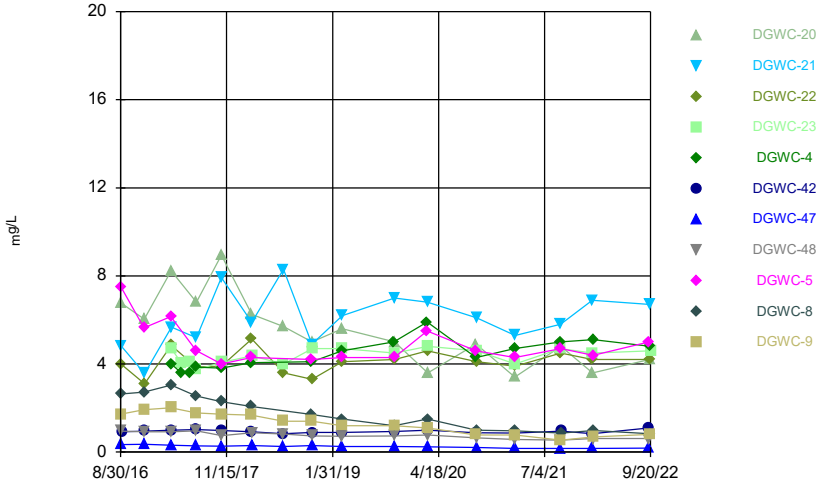
Sanitas™ v.9.6.35 . UG

Time Series



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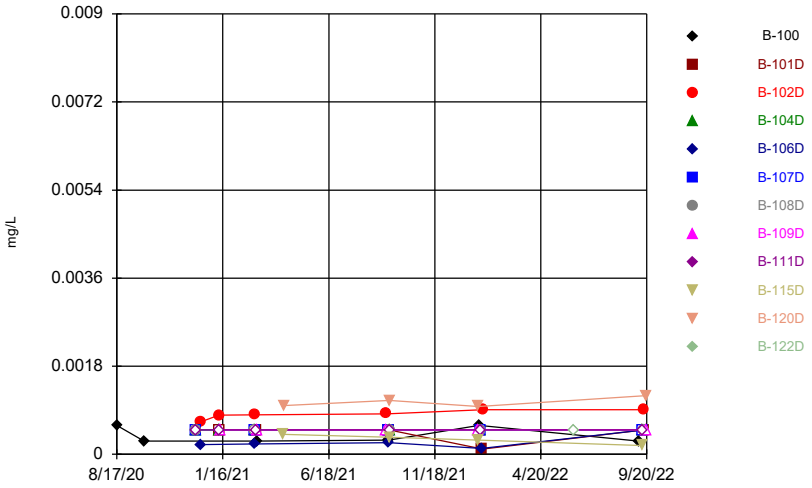

Constituent: Cadmium Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
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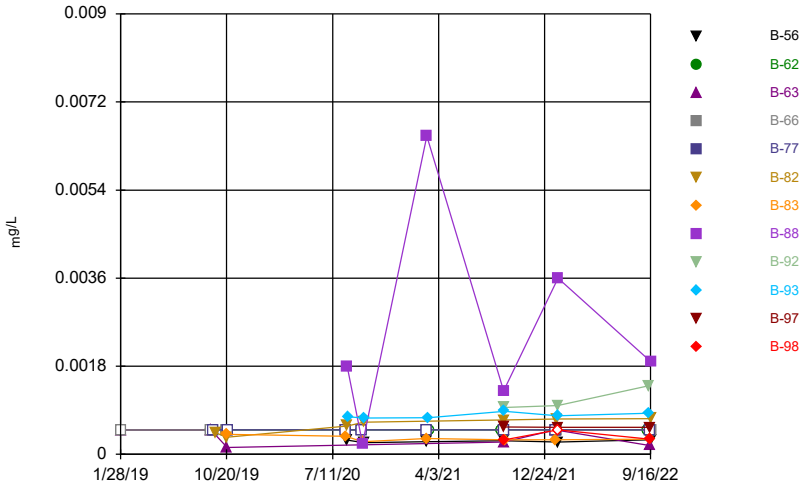
Time Series



Constituent: Cadmium Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
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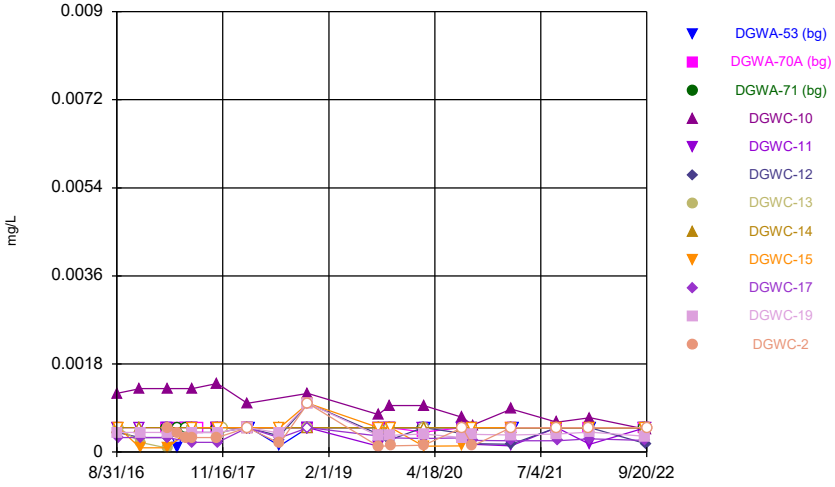
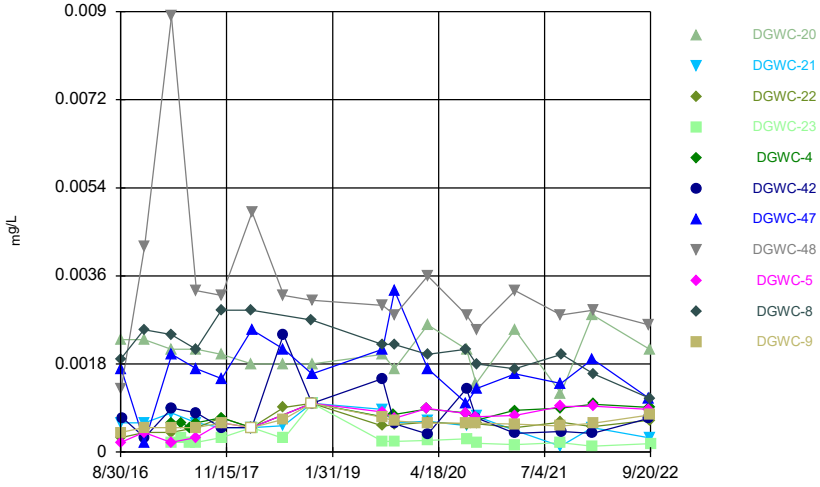
Time Series



Constituent: Cadmium Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

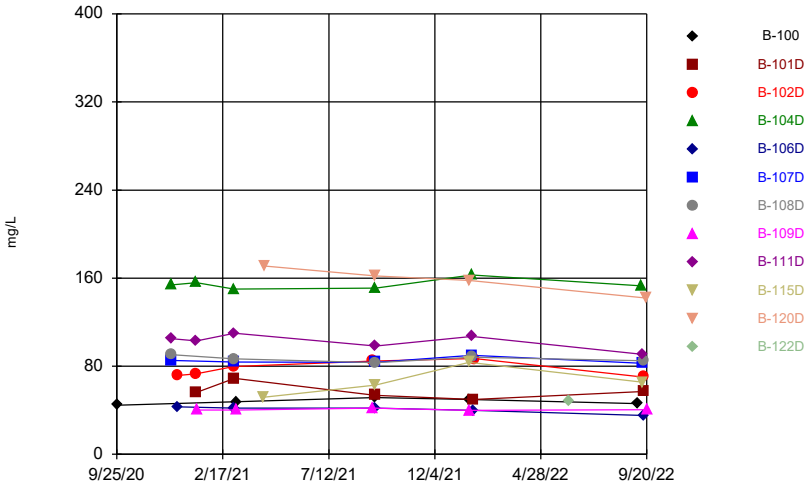
Time Series



Constituent: Cadmium Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

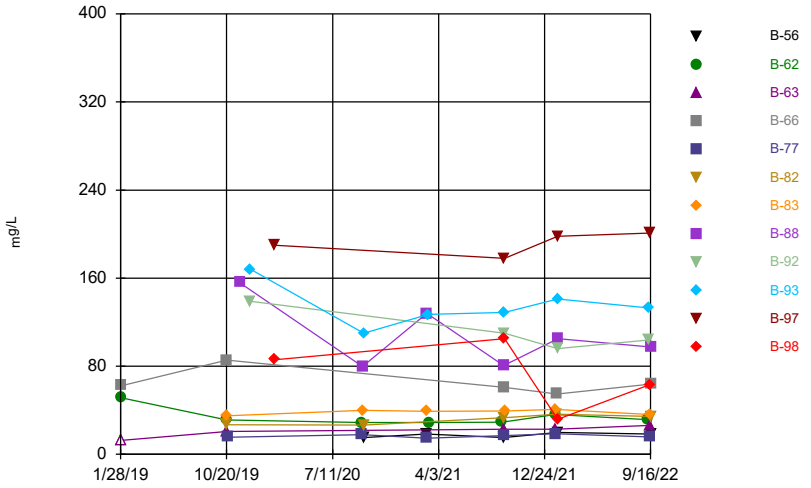
Time Series



Constituent: Calcium Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

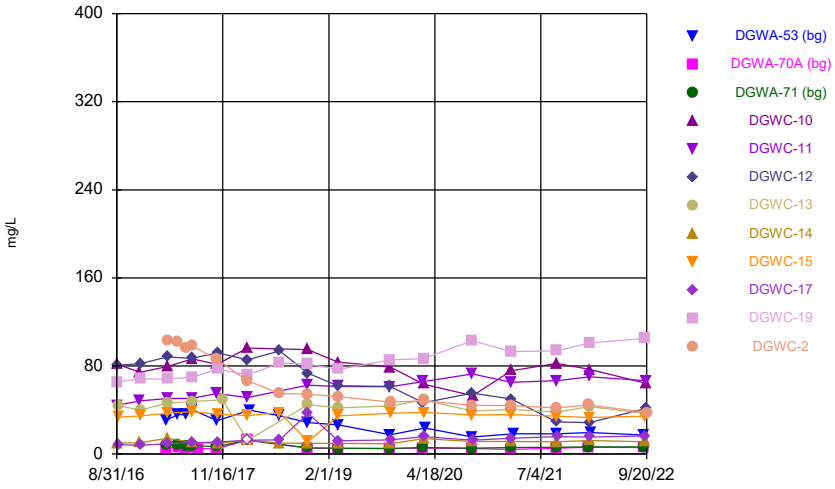
Time Series



Constituent: Calcium Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

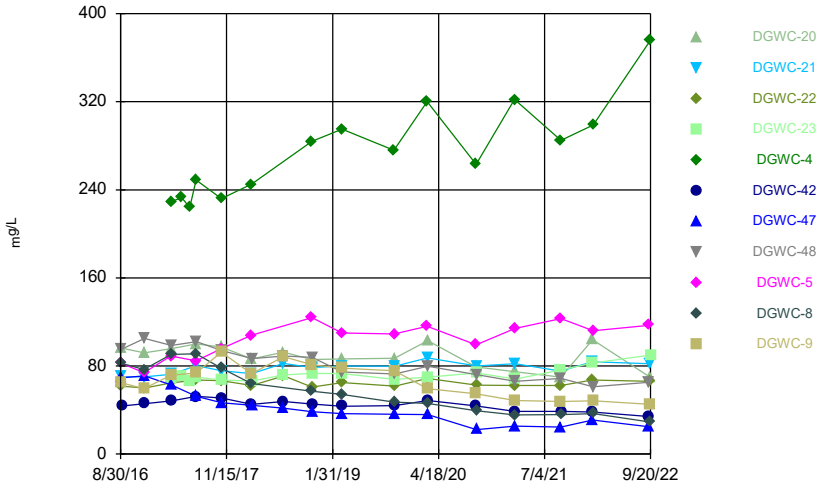
Time Series



Constituent: Calcium Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Time Series



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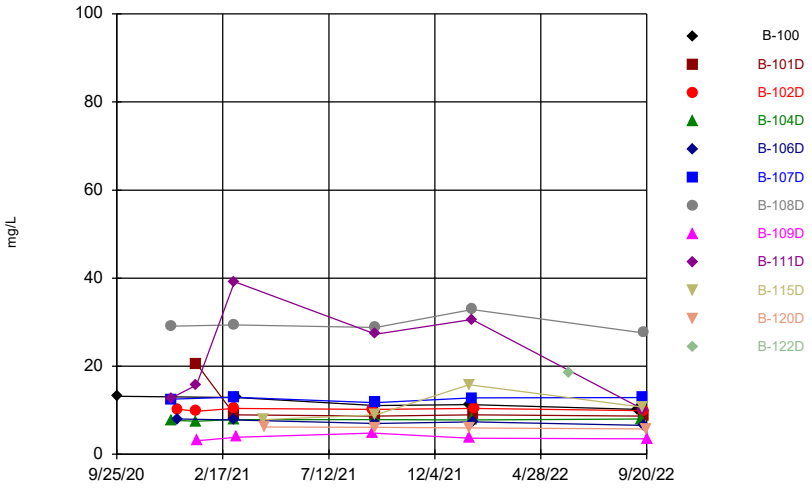
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

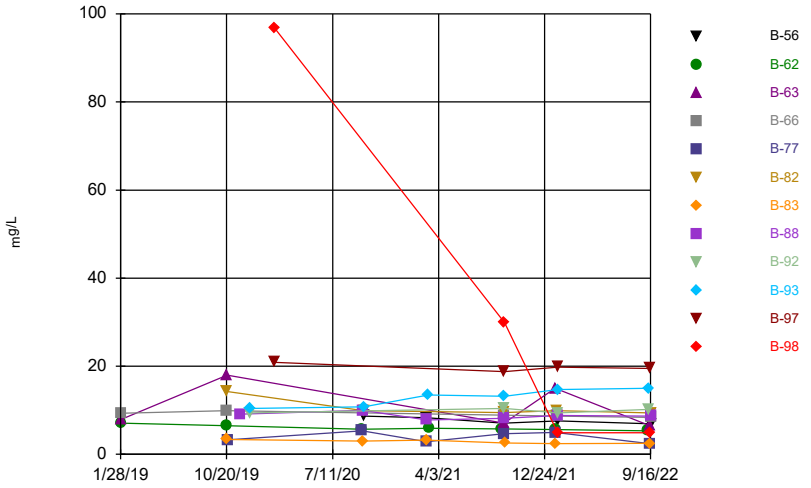
Time Series



Constituent: Chloride Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Time Series



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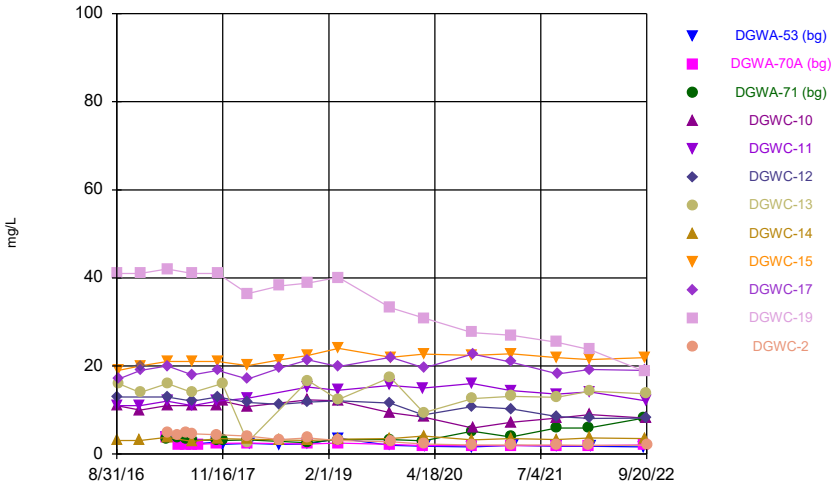
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

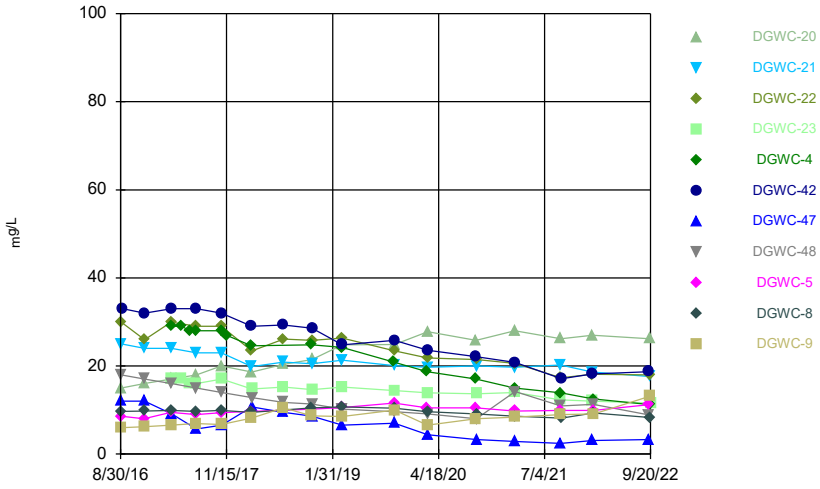
Time Series



Constituent: Chloride Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

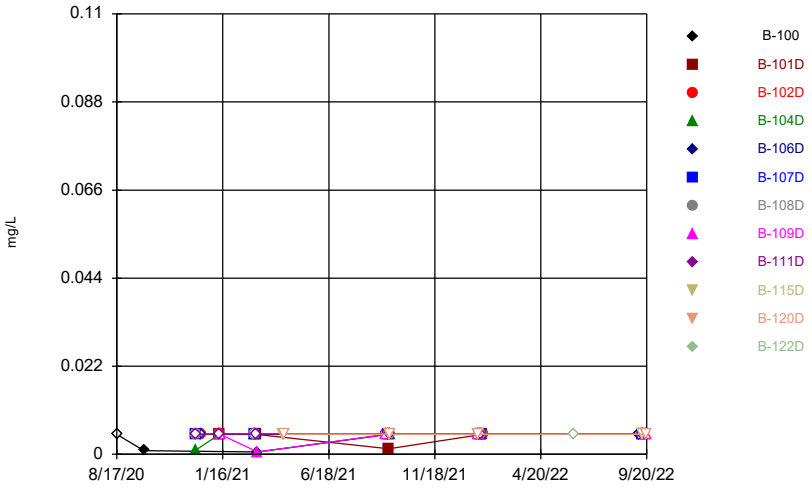
Time Series



Constituent: Chloride Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

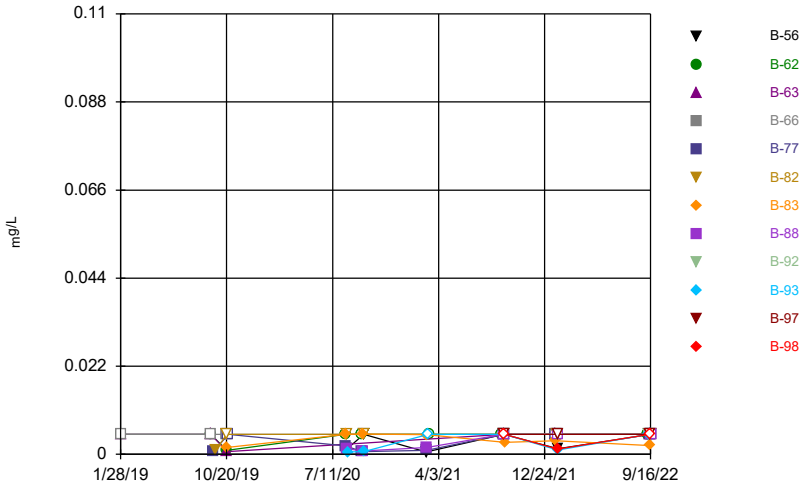
Time Series



Constituent: Chromium Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

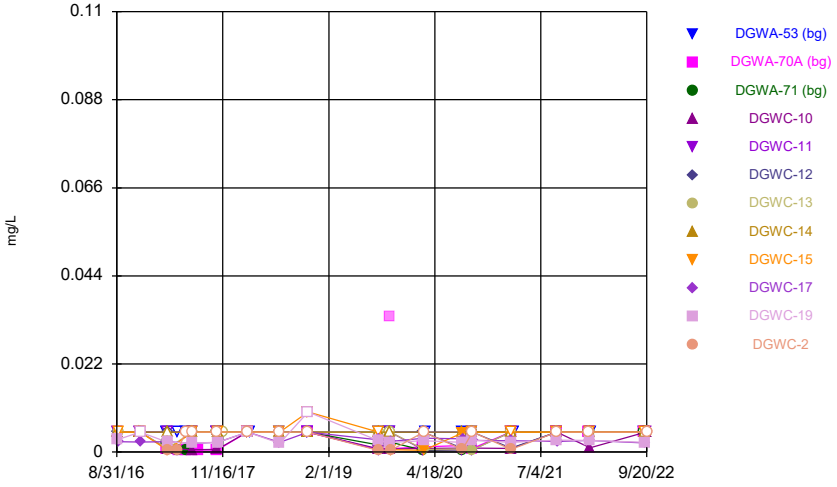
Time Series



Constituent: Chromium Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

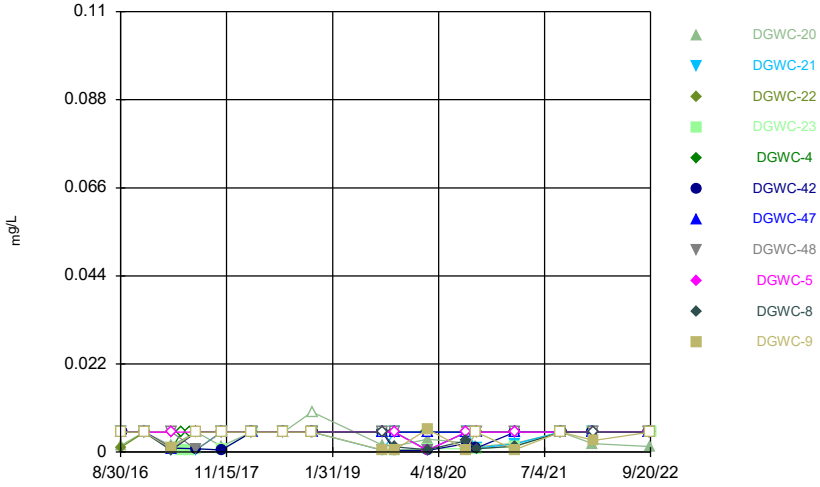
Time Series



Constituent: Chromium Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

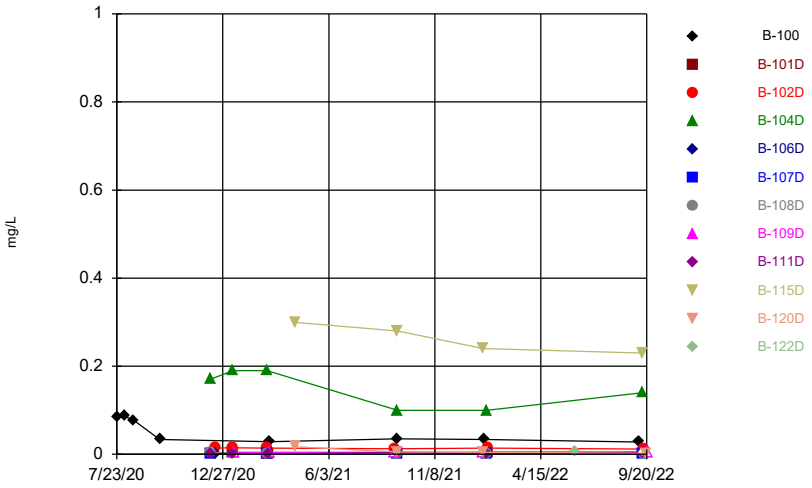
Time Series



Constituent: Chromium Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

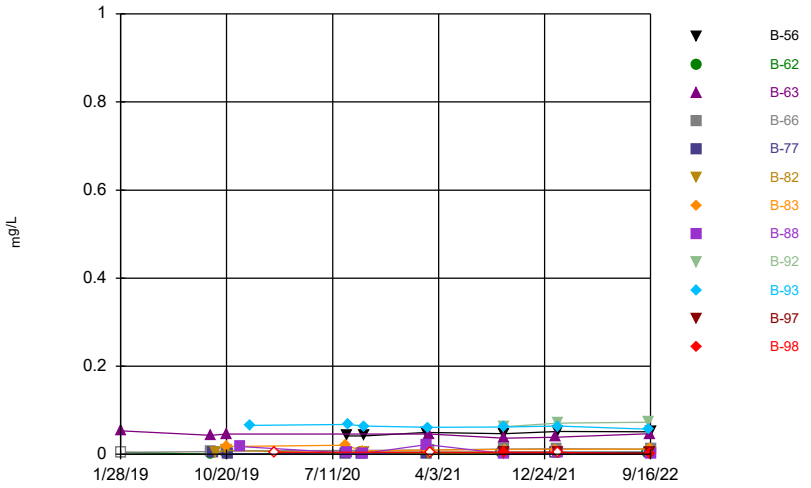
Time Series



Constituent: Cobalt Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

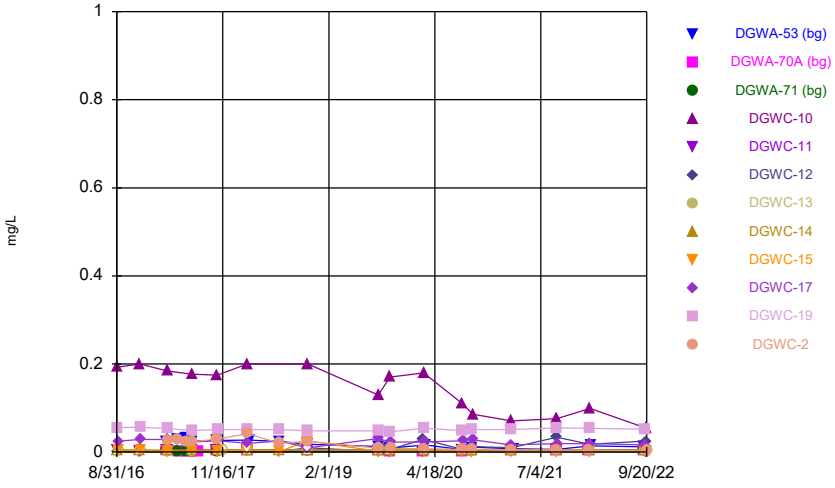
Time Series



Constituent: Cobalt Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

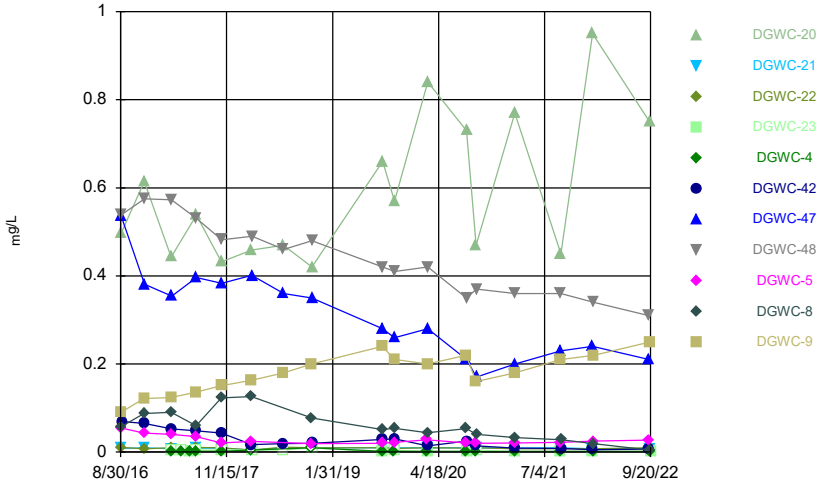
Time Series



Constituent: Cobalt Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

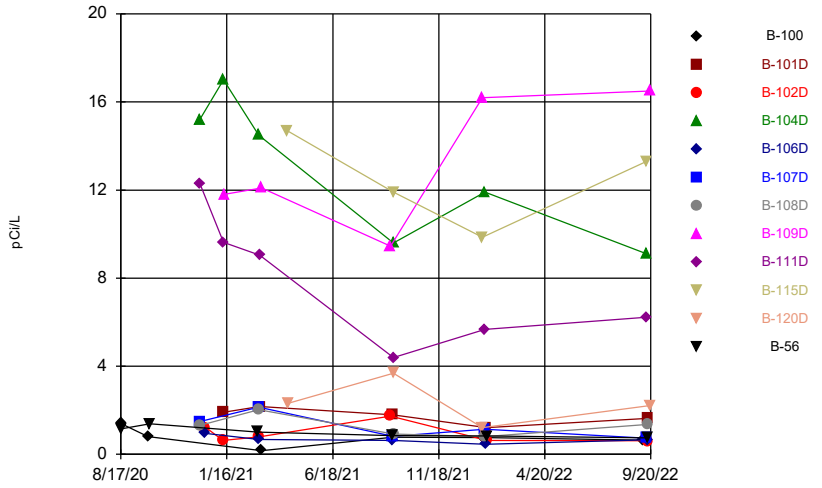
Time Series



Constituent: Cobalt Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

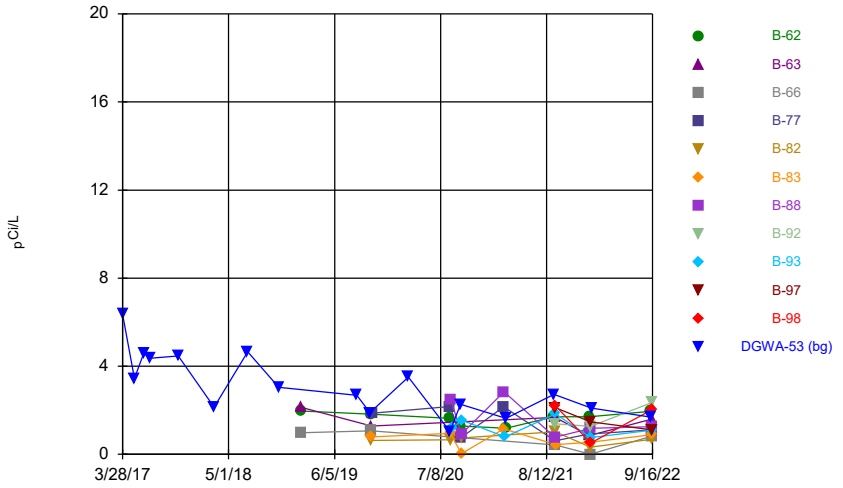
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

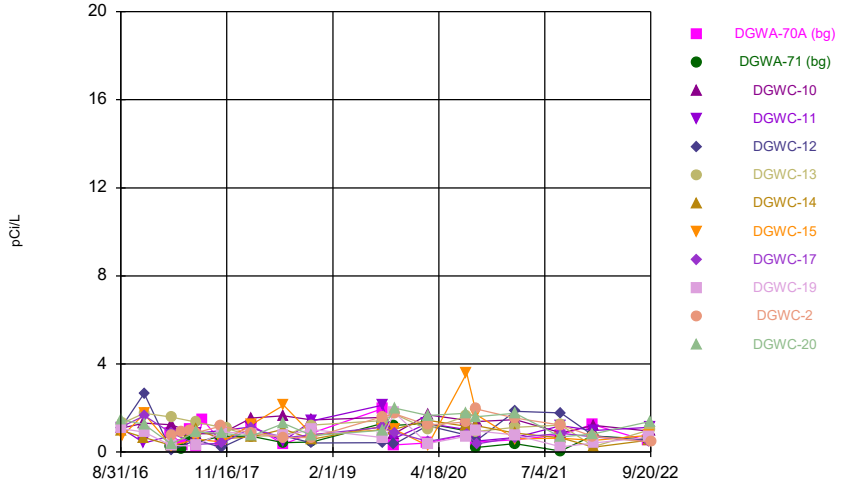
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

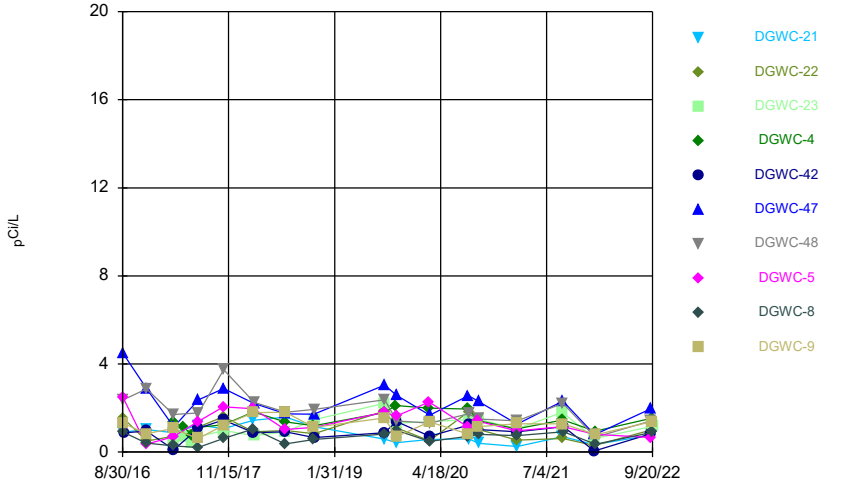
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

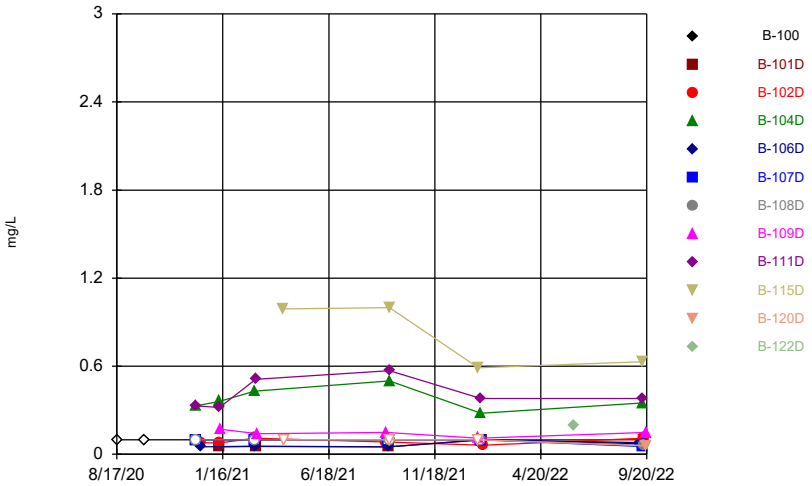
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

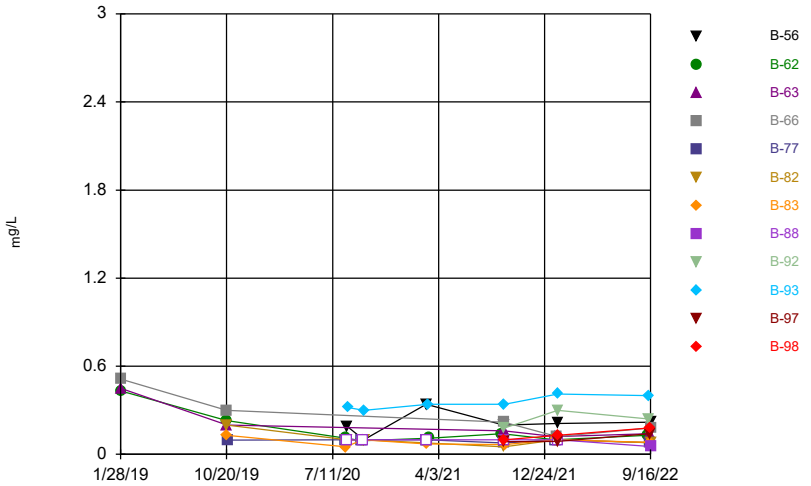
Time Series



Constituent: Fluoride Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

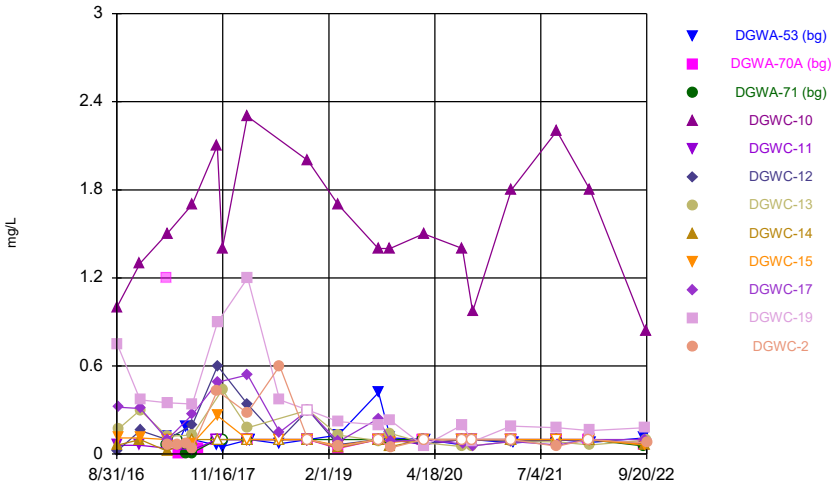
Time Series



Constituent: Fluoride Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

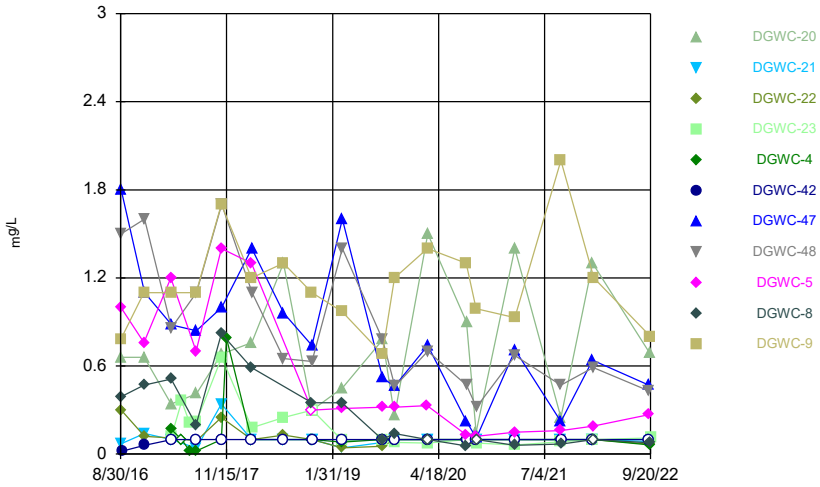
Time Series



Constituent: Fluoride Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

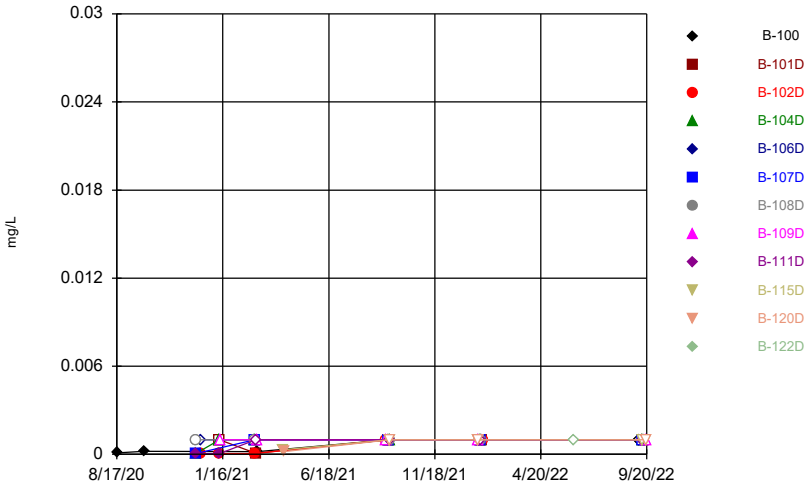
Time Series



Constituent: Fluoride Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

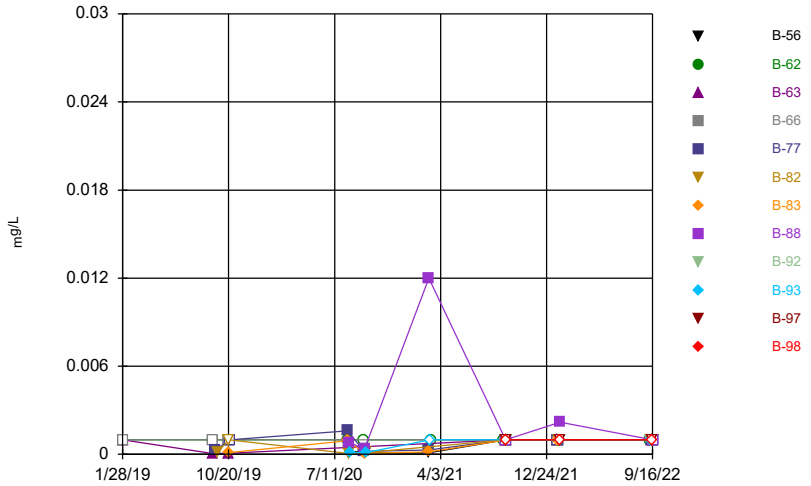
Time Series



Constituent: Lead Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

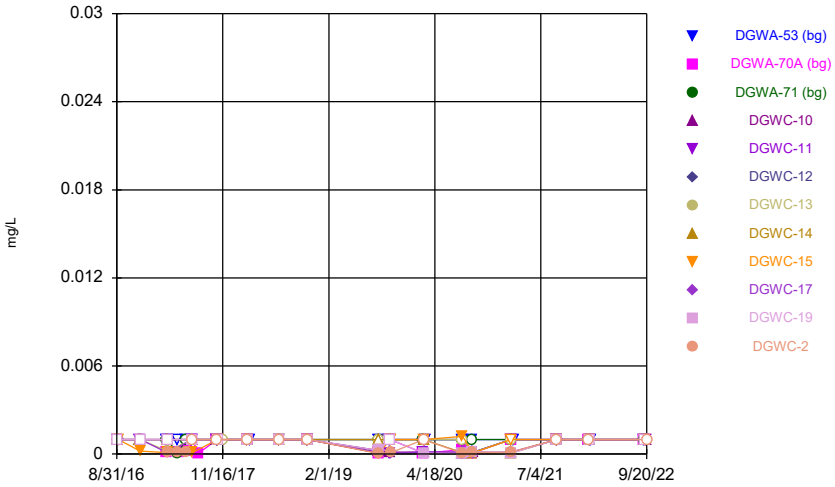
Time Series



Constituent: Lead Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

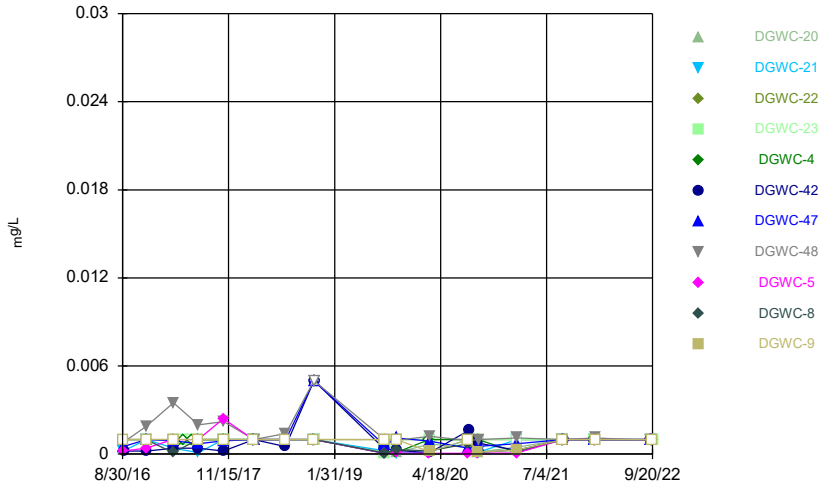
Time Series



Constituent: Lead Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

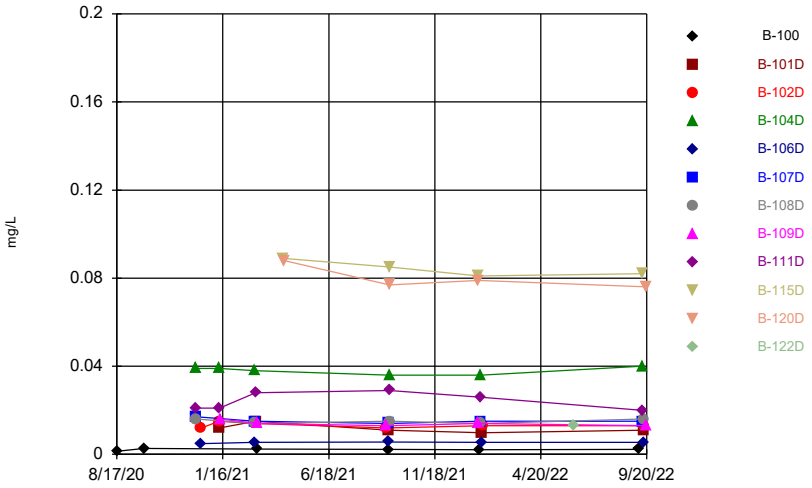
Time Series



Constituent: Lead Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

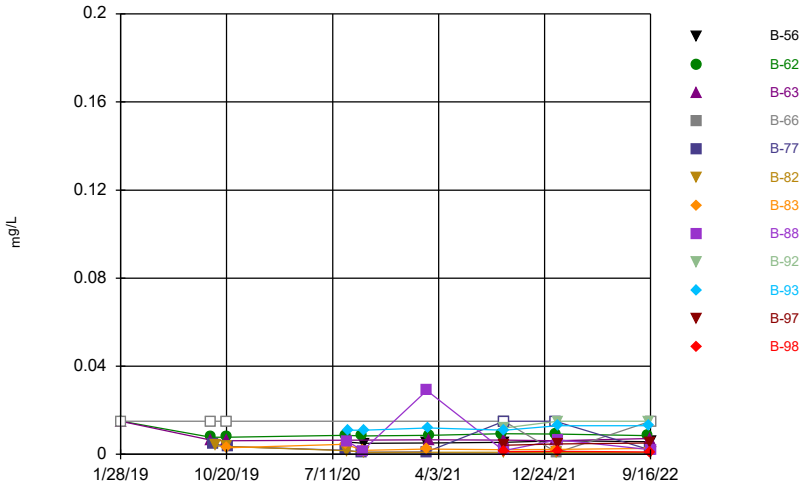
Time Series



Constituent: Lithium Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

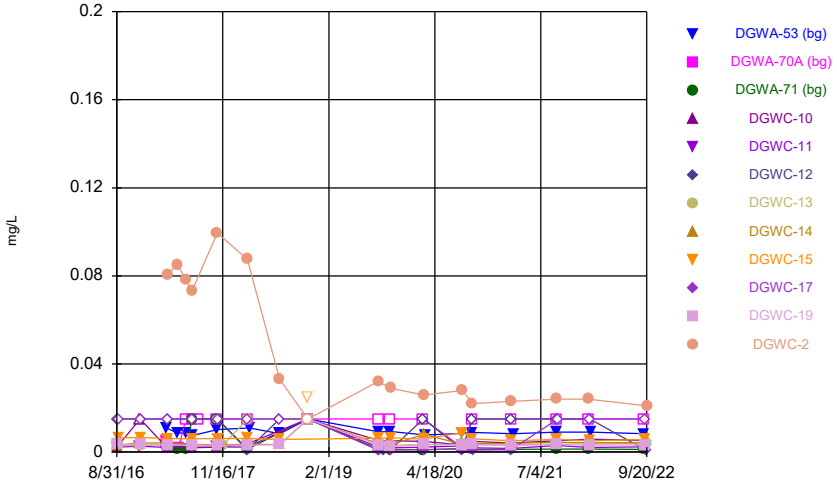
Time Series



Constituent: Lithium Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Time Series



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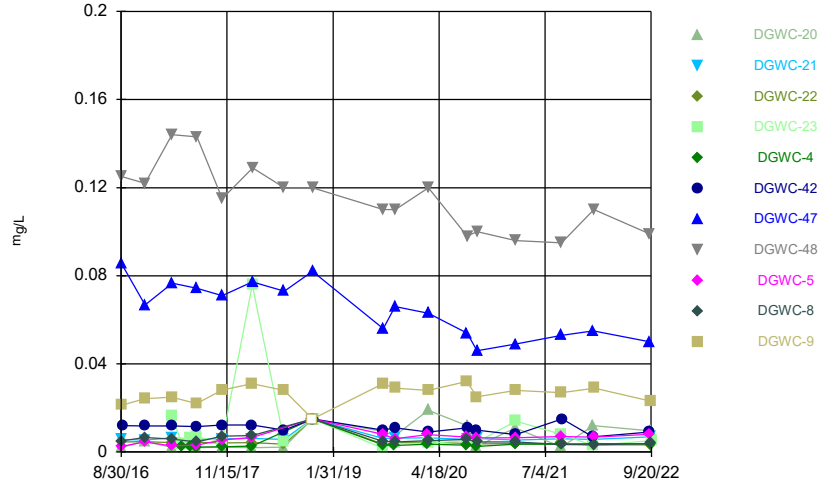
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

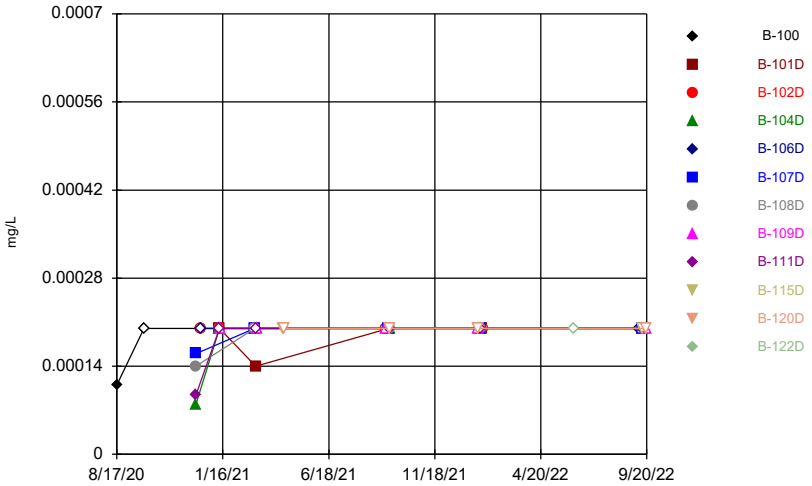
Time Series



Constituent: Lithium Analysis Run 11/17/2022 3:07 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

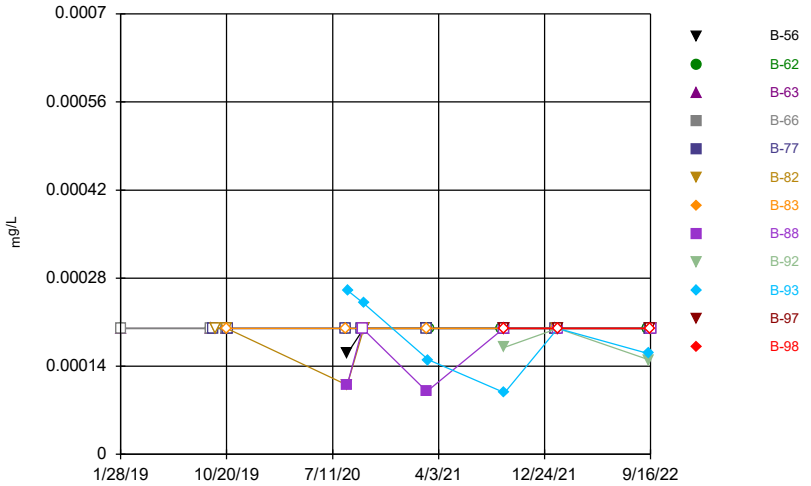
Time Series



Constituent: Mercury Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

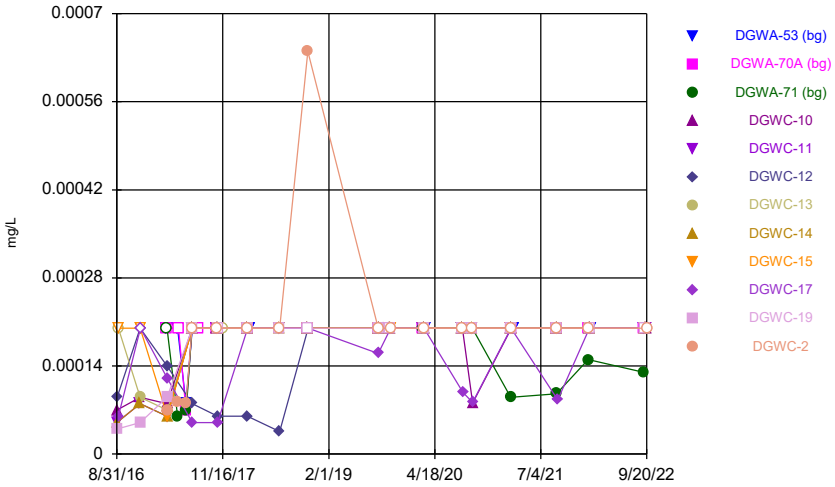
Time Series



Constituent: Mercury Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

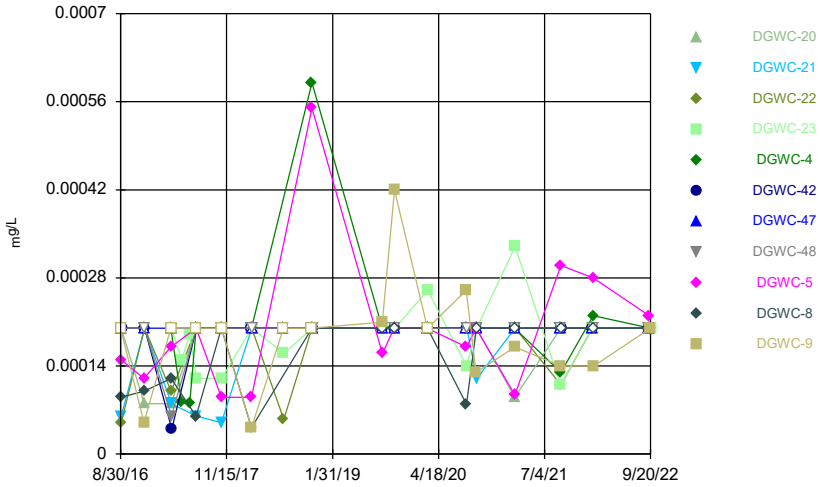
Time Series



Constituent: Mercury Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

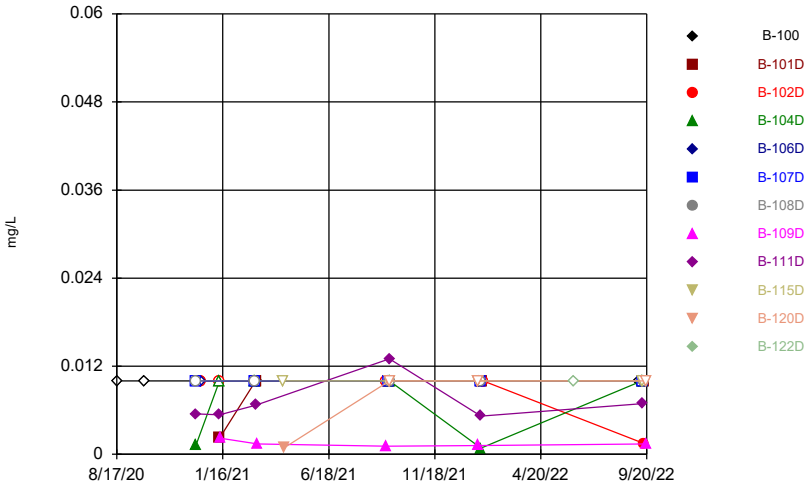
Time Series



Constituent: Mercury Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

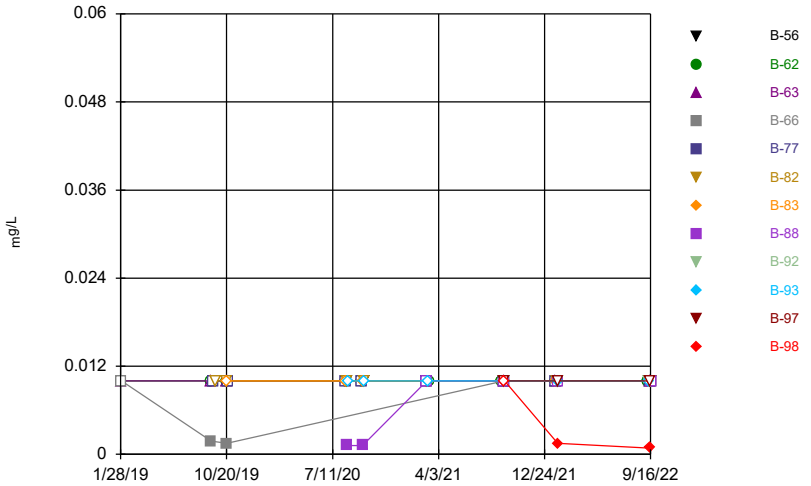
Time Series



Constituent: Molybdenum Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

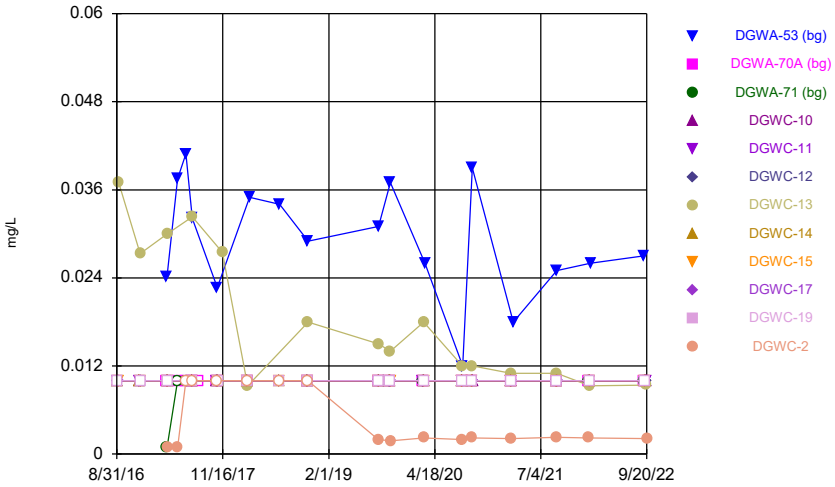
Time Series



Constituent: Molybdenum Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

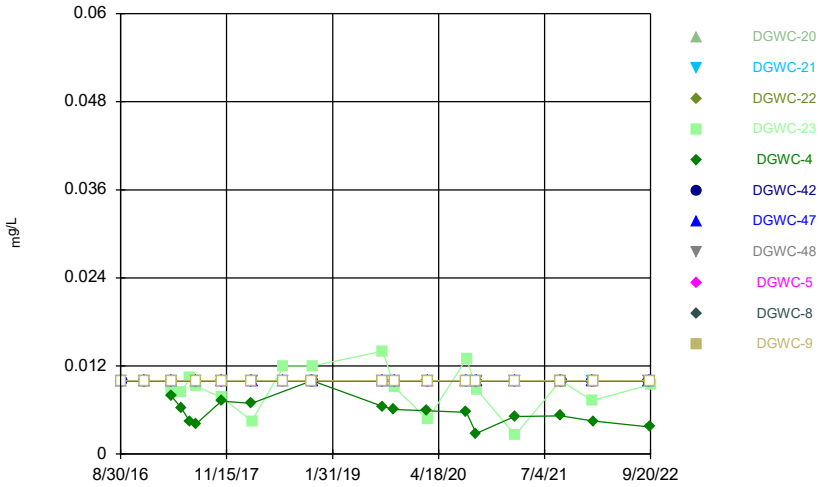
Time Series



Constituent: Molybdenum Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

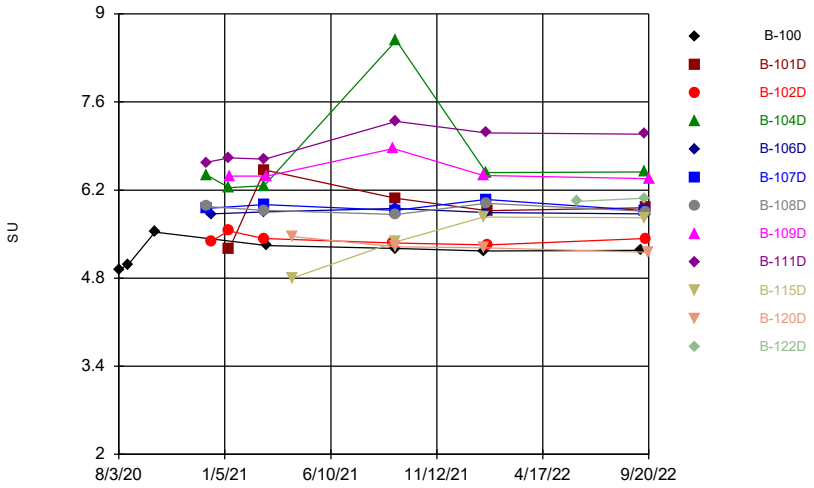
Time Series



Constituent: Molybdenum Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

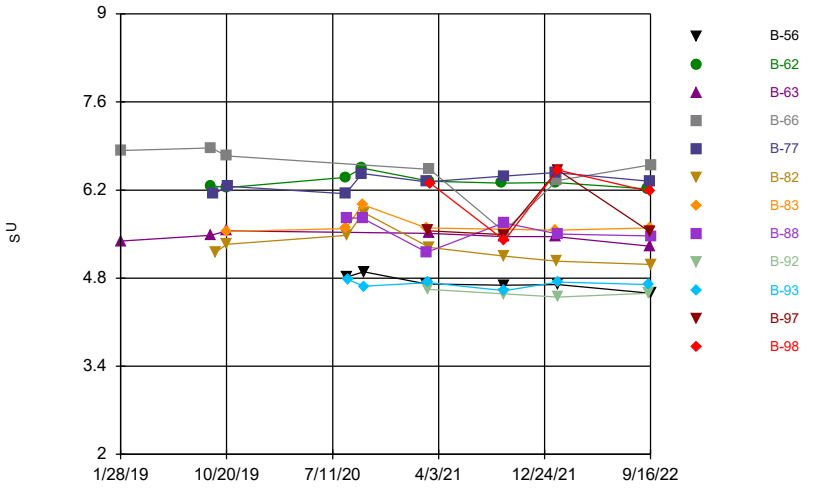
Time Series



Constituent: pH, Field Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

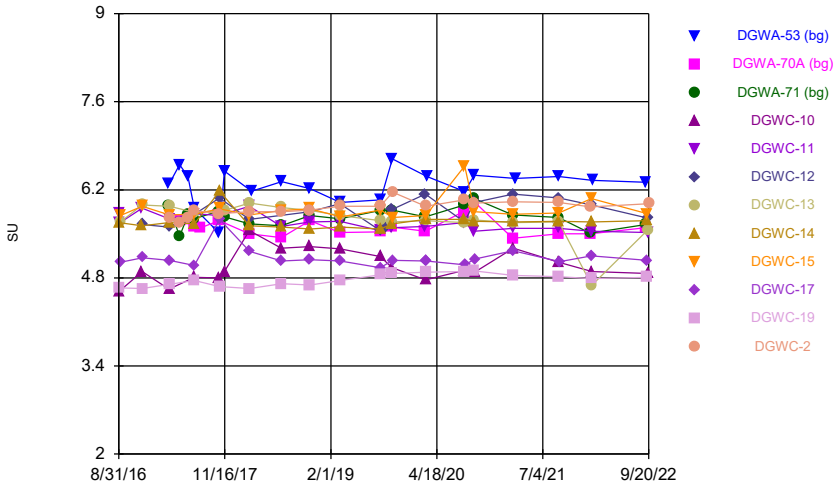
Time Series



Constituent: pH, Field Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

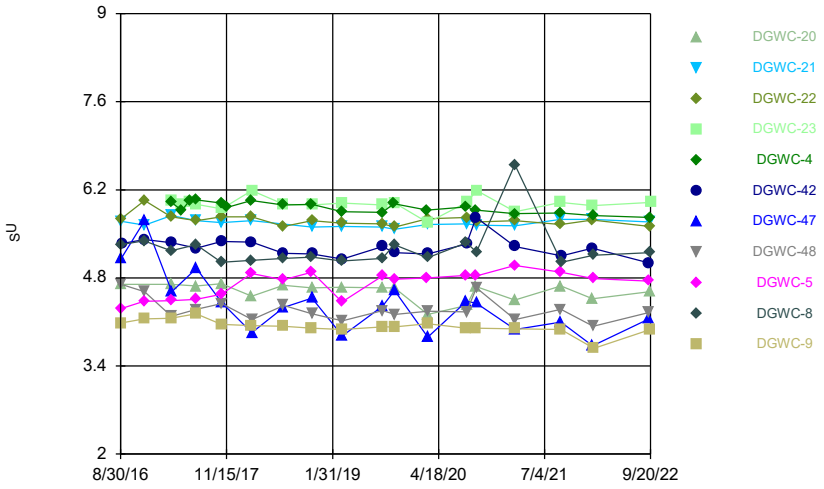
Time Series



Constituent: pH, Field Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

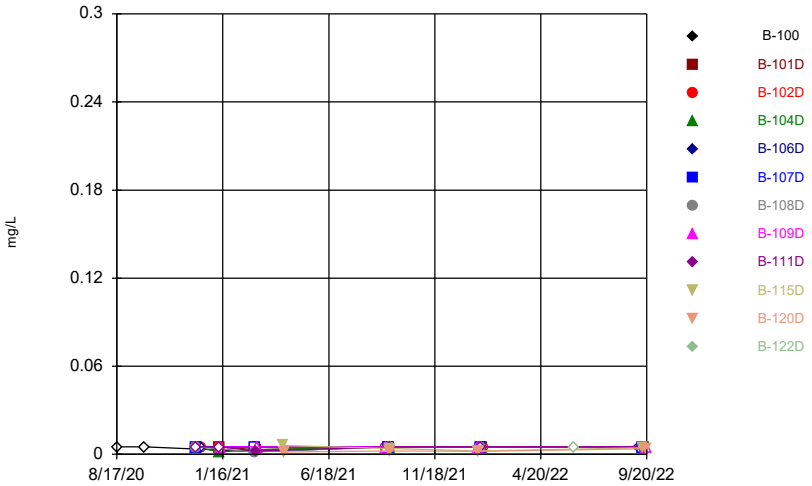
Time Series



Constituent: pH, Field Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

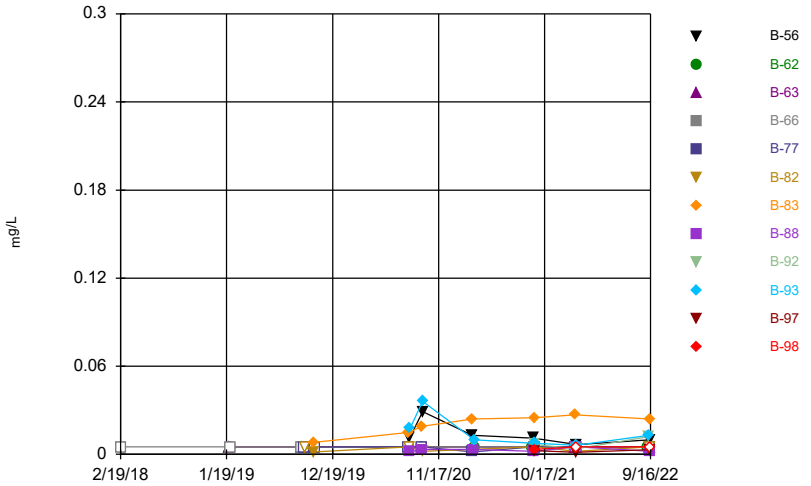
Time Series



Constituent: Selenium Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

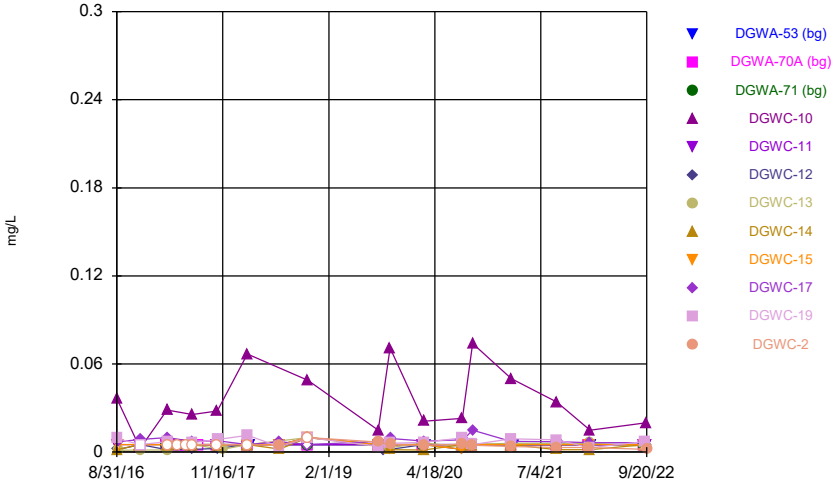
Time Series



Constituent: Selenium Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

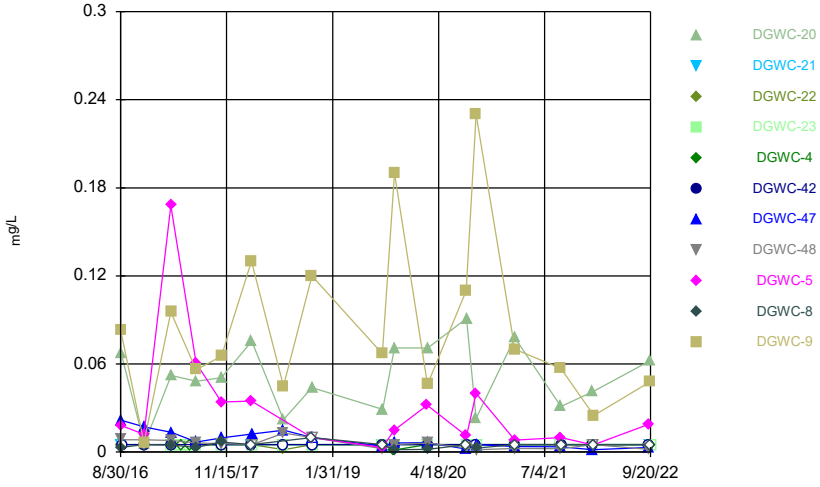
Time Series



Constituent: Selenium Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

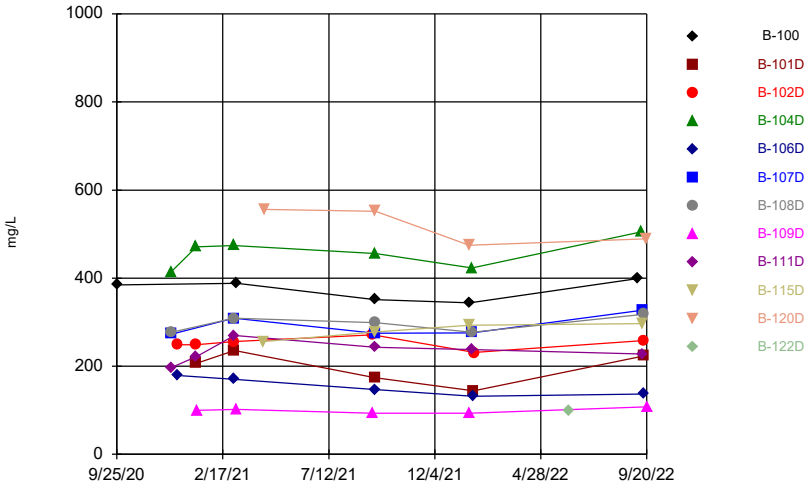
Time Series



Constituent: Selenium Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

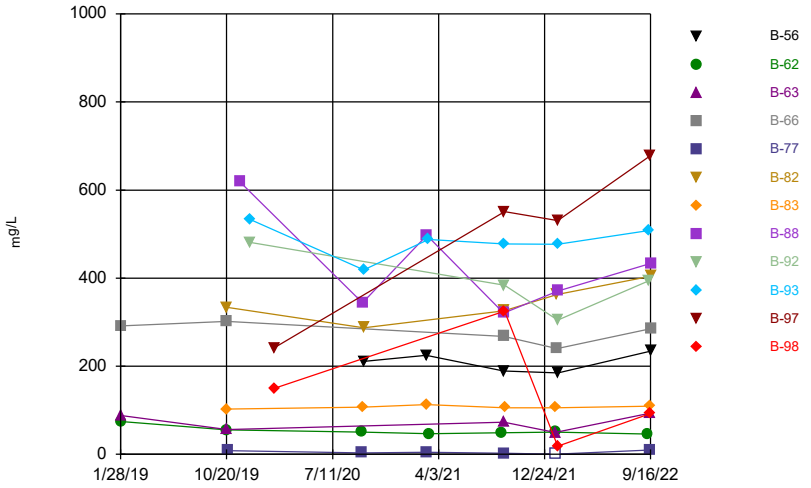
Time Series



Constituent: Sulfate Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

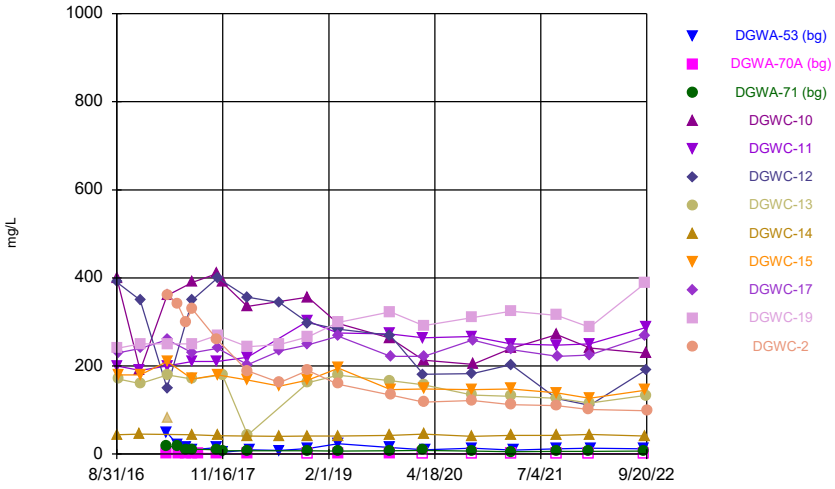
Time Series



Constituent: Sulfate Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

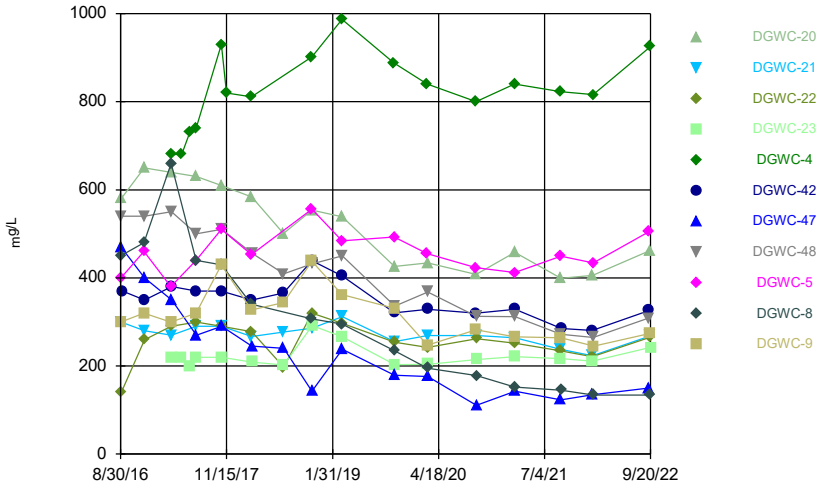
Time Series



Constituent: Sulfate Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

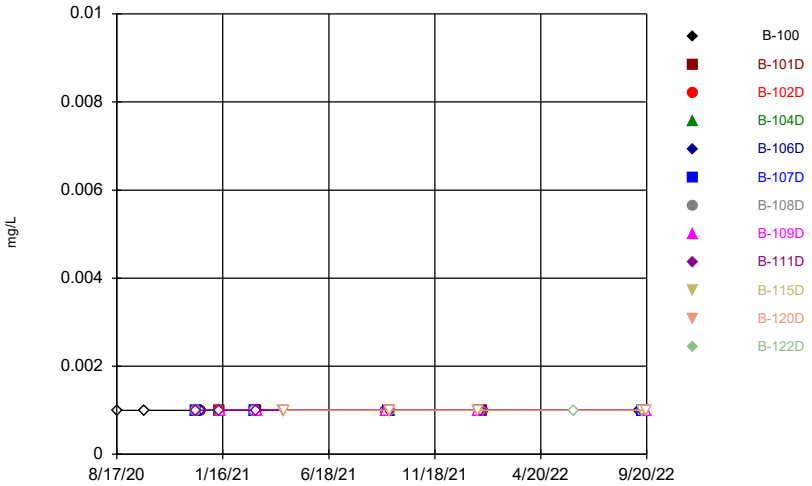
Time Series



Constituent: Sulfate Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

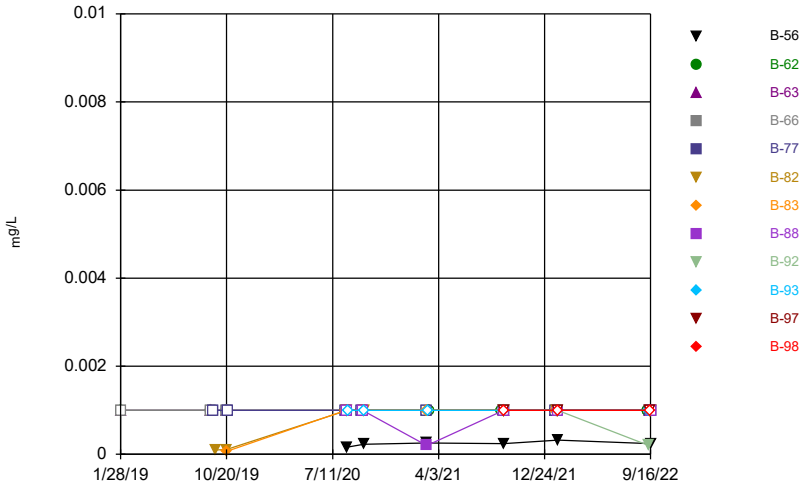
Time Series



Constituent: Thallium Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

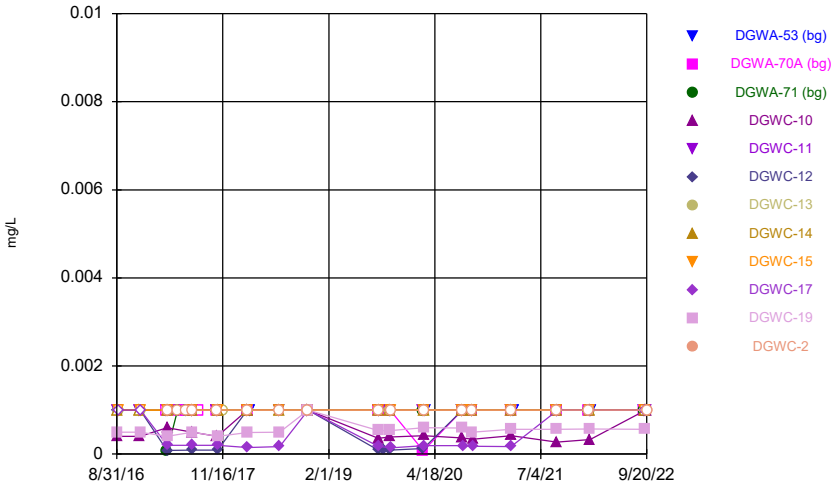
Time Series



Constituent: Thallium Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

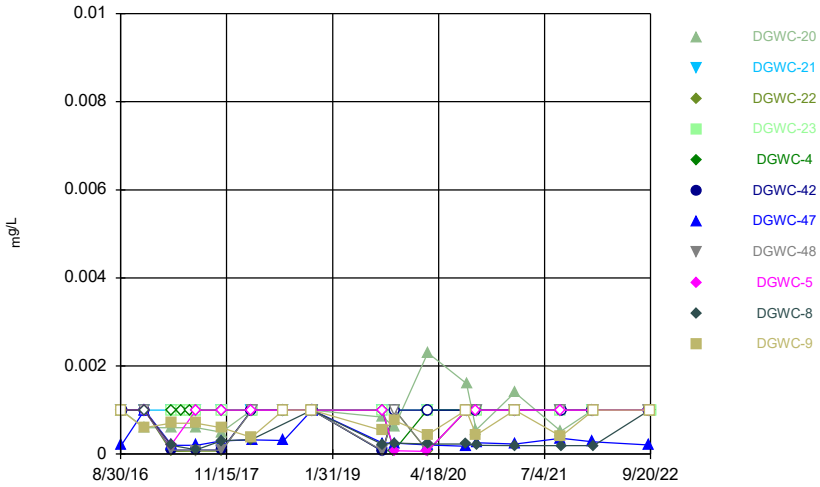
Time Series



Constituent: Thallium Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

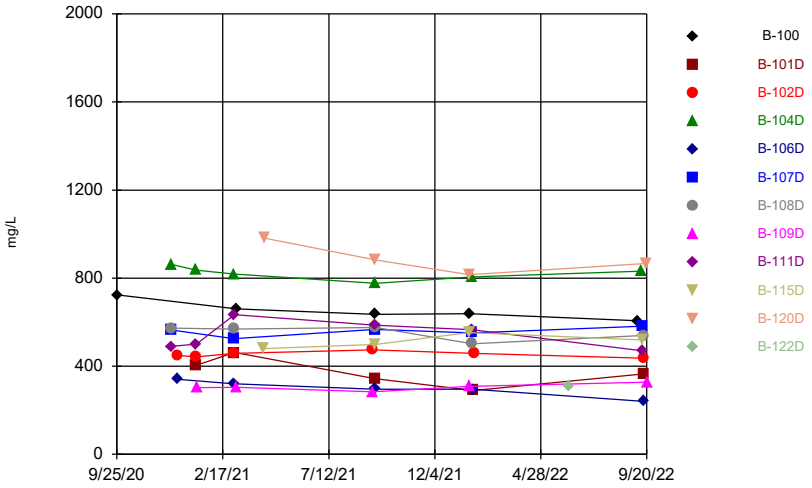
Time Series



Constituent: Thallium Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

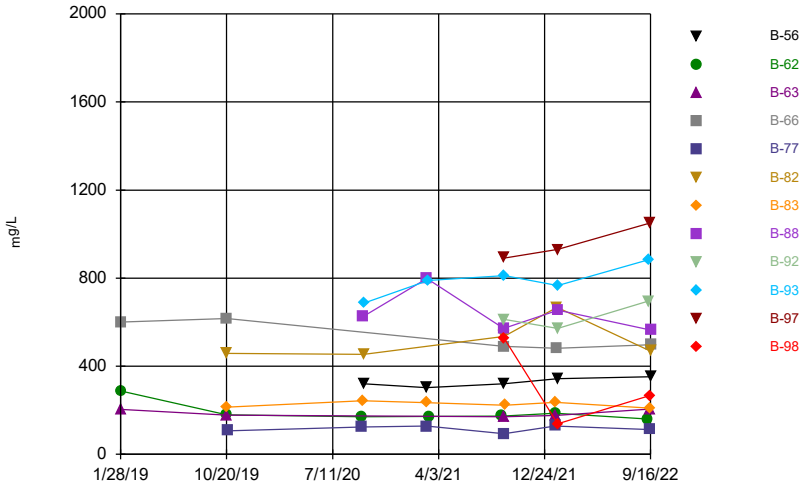
Time Series



Constituent: Total Dissolved Solids Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

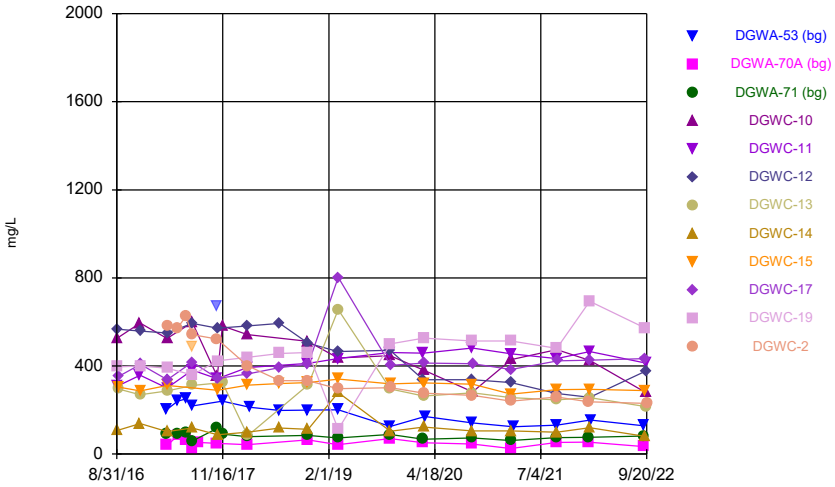
Time Series



Constituent: Total Dissolved Solids Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

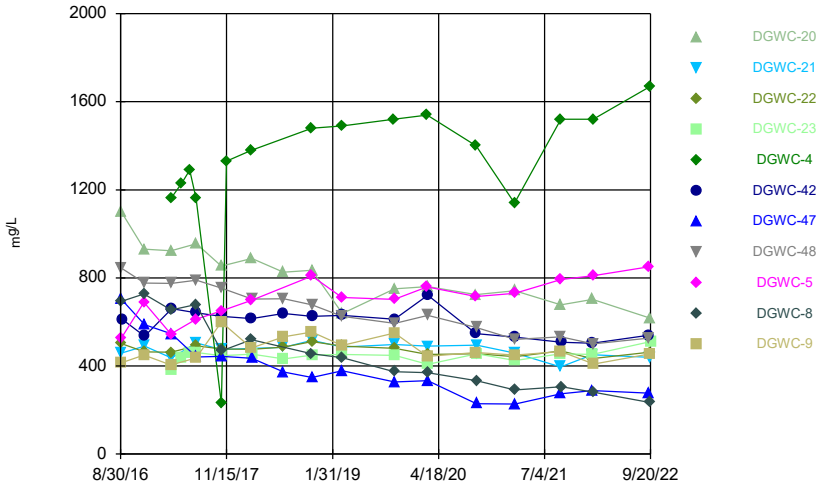
Time Series



Constituent: Total Dissolved Solids Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Time Series



Constituent: Total Dissolved Solids Analysis Run 11/17/2022 3:08 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	0.0013 (J)								
9/25/2020	<0.003								
12/9/2020				0.00079 (J)		<0.003	<0.003		<0.003
12/17/2020			0.0016 (J)		0.00048 (J)				
1/11/2021			<0.003						
1/12/2021		0.00039 (J)		0.00048 (J)					<0.003
1/13/2021								0.00042 (J)	
3/4/2021			<0.003	0.00077 (J)	<0.003	<0.003	<0.003		
3/5/2021		0.0019 (J)							0.0006 (J)
3/8/2021	0.0017 (J)							0.00084 (J)	
4/14/2021									
4/15/2021									
9/10/2021			<0.003					0.004	
9/13/2021	<0.003	0.001 (J)			<0.003	<0.003			
9/14/2021				<0.003			<0.003		<0.003
1/20/2022								<0.003	
1/21/2022	<0.003								
1/24/2022				0.001 (J)		<0.003	<0.003		<0.003
1/25/2022					<0.003				
1/26/2022		0.00082 (J)							
1/27/2022			<0.003						
6/6/2022									
9/8/2022	<0.003								
9/13/2022				<0.003					
9/14/2022						<0.003			<0.003
9/15/2022			<0.003				<0.003		
9/16/2022		<0.003			<0.003				
9/19/2022									
9/20/2022								<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	<0.003		
4/15/2021		0.00029 (J)	
9/10/2021			
9/13/2021			
9/14/2021	<0.003	<0.003	
1/20/2022	<0.003	<0.003	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			<0.003
9/8/2022			
9/13/2022			
9/14/2022	<0.003		
9/15/2022			
9/16/2022			
9/19/2022		<0.003	
9/20/2022			

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			<0.003						
1/30/2019		<0.003		<0.003					
9/11/2019		<0.003	<0.003						
9/12/2019				<0.003					
9/18/2019					<0.003				
9/23/2019						<0.003			
10/21/2019		<0.003		<0.003		<0.003	<0.003		
10/22/2019			0.00066 (J)						
10/24/2019					<0.003				
8/13/2020		<0.003			0.00043 (J)				
8/14/2020							<0.003		
8/17/2020	<0.003					<0.003		<0.003	
8/19/2020									
9/24/2020		0.00046 (J)			0.00036 (J)				
9/25/2020							<0.003	<0.003	
9/28/2020	<0.003					<0.003			
3/3/2021	<0.003								
3/4/2021					0.00063 (J)		<0.003		
3/5/2021								<0.003	
3/9/2021									
3/12/2021		<0.003							
9/9/2021		<0.003							
9/13/2021	<0.003							<0.003	
9/14/2021			<0.003	<0.003	<0.003	<0.003			
9/15/2021									<0.003
9/16/2021							<0.003		
1/20/2022		<0.003	<0.003		<0.003				
1/21/2022							<0.003		
1/25/2022				<0.003		<0.003			
1/26/2022									<0.003
1/27/2022	0.0011 (J)							<0.003	
9/8/2022		<0.003							
9/12/2022									<0.003
9/13/2022					<0.003		<0.003		
9/14/2022			<0.003						
9/16/2022	<0.003			<0.003		<0.003		<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98
1/28/2019			
1/30/2019			
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/21/2019			
10/22/2019			
10/24/2019			
8/13/2020			
8/14/2020			
8/17/2020			
8/19/2020	<0.003		
9/24/2020			
9/25/2020			
9/28/2020	0.0014 (J)		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	<0.003		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	<0.003	<0.003	<0.003
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.003	<0.003	<0.003
1/27/2022			
9/8/2022			
9/12/2022	0.00096 (J)		
9/13/2022		<0.003	<0.003
9/14/2022			
9/16/2022			

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				<0.003	<0.003			<0.003	
9/1/2016						<0.003			
9/6/2016							<0.003		<0.003
9/7/2016									
12/6/2016				<0.003	<0.003			<0.003	
12/7/2016						<0.003	<0.003		<0.003
12/8/2016									
3/28/2017	<0.003	<0.003	0.0007 (J)						
3/29/2017				<0.003	<0.003	<0.003		<0.003	
3/30/2017							<0.003		<0.003
5/11/2017	<0.003								
5/12/2017			<0.003						
5/15/2017		<0.003							
6/15/2017	0.0006 (J)	<0.003							
6/16/2017			0.0007 (J)						
7/11/2017		<0.003	<0.003						
7/12/2017	<0.003			<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/8/2017		<0.003							
10/24/2017	<0.003	<0.003	<0.003	<0.003	<0.003				
10/25/2017						<0.003		<0.003	<0.003
11/15/2017							<0.003		
2/27/2018		<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	
2/28/2018							<0.003		<0.003
3/8/2018	<0.003								
7/11/2018						<0.003		<0.003	<0.003
7/12/2018	<0.003								
11/6/2018		<0.003	<0.003	<0.003	<0.003				
11/7/2018	<0.003					<0.003	<0.003	<0.003	<0.003
8/27/2019		<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	
8/28/2019	<0.003						<0.003		0.00033 (J)
9/17/2019						<0.003			
10/15/2019		<0.003	<0.003	<0.003	<0.003	<0.003			
10/16/2019	<0.003						<0.003	<0.003	
10/17/2019									<0.003
10/18/2019									
3/2/2020		<0.003	0.0018 (J)		<0.003	0.0003 (J)			
3/3/2020				<0.003			<0.003	<0.003	<0.003
3/4/2020									
3/9/2020	<0.003								
8/11/2020		0.0013 (J)	0.0018 (J)	<0.003	<0.003	<0.003		<0.003	
8/12/2020							<0.003		
8/13/2020	0.0003 (J)								0.00073 (J)
8/14/2020									
9/22/2020	<0.003	<0.003	<0.003		<0.003	<0.003		0.0011 (J)	
9/23/2020							<0.003		<0.003
9/24/2020				<0.003					
3/1/2021		<0.003	0.0019 (J)						
3/2/2021					<0.003		<0.003	<0.003	<0.003
3/3/2021						<0.003			
3/4/2021				<0.003					
3/12/2021	<0.003								
9/8/2021			<0.003						

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
9/9/2021	<0.003	0.0015 (J)			<0.003	<0.003	<0.003	<0.003	<0.003
9/10/2021				<0.003					
9/13/2021									
1/18/2022		<0.003	<0.003						
1/20/2022									
1/24/2022									<0.003
1/25/2022					<0.003	<0.003	<0.003	<0.003	
1/26/2022				0.0021 (J)					
1/28/2022	<0.003								
9/7/2022		<0.003	<0.003						
9/8/2022	<0.003								
9/13/2022								<0.003	<0.003
9/14/2022									
9/15/2022				<0.003	<0.003	<0.003	<0.003		
9/20/2022									

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		<0.003	
9/6/2016			
9/7/2016	<0.003		
12/6/2016			
12/7/2016		<0.003	
12/8/2016	<0.003		
3/28/2017			
3/29/2017		<0.003	
3/30/2017	<0.003		<0.003
5/11/2017			<0.003
5/12/2017			
5/15/2017			
6/15/2017			0.0006 (J)
6/16/2017			
7/11/2017			<0.003
7/12/2017	<0.003	<0.003	
8/8/2017			
10/24/2017			<0.003
10/25/2017	<0.003	<0.003	
11/15/2017			
2/27/2018			<0.003
2/28/2018	<0.003	<0.003	
3/8/2018			
7/11/2018	<0.003	<0.003	<0.003
7/12/2018			
11/6/2018			<0.003
11/7/2018	<0.003	<0.003	
8/27/2019	<0.003		<0.003
8/28/2019		<0.003	
9/17/2019			
10/15/2019			
10/16/2019		<0.003	
10/17/2019			<0.003
10/18/2019	<0.003		
3/2/2020			
3/3/2020		<0.003	<0.003
3/4/2020	<0.003		
3/9/2020			
8/11/2020		<0.003	<0.003
8/12/2020			
8/13/2020			
8/14/2020	<0.003		
9/22/2020		0.00036 (J)	
9/23/2020			<0.003
9/24/2020	0.00045 (J)		
3/1/2021			
3/2/2021		<0.003	<0.003
3/3/2021	<0.003		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		<0.003	<0.003
9/10/2021			
9/13/2021	<0.003		
1/18/2022			
1/20/2022			<0.003
1/24/2022	<0.003		
1/25/2022		<0.003	
1/26/2022			
1/28/2022			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	<0.003	<0.003	
9/15/2022			
9/20/2022			<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									<0.003
9/1/2016							<0.003	<0.003	
9/2/2016	<0.003	<0.003	<0.003						
9/7/2016						<0.003			
12/6/2016									<0.003
12/7/2016	<0.003								
12/8/2016		<0.003	<0.003			<0.003	<0.003	<0.003	
3/28/2017					<0.003				<0.003
3/29/2017	<0.003		<0.003						
3/30/2017		<0.003		<0.003				<0.003	
3/31/2017						<0.003	<0.003		
5/12/2017				<0.003	<0.003				
6/15/2017				0.0007 (J)	0.0008 (J)				
7/11/2017					<0.003				<0.003
7/12/2017	<0.003	<0.003		<0.003					
7/13/2017			<0.003			<0.003	<0.003	<0.003	
10/24/2017					<0.003				
10/25/2017	<0.003	<0.003	<0.003			<0.003			<0.003
10/26/2017				<0.003			<0.003	<0.003	
2/27/2018					<0.003				<0.003
2/28/2018	<0.003	<0.003	<0.003			<0.003			
3/1/2018				<0.003			<0.003		
3/2/2018								<0.003	
7/11/2018	<0.003	0.0013 (J)				<0.003			
7/12/2018			<0.003	<0.003			<0.003	<0.003	
11/6/2018					<0.003				<0.003
11/7/2018	<0.003	<0.003	<0.003			<0.003	<0.003	<0.003	
11/8/2018				<0.003					
8/27/2019					<0.003				<0.003
8/28/2019						<0.003			
8/29/2019	<0.003	<0.003	<0.003	<0.003			<0.003	<0.003	
10/15/2019					<0.003				
10/16/2019									<0.003
10/17/2019	<0.003	<0.003				<0.003	<0.003		
10/18/2019			<0.003	<0.003				<0.003	
3/2/2020					0.00058 (J)				0.00032 (J)
3/3/2020		<0.003	<0.003						
3/4/2020	<0.003			<0.003		<0.003	<0.003	<0.003	
8/11/2020									
8/12/2020					<0.003		<0.003		<0.003
8/13/2020	<0.003			<0.003		<0.003		<0.003	
8/14/2020		<0.003	<0.003						
9/22/2020	<0.003				<0.003	<0.003			<0.003
9/23/2020							0.0012 (J)	0.00039 (J)	
9/24/2020		<0.003	<0.003	<0.003					
3/1/2021					0.00049 (J)				
3/2/2021	<0.003								0.0015 (J)
3/3/2021		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003	
9/9/2021		<0.003		<0.003					
9/10/2021	<0.003		<0.003		<0.003		<0.003	0.0018 (J)	<0.003
9/13/2021						<0.003			

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
1/20/2022		<0.003	<0.003	<0.003		<0.003			
1/21/2022	<0.003						<0.003		
1/24/2022					<0.003			<0.003	<0.003
1/25/2022									
1/26/2022									
9/13/2022						<0.003	<0.003	<0.003	
9/14/2022									<0.003
9/15/2022	<0.003	<0.003							
9/16/2022			<0.003						
9/19/2022					<0.003				
9/20/2022				<0.003					

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	<0.003	<0.003
8/31/2016		
9/1/2016		
9/2/2016		
9/7/2016		
12/6/2016	<0.003	<0.003
12/7/2016		
12/8/2016		
3/28/2017		<0.003
3/29/2017	<0.003	
3/30/2017		
3/31/2017		
5/12/2017		
6/15/2017		
7/11/2017	<0.003	<0.003
7/12/2017		
7/13/2017		
10/24/2017	<0.003	<0.003
10/25/2017		
10/26/2017		
2/27/2018	<0.003	<0.003
2/28/2018		
3/1/2018		
3/2/2018		
7/11/2018		<0.003
7/12/2018		
11/6/2018	<0.003	<0.003
11/7/2018		
11/8/2018		
8/27/2019		<0.003
8/28/2019	<0.003	
8/29/2019		
10/15/2019		
10/16/2019	<0.003	
10/17/2019		<0.003
10/18/2019		
3/2/2020		
3/3/2020	<0.003	<0.003
3/4/2020		
8/11/2020		<0.003
8/12/2020	<0.003	
8/13/2020		
8/14/2020		
9/22/2020		<0.003
9/23/2020	<0.003	
9/24/2020		
3/1/2021		
3/2/2021	0.00046 (J)	<0.003
3/3/2021		
9/9/2021		
9/10/2021		<0.003
9/13/2021	<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	<0.003	
1/26/2022		<0.003
9/13/2022		
9/14/2022		
9/15/2022	<0.003	
9/16/2022		
9/19/2022		<0.003
9/20/2022		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
7/23/2020	<0.005								
8/17/2020	<0.005								
9/25/2020	<0.005								
12/9/2020				<0.005		<0.005	<0.005		<0.005
12/17/2020			<0.005		<0.005				
1/11/2021			<0.005						
1/12/2021		<0.005		<0.005					<0.005
1/13/2021								<0.005	
3/4/2021			<0.005	0.0025 (J)	<0.005	<0.005	<0.005		
3/5/2021		0.0017 (J)							0.0023 (J)
3/8/2021	<0.005							<0.005	
4/14/2021									
4/15/2021									
9/10/2021			<0.005					<0.005	
9/13/2021	<0.005	<0.005			<0.005	<0.005			
9/14/2021				0.0019 (J)			<0.005		0.0029 (J)
1/20/2022								0.0026 (J)	
1/21/2022	<0.005								
1/24/2022				0.0035 (J)		<0.005	<0.005		0.0022 (J)
1/25/2022					<0.005				
1/26/2022		<0.005							
1/27/2022			<0.005						
6/6/2022									
9/8/2022	<0.005								
9/13/2022				<0.005					
9/14/2022						<0.005			<0.005
9/15/2022			<0.005				<0.005		
9/16/2022		<0.005			<0.005				
9/19/2022									
9/20/2022								<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
7/23/2020			
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	0.0028 (J)		
4/15/2021		<0.005	
9/10/2021			
9/13/2021			
9/14/2021	0.0018 (J)	<0.005	
1/20/2022	0.0027 (J)	0.0016 (J)	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			<0.005
9/8/2022			
9/13/2022			
9/14/2022	<0.005		
9/15/2022			
9/16/2022			
9/19/2022		<0.005	
9/20/2022			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
11/22/2016				<0.005					
2/19/2018				<0.005					
1/28/2019			<0.005						
1/30/2019		<0.005		<0.005					
9/11/2019		<0.005	<0.005						
9/12/2019				<0.005					
9/18/2019					<0.005				
9/23/2019						<0.005			
10/21/2019		<0.005		<0.005		<0.005	<0.005		
10/22/2019			<0.005						
10/24/2019					0.0029 (J)				
8/13/2020		<0.005			0.002 (J)				
8/14/2020							<0.005		
8/17/2020	0.0032 (J)					<0.005		<0.005	
8/19/2020									
9/24/2020		<0.005			0.0025 (J)				
9/25/2020							<0.005	<0.005	
9/28/2020	0.0047 (J)					<0.005			
3/3/2021	0.003 (J)								
3/4/2021					0.002 (J)		<0.005		
3/5/2021								<0.005	
3/9/2021									
3/12/2021		<0.005		<0.005		<0.005			
9/9/2021		<0.005							
9/13/2021	0.0031 (J)							<0.005	
9/14/2021			<0.005	<0.005	<0.005	<0.005			
9/15/2021									0.0012 (J)
9/16/2021							<0.005		
1/20/2022		0.0033 (J)	0.0022 (J)		0.003 (J)				
1/21/2022							0.0014 (J)		
1/25/2022				<0.005		0.003 (J)			
1/26/2022									0.0015 (J)
1/27/2022	0.0045 (J)							<0.005	
9/8/2022		<0.005							
9/12/2022									<0.005
9/13/2022					<0.005		<0.005		
9/14/2022			<0.005						
9/16/2022	<0.005			<0.005 (D)		<0.005 (D)		<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98
11/22/2016			
2/19/2018			
1/28/2019			
1/30/2019			
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/21/2019			
10/22/2019			
10/24/2019			
8/13/2020			
8/14/2020			
8/17/2020			
8/19/2020	0.0013 (J)		
9/24/2020			
9/25/2020			
9/28/2020	0.0027 (J)		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	<0.005		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	<0.005	<0.005	<0.005
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.002 (J)	0.0014 (J)	<0.005
1/27/2022			
9/8/2022			
9/12/2022	<0.005		
9/13/2022		<0.005	<0.005
9/14/2022			
9/16/2022			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				0.0058	<0.005			<0.005	
9/1/2016						<0.005			
9/6/2016							<0.005		<0.005
9/7/2016									
12/6/2016				0.0017 (J)	<0.005			<0.005	
12/7/2016						<0.005	<0.005		<0.005
12/8/2016									
3/28/2017	0.0005 (J)	<0.005	<0.005						
3/29/2017				0.0055	<0.005	<0.005		<0.005	
3/30/2017							<0.005		0.0006 (J)
5/11/2017	0.0005 (J)								
5/12/2017			0.0004 (J)						
5/15/2017		<0.005							
6/15/2017	<0.005	<0.005							
6/16/2017			<0.005						
7/11/2017		<0.005	<0.005						
7/12/2017	<0.005			0.0042 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
8/8/2017		<0.005							
10/24/2017	<0.005	<0.005	<0.005	0.0058	<0.005				
10/25/2017						0.0006 (J)		<0.005	<0.005
11/15/2017							<0.005		
2/27/2018		<0.005	<0.005	0.0105	<0.005	<0.005		<0.005	
2/28/2018							<0.005		<0.005
3/8/2018	<0.005								
7/11/2018						<0.005		<0.005	<0.005
7/12/2018	<0.005								
11/6/2018		<0.005	<0.005	<0.005 (J)	<0.005				
11/7/2018	<0.005 (J)					<0.005	<0.005	<0.005	<0.005
8/27/2019		<0.005	<0.005	0.0024 (J)	<0.005	<0.005		<0.005	
8/28/2019	<0.005						<0.005		<0.005
9/17/2019						<0.005			
10/15/2019		0.00052 (J)	0.00071 (J)	0.0078	<0.005	0.00063 (J)			
10/16/2019	0.0018 (J)						<0.005	0.00039 (J)	
10/17/2019									0.00064 (J)
10/18/2019									
3/2/2020		<0.005	<0.005		<0.005	<0.005			
3/3/2020				0.0025 (J)			<0.005	<0.005	<0.005
3/4/2020									
3/9/2020	0.00068 (J)								
8/11/2020		<0.005	<0.005	0.0028 (J)	<0.005	<0.005		<0.005	
8/12/2020							<0.005		
8/13/2020	<0.005								0.0013 (J)
8/14/2020									
9/22/2020	0.00093 (J)	<0.005	<0.005		<0.005	<0.005		<0.005	
9/23/2020							<0.005		<0.005
9/24/2020				0.0078					
3/1/2021		<0.005	<0.005						
3/2/2021					<0.005		<0.005	<0.005	<0.005
3/3/2021						<0.005			
3/4/2021				0.006					
3/12/2021	<0.005								
9/8/2021			<0.005						

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
9/9/2021	<0.005	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005
9/10/2021				0.0076					
9/13/2021									
1/18/2022		0.0046 (J)	0.0054						
1/20/2022									
1/24/2022									<0.005
1/25/2022					<0.005	<0.005	<0.005	<0.005	
1/26/2022				0.0043 (J)					
1/28/2022	0.0024 (J)								
9/7/2022		0.0024 (J)	<0.005						
9/8/2022	0.0029 (J)								
9/13/2022								<0.005	<0.005
9/14/2022									
9/15/2022				0.0024 (J)	<0.005	<0.005	<0.005		
9/20/2022									

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0022 (J)	
9/6/2016			
9/7/2016	<0.005		
12/6/2016			
12/7/2016		<0.005	
12/8/2016	<0.005		
3/28/2017			
3/29/2017		0.002 (J)	
3/30/2017	0.0008 (J)		<0.005
5/11/2017			<0.005
5/12/2017			
5/15/2017			
6/15/2017			<0.005
6/16/2017			
7/11/2017			<0.005
7/12/2017	<0.005	0.0016 (J)	
8/8/2017			
10/24/2017			<0.005
10/25/2017	0.0007 (J)	0.0022 (J)	
11/15/2017			
2/27/2018			<0.005
2/28/2018	0.00073 (J)	0.0028 (J)	
3/8/2018			
7/11/2018	<0.005	0.0009 (J)	<0.005
7/12/2018			
11/6/2018			<0.005
11/7/2018	<0.005	<0.005 (J)	
8/27/2019	<0.005		0.00099 (J)
8/28/2019		0.00049 (J)	
9/17/2019			
10/15/2019			
10/16/2019		0.00046 (J)	
10/17/2019			<0.005
10/18/2019	0.0012 (J)		
3/2/2020			
3/3/2020		<0.005	0.0025 (J)
3/4/2020	0.0014 (J)		
3/9/2020			
8/11/2020		0.0014 (J)	<0.005
8/12/2020			
8/13/2020			
8/14/2020	<0.005		
9/22/2020		0.0017 (J)	
9/23/2020			<0.005
9/24/2020	0.0011 (J)		
3/1/2021			
3/2/2021		0.0013 (J)	<0.005
3/3/2021	<0.005		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.0027 (J)	<0.005
9/10/2021			
9/13/2021	<0.005		
1/18/2022			
1/20/2022			0.0023 (J)
1/24/2022	0.0014 (J)		
1/25/2022		0.0014 (J)	
1/26/2022			
1/28/2022			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	<0.005	<0.005	
9/15/2022			
9/20/2022			<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									0.0035 (J)
9/1/2016							0.0037 (J)	<0.005	
9/2/2016	0.0159	<0.005	<0.005						
9/7/2016						<0.005			
12/6/2016									0.0032 (J)
12/7/2016	0.0037 (J)								
12/8/2016		<0.005	<0.005			<0.005	0.0032 (J)	<0.005	
3/28/2017					0.0005 (J)				0.0385
3/29/2017	0.015		<0.005						
3/30/2017		<0.005		<0.005				0.0015 (J)	
3/31/2017						0.0007 (J)	0.0031 (J)		
5/12/2017				<0.005	0.0005 (J)				
6/15/2017				<0.005	<0.005				
7/11/2017					0.0008 (J)				0.0203
7/12/2017	0.0121	<0.005		<0.005					
7/13/2017			<0.005			<0.005	0.0018 (J)	0.0012 (J)	
10/24/2017					<0.005				
10/25/2017	0.0135	<0.005	<0.005			<0.005			0.0119
10/26/2017				<0.005			0.0016 (J)	0.0008 (J)	
2/27/2018					<0.005				0.0094
2/28/2018	0.0177	<0.005	0.001 (J)			0.0011 (J)			
3/1/2018				<0.005			0.0029 (J)		
3/2/2018								0.0017 (J)	
7/11/2018	0.0055	<0.005				<0.005			
7/12/2018			<0.005	<0.005			0.0023 (J)	0.0015 (J)	
11/6/2018					<0.005				<0.005
11/7/2018	0.0054	<0.005	<0.005			<0.005	<0.005 (J)	<0.005	
11/8/2018				<0.005					
8/27/2019					<0.005				<0.005
8/28/2019						<0.005			
8/29/2019	0.0064	<0.005	<0.005	<0.005			0.00089 (J)	<0.005	
10/15/2019					<0.005				
10/16/2019									0.0036 (J)
10/17/2019	0.0094	<0.005				<0.005	0.0013 (J)		
10/18/2019			<0.005	<0.005				0.00079 (J)	
3/2/2020					<0.005				0.0052
3/3/2020		<0.005	<0.005						
3/4/2020	0.029			<0.005		<0.005	0.0012 (J)	0.0006 (J)	
8/11/2020									
8/12/2020					<0.005		0.00081 (J)		0.002 (J)
8/13/2020	0.014			<0.005		<0.005		<0.005	
8/14/2020		<0.005	<0.005						
9/22/2020	0.0063				<0.005	<0.005			0.0062
9/23/2020							<0.005	<0.005	
9/24/2020		<0.005	<0.005	<0.005					
3/1/2021					<0.005				
3/2/2021	0.019								0.0013 (J)
3/3/2021		<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	
9/9/2021		<0.005		<0.005					
9/10/2021	0.0083		<0.005		<0.005		0.0016 (J)	<0.005	0.0031 (J)
9/13/2021						<0.005			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
1/20/2022		<0.005	<0.005	<0.005		<0.005			
1/21/2022	0.015						0.0036 (J)		
1/24/2022					0.0011 (J)			<0.005	0.0019 (J)
1/25/2022									
1/26/2022									
9/13/2022						<0.005	<0.005	<0.005	
9/14/2022									0.0038 (J)
9/15/2022	0.016	<0.005							
9/16/2022			<0.005						
9/19/2022					<0.005				
9/20/2022				<0.005					

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	<0.005	0.0241
8/31/2016		
9/1/2016		
9/2/2016		
9/7/2016		
12/6/2016	<0.005	<0.005
12/7/2016		
12/8/2016		
3/28/2017		0.0243
3/29/2017	0.001 (J)	
3/30/2017		
3/31/2017		
5/12/2017		
6/15/2017		
7/11/2017	0.0012 (J)	0.0194
7/12/2017		
7/13/2017		
10/24/2017	0.0015 (J)	0.0249
10/25/2017		
10/26/2017		
2/27/2018	0.002 (J)	0.0405
2/28/2018		
3/1/2018		
3/2/2018		
7/11/2018		0.016
7/12/2018		
11/6/2018	<0.005	0.017
11/7/2018		
11/8/2018		
8/27/2019		0.021
8/28/2019	<0.005	
8/29/2019		
10/15/2019		
10/16/2019	<0.005	
10/17/2019		0.033
10/18/2019		
3/2/2020		
3/3/2020	0.00096 (J)	0.015
3/4/2020		
8/11/2020		0.022
8/12/2020	<0.005	
8/13/2020		
8/14/2020		
9/22/2020		0.04
9/23/2020	<0.005	
9/24/2020		
3/1/2021		
3/2/2021	<0.005	0.021
3/3/2021		
9/9/2021		
9/10/2021		0.031
9/13/2021	<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	<0.005	
1/26/2022		0.012
9/13/2022		
9/14/2022		
9/15/2022	<0.005	
9/16/2022		
9/19/2022		0.016
9/20/2022		

Time Series

Constituent: Barium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	0.015								
9/25/2020	0.022								
12/9/2020				0.026		0.13	0.066		0.027
12/17/2020			0.022		0.022				
1/11/2021			0.024						
1/12/2021		0.076		0.022					0.027
1/13/2021								0.06	
3/4/2021			0.022	0.021	0.021	0.12	0.06		
3/5/2021		0.064							0.038
3/8/2021	0.022							0.056	
4/14/2021									
4/15/2021									
9/10/2021			0.02					0.022	
9/13/2021	0.021	0.076			0.02	0.087			
9/14/2021				0.021			0.06		0.043
1/20/2022								0.047	
1/21/2022	0.023								
1/24/2022				0.024		0.092	0.056		0.038
1/25/2022					0.02				
1/26/2022		0.062							
1/27/2022			0.022						
6/6/2022									
9/8/2022	0.021								
9/13/2022				0.021					
9/14/2022						0.057			0.028
9/15/2022			0.019				0.054		
9/16/2022		0.063			0.021				
9/19/2022									
9/20/2022								0.055	

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Constituent: Barium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	0.018		
4/15/2021		0.044	
9/10/2021			
9/13/2021			
9/14/2021	0.016	0.031	
1/20/2022	0.015	0.025	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			0.039
9/8/2022			
9/13/2022			
9/14/2022	0.014		
9/15/2022			
9/16/2022			
9/19/2022		0.023	
9/20/2022			

Time Series

Constituent: Barium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			0.028						
1/30/2019		0.018		0.016					
9/11/2019		0.023	0.021						
9/12/2019				0.017					
9/18/2019					0.086				
9/23/2019						0.031			
10/21/2019		0.026		0.018		0.03	0.034		
10/22/2019			0.021						
10/24/2019					0.1				
8/13/2020		0.026			0.11				
8/14/2020							0.056		
8/17/2020	0.03					0.024		0.022	
8/19/2020									
9/24/2020		0.025			0.12				
9/25/2020							0.027	0.021	
9/28/2020	0.026					0.023			
3/3/2021	0.028								
3/4/2021					0.11		0.032		
3/5/2021								0.022	
3/9/2021									
3/12/2021		0.027							
9/9/2021		0.021							
9/13/2021	0.026							0.016	
9/14/2021			0.026	0.018	0.12	0.022			
9/15/2021									0.015
9/16/2021							0.03		
1/20/2022		0.021	0.02		0.13				
1/21/2022							0.024		
1/25/2022				0.021		0.026			
1/26/2022									0.016
1/27/2022	0.03							0.018	
9/8/2022		0.018							
9/12/2022									0.017
9/13/2022					0.089		0.025		
9/14/2022			0.032						
9/16/2022	0.028			0.02		0.02		0.016	

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Constituent: Barium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98
1/28/2019			
1/30/2019			
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/21/2019			
10/22/2019			
10/24/2019			
8/13/2020			
8/14/2020			
8/17/2020			
8/19/2020	0.018		
9/24/2020			
9/25/2020			
9/28/2020	0.017		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	0.016 (J)		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	0.016	0.02	0.082
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.021	0.02	0.035
1/27/2022			
9/8/2022			
9/12/2022	0.015		
9/13/2022		0.02	0.092
9/14/2022			
9/16/2022			

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Constituent: Barium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				0.0321	0.0545			0.0576	
9/1/2016						0.0254			
9/6/2016							0.0297		0.0497
9/7/2016									
12/6/2016				0.029	0.0564			0.0608	
12/7/2016						0.0241	0.0266		0.0469
12/8/2016									
3/28/2017	0.134	0.0166	0.0378						
3/29/2017				0.0335	0.0565	0.0268		0.0693	
3/30/2017							0.0308		0.0495
5/11/2017	0.126								
5/12/2017			0.04						
5/15/2017		0.0181							
6/15/2017	0.14	0.0277							
6/16/2017			0.0369						
7/11/2017		0.0306	0.0362						
7/12/2017	0.173			0.0314	0.0572	0.0262	0.0291	0.0585	0.0517
8/8/2017		0.0277							
10/24/2017	0.109	0.0333	0.0313	0.0317	0.0596				
10/25/2017						0.0268		0.0563	0.0474
11/15/2017							0.0309		
2/27/2018		0.0341	0.0287	0.028	0.0672	0.0255		0.0591	
2/28/2018							<0.01		0.0455
3/8/2018	0.19								
7/11/2018						0.026		0.061	0.05
7/12/2018	0.18								
11/6/2018		0.037	0.026	0.025	0.074				
11/7/2018	0.15					0.028	0.034	0.055	0.042
8/27/2019		0.037	0.027	0.021	0.071	0.024		0.059	
8/28/2019	0.087						0.033		0.047
9/17/2019						0.02			
10/15/2019		0.034	0.024	0.024	0.064	0.02			
10/16/2019	0.077						0.034	0.059	
10/17/2019									0.046
10/18/2019									
3/2/2020		0.035	0.026		0.071	0.04			
3/3/2020				0.024			0.035	0.064	0.05
3/4/2020									
3/9/2020	0.099								
8/11/2020		0.041	0.026	0.024	0.064	0.028		0.061	
8/12/2020							0.032		
8/13/2020	0.046								0.06
8/14/2020									
9/22/2020	0.07	0.038	0.024		0.058	0.036		0.06	
9/23/2020							0.03		0.043
9/24/2020				0.021					
3/1/2021		0.042	0.028						
3/2/2021					0.052		0.03	0.064	0.043
3/3/2021						0.035			
3/4/2021				0.025					
3/12/2021	0.076								
9/8/2021			0.025						

Time Series

Constituent: Barium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
9/9/2021	0.099	0.038			0.054	0.04	0.027	0.059	0.041
9/10/2021				0.019					
9/13/2021									
1/18/2022		0.043	0.029						
1/20/2022									
1/24/2022									0.041
1/25/2022					0.047	0.054	0.028	0.064	
1/26/2022				0.022					
1/28/2022	0.068								
9/7/2022		0.039	0.025						
9/8/2022	0.077								
9/13/2022								0.063	0.042
9/14/2022									
9/15/2022				0.018	0.047	0.035	0.027		
9/20/2022									

Time Series

Constituent: Barium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0214	
9/6/2016			
9/7/2016	0.0694		
12/6/2016			
12/7/2016		0.0191	
12/8/2016	0.062		
3/28/2017			
3/29/2017		0.0209	
3/30/2017	0.0615		0.0232
5/11/2017			0.0231
5/12/2017			
5/15/2017			
6/15/2017			0.0223
6/16/2017			
7/11/2017			0.0201
7/12/2017	0.0532	0.0212	
8/8/2017			
10/24/2017			0.0206
10/25/2017	0.0544	0.021	
11/15/2017			
2/27/2018			0.0207
2/28/2018	0.0527	0.0213	
3/8/2018			
7/11/2018	0.053	0.023	0.022
7/12/2018			
11/6/2018			0.021
11/7/2018	0.044	0.024	
8/27/2019	0.05		0.023
8/28/2019		0.026	
9/17/2019			
10/15/2019			
10/16/2019		0.024	
10/17/2019			0.022
10/18/2019	0.045		
3/2/2020			
3/3/2020		0.028	0.022
3/4/2020	0.044		
3/9/2020			
8/11/2020		0.027	0.022
8/12/2020			
8/13/2020			
8/14/2020	0.046		
9/22/2020		0.026	
9/23/2020			0.023
9/24/2020	0.033		
3/1/2021			
3/2/2021		0.026	0.023
3/3/2021	0.036		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Barium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.025	0.022
9/10/2021			
9/13/2021	0.031		
1/18/2022			
1/20/2022			0.022
1/24/2022	0.031		
1/25/2022		0.026	
1/26/2022			
1/28/2022			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	0.031	0.027	
9/15/2022			
9/20/2022			0.02

Time Series

Constituent: Barium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									0.0266 (O)
9/1/2016							0.0162	0.0157	
9/2/2016	0.0097 (J)	0.0252	0.0397						
9/7/2016						0.0194			
12/6/2016									0.0186
12/7/2016	0.0087 (J)								
12/8/2016		0.0262	0.0408			0.0189	0.0247	0.0155	
3/28/2017					0.0363				0.0187
3/29/2017	0.0094 (J)		0.0417						
3/30/2017		0.0272		0.0184				0.0131	
3/31/2017						0.0194	0.0189		
5/12/2017				0.0202	0.0337				
6/15/2017				0.0188	0.03				
7/11/2017					0.0301				0.0174 (J)
7/12/2017	0.0099 (J)	0.0276		0.0186					
7/13/2017			0.0376			0.021	0.0165	0.014	
10/24/2017					0.0351				
10/25/2017	0.0096 (J)	0.0262	0.0384			0.0196			0.0175
10/26/2017				0.0176			0.0152	0.0117	
2/27/2018					0.0364				0.0172
2/28/2018	<0.01	0.027	0.0353			0.0171			
3/1/2018				0.0164			0.0164		
3/2/2018								0.0131	
7/11/2018	0.01	0.027				0.02			
7/12/2018			0.036	0.022			0.015	0.013	
11/6/2018					0.035				0.016
11/7/2018	0.011	0.024	0.031			0.017	0.02	0.014	
11/8/2018				0.022					
8/27/2019					0.036				0.017
8/28/2019						0.018			
8/29/2019	0.018	0.027	0.031	0.025			0.018	0.014	
10/15/2019					0.033				
10/16/2019									0.02
10/17/2019	0.015	0.027				0.018	0.019		
10/18/2019			0.032	0.019				0.014	
3/2/2020					0.036				0.018
3/3/2020		0.027	0.035						
3/4/2020	0.017			0.032		0.015	0.017	0.014	
8/11/2020									
8/12/2020					0.036		0.016		0.017
8/13/2020	0.019			0.027		0.027		0.013	
8/14/2020		0.027	0.035						
9/22/2020	0.011				0.03	0.016			0.017
9/23/2020							0.014	0.013	
9/24/2020		0.024	0.031	0.02					
3/1/2021					0.039				
3/2/2021	0.021								0.017
3/3/2021		0.024	0.031	0.019		0.015	0.02	0.014	
9/9/2021		0.023		0.021					
9/10/2021	0.0098		0.027		0.032		0.021	0.013	0.015
9/13/2021						0.014			

Time Series

Constituent: Barium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
1/20/2022		0.024	0.029	0.024		0.014			
1/21/2022	0.018						0.017		
1/24/2022					0.035			0.014	0.018
1/25/2022									
1/26/2022									
9/13/2022						0.016	0.022	0.014	
9/14/2022									0.018
9/15/2022	0.017	0.024							
9/16/2022			0.029						
9/19/2022					0.032				
9/20/2022				0.019					

Time Series

Constituent: Barium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	0.0435	0.0162
8/31/2016		
9/1/2016		
9/2/2016		
9/7/2016		
12/6/2016	0.0431	0.0138
12/7/2016		
12/8/2016		
3/28/2017		0.017
3/29/2017	0.044	
3/30/2017		
3/31/2017		
5/12/2017		
6/15/2017		
7/11/2017	0.0389	0.0154 (J)
7/12/2017		
7/13/2017		
10/24/2017	0.0369	0.0148
10/25/2017		
10/26/2017		
2/27/2018	0.0346	0.0148
2/28/2018		
3/1/2018		
3/2/2018		
7/11/2018		0.017
7/12/2018		
11/6/2018	0.027	0.015
11/7/2018		
11/8/2018		
8/27/2019		0.016
8/28/2019	0.025	
8/29/2019		
10/15/2019		
10/16/2019	0.027	
10/17/2019		0.015
10/18/2019		
3/2/2020		
3/3/2020	0.026	0.016
3/4/2020		
8/11/2020		0.016
8/12/2020	0.034	
8/13/2020		
8/14/2020		
9/22/2020		0.015
9/23/2020	0.025	
9/24/2020		
3/1/2021		
3/2/2021	0.029	0.017
3/3/2021		
9/9/2021		
9/10/2021		0.014
9/13/2021	0.019	

Time Series

Constituent: Barium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	0.019	
1/26/2022		0.016
9/13/2022		
9/14/2022		
9/15/2022	0.021	
9/16/2022		
9/19/2022		0.017
9/20/2022		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	0.0004 (J)								
9/25/2020	0.00035 (J)								
12/9/2020				0.0013 (J)		<0.0005	<0.0005		<0.0005
12/17/2020			0.0014 (J)		0.00012 (J)				
1/11/2021			0.0013 (J)						
1/12/2021		6.6E-05 (J)		0.0015 (J)					<0.0005
1/13/2021								5.9E-05 (J)	
3/4/2021			0.0012	0.0015	0.00013 (J)	5E-05 (J)	<0.0005		
3/5/2021		4.7E-05 (J)							<0.0005
3/8/2021	0.00046 (J)							7.9E-05 (J)	
4/14/2021									
4/15/2021									
9/10/2021			0.0011					<0.0005	
9/13/2021	0.00053	6.7E-05 (J)			0.00013 (J)	<0.0005			
9/14/2021				0.0011			<0.0005		<0.0005
1/20/2022								7.1E-05 (J)	
1/21/2022	0.00053								
1/24/2022				0.0012		<0.0005	<0.0005		<0.0005
1/25/2022					0.00011 (J)				
1/26/2022		7.9E-05 (J)							
1/27/2022			0.0011						
6/6/2022									
9/8/2022	0.00058								
9/13/2022				0.0014					
9/14/2022						<0.0005			<0.0005
9/15/2022			0.001				<0.0005		
9/16/2022		6.7E-05 (J)			0.00011 (J)				
9/19/2022									
9/20/2022								8E-05 (J)	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	0.012		
4/15/2021		0.00085	
9/10/2021			
9/13/2021			
9/14/2021	0.011	0.00087	
1/20/2022	0.011	0.0011	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			0.00024 (J)
9/8/2022			
9/13/2022			
9/14/2022	0.01		
9/15/2022			
9/16/2022			
9/19/2022		0.0011	
9/20/2022			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
10/6/2016		9E-05 (J)							
10/7/2016			0.0004 (J)						
11/22/2016				<0.0005					
2/19/2018			0.00049 (J)	<0.0005					
1/28/2019			<0.0005						
1/30/2019		<0.0005		<0.0005					
9/11/2019		0.00012 (J)	0.00035 (J)						
9/12/2019				<0.0005					
9/18/2019					0.00011 (J)				
9/23/2019						0.0015 (J)			
10/21/2019		7.8E-05 (J)		<0.0005		0.0011 (J)	0.00039 (J)		
10/22/2019			0.0003 (J)						
10/24/2019					<0.0005				
12/18/2019									0.022
12/19/2019									
2/17/2020									
2/27/2020									
8/13/2020		0.00011 (J)			0.00014 (J)				
8/14/2020							0.0007 (J)		
8/17/2020	0.0013 (J)					0.0014 (J)		0.0014 (J)	
8/19/2020									
9/24/2020		0.00013 (J)			5.3E-05 (J)				
9/25/2020							0.00028 (J)	0.00063 (J)	
9/28/2020	0.0012 (J)					0.0015 (J)			
3/3/2021	0.0011								
3/4/2021					5.7E-05 (J)		0.00037 (J)		
3/5/2021								0.005	
3/9/2021									0.017
3/12/2021		<0.0005							
3/15/2021									
9/9/2021		0.00014 (J)							
9/13/2021	0.0012							0.001	
9/14/2021			0.00042 (J)	<0.0005	<0.0005	0.0017			
9/15/2021									0.014
9/16/2021							0.00028 (J)		
1/20/2022		0.00015 (J)	0.00034 (J)		<0.0005				
1/21/2022							0.00039 (J)		
1/25/2022				<0.0005		0.0021			
1/26/2022									0.018
1/27/2022	0.0012							0.0019	
9/8/2022		0.00013 (J)							
9/12/2022									0.017
9/13/2022					0.00013 (J)		0.00044 (J)		
9/14/2022			0.00053						
9/16/2022	0.0013			<0.0005		0.002		0.0013	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98
10/6/2016			
10/7/2016			
11/22/2016			
2/19/2018			
1/28/2019			
1/30/2019			
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/21/2019			
10/22/2019			
10/24/2019			
12/18/2019			
12/19/2019	0.0069		
2/17/2020		<0.0005	<0.0005
2/27/2020		0.0019 (J)	<0.0005
8/13/2020			
8/14/2020			
8/17/2020			
8/19/2020	0.015		
9/24/2020			
9/25/2020			
9/28/2020	0.015		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	0.017	0.0019	
3/12/2021			
3/15/2021			<0.0005
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	0.015	0.0016	0.00087
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.017	0.0017	6.8E-05 (J)
1/27/2022			
9/8/2022			
9/12/2022	0.017		
9/13/2022		0.0017	6.2E-05 (J)
9/14/2022			
9/16/2022			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				0.0046	<0.0005			<0.0005	
9/1/2016						0.0002 (J)			
9/6/2016							<0.0005		<0.0005
9/7/2016									
12/6/2016				0.0048	<0.0005			<0.0005	
12/7/2016						0.0002 (J)	<0.0005		<0.0005
12/8/2016									
3/28/2017	<0.0005	<0.0005	9E-05 (J)						
3/29/2017				0.0048	<0.0005	0.0002 (J)		<0.0005	
3/30/2017							7E-05 (J)		<0.0005
5/11/2017	<0.0005								
5/12/2017			<0.0005						
5/15/2017		<0.0005							
6/15/2017	<0.0005	<0.0005							
6/16/2017			0.0001 (J)						
7/11/2017		<0.0005	<0.0005						
7/12/2017	<0.0005			0.0046	<0.0005	0.0002 (J)	<0.0005	<0.0005	<0.0005
8/8/2017		<0.0005							
10/24/2017	<0.0005	<0.0005	<0.0005	0.0048	<0.0005				
10/25/2017						0.0002 (J)		<0.0005	<0.0005
11/15/2017							<0.0005		
2/27/2018		<0.0005	<0.0005	0.0106	<0.0005	<0.0005		<0.0005	
2/28/2018							<0.0005		<0.0005
3/8/2018	<0.0005								
7/10/2018			0.0009 (J)						
7/11/2018						0.0002 (J)		<0.0005	<0.0005
7/12/2018	<0.0005								
11/6/2018		0.00012 (J)	0.00013 (J)	0.012	<0.003 (J)				
11/7/2018	<0.0005					<0.003 (J)	<0.003 (J)	<0.0005	<0.003 (J)
8/27/2019		7.9E-05 (J)	<0.0005	0.0092	0.00014 (J)	0.00028 (J)		<0.0005	
8/28/2019	<0.0005						<0.0005		<0.0005
9/17/2019						0.00049 (J)			
10/15/2019		<0.0005	8.8E-05 (J)	0.01	0.00012 (J)	0.00016 (J)			
10/16/2019	<0.0005						<0.0005	<0.0005	
10/17/2019									<0.0005
10/18/2019									
3/2/2020		9.6E-05 (J)	0.0001 (J)		0.00016 (J)	7.4E-05 (J)			
3/3/2020				0.0085			<0.0005	<0.0005	<0.0005
3/4/2020									
3/9/2020	<0.0005								
8/11/2020		0.00013 (J)	0.00011 (J)	0.0066	0.00011 (J)	0.00024 (J)		<0.0005	
8/12/2020							7.8E-05 (J)		
8/13/2020	<0.0005								0.00022 (J)
8/14/2020									
9/22/2020	<0.0005	6.8E-05 (J)	6.9E-05 (J)		0.00015 (J)	0.00017 (J)		<0.0005	
9/23/2020							6.8E-05 (J)		5.8E-05 (J)
9/24/2020				0.0077					
3/1/2021		0.00012 (J)	0.00011 (J)						
3/2/2021					0.00014 (J)		7.3E-05 (J)	<0.0005	<0.0005
3/3/2021						0.00011 (J)			
3/4/2021				0.0086					
3/12/2021	<0.0005								

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
9/8/2021			9.1E-05 (J)						
9/9/2021	<0.0005	8.9E-05 (J)			0.00013 (J)	8.4E-05 (J)	7E-05 (J)	<0.0005	<0.0005
9/10/2021				0.0074					
9/13/2021									
1/18/2022		9.2E-05 (J)	0.00012 (J)						
1/20/2022									
1/24/2022									<0.0005
1/25/2022					0.00019 (J)	<0.0005	9.1E-05 (J)	<0.0005	
1/26/2022				0.0091					
1/28/2022	<0.0005								
9/7/2022		8.4E-05 (J)	7.5E-05 (J)						
9/8/2022	<0.0005								
9/13/2022								<0.0005	<0.0005
9/14/2022									
9/15/2022				0.0063	0.00018 (J)	0.00019 (J)	8E-05 (J)		
9/20/2022									

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0019 (J)	
9/6/2016			
9/7/2016	0.0006 (J)		
12/6/2016			
12/7/2016		0.0021 (J)	
12/8/2016	0.0005 (J)		
3/28/2017			
3/29/2017		0.0017 (J)	
3/30/2017	0.0006 (J)		<0.0005
5/11/2017			<0.0005
5/12/2017			
5/15/2017			
6/15/2017			<0.0005
6/16/2017			
7/11/2017			<0.0005
7/12/2017	0.0005 (J)	0.0018 (J)	
8/8/2017			
10/24/2017			<0.0005
10/25/2017	0.0005 (J)	0.0019 (J)	
11/15/2017			
2/27/2018			<0.0005
2/28/2018	<0.0005	<0.0005	
3/8/2018			
7/10/2018			
7/11/2018	0.00058 (J)	0.002 (J)	<0.0005
7/12/2018			
11/6/2018			<0.0005
11/7/2018	<0.0005	<0.003 (J)	
8/27/2019	0.00066 (J)		<0.0005
8/28/2019		0.0018 (J)	
9/17/2019			
10/15/2019			
10/16/2019		0.0017 (J)	
10/17/2019			<0.0005
10/18/2019	0.00071 (J)		
3/2/2020			
3/3/2020		0.0021 (J)	<0.0005
3/4/2020	0.00062 (J)		
3/9/2020			
8/11/2020		0.002 (J)	<0.0005
8/12/2020			
8/13/2020			
8/14/2020	0.00064 (J)		
9/22/2020		0.002 (J)	
9/23/2020			<0.0005
9/24/2020	0.0006 (J)		
3/1/2021			
3/2/2021		0.0019	<0.0005
3/3/2021	0.00056		
3/4/2021			
3/12/2021			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/8/2021			
9/9/2021		0.0022	<0.0005
9/10/2021			
9/13/2021	0.00052		
1/18/2022			
1/20/2022			<0.0005
1/24/2022	0.00059		
1/25/2022		0.0019	
1/26/2022			
1/28/2022			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	0.00058	0.0018	
9/15/2022			
9/20/2022			<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									0.0054
9/1/2016							0.0165	0.008	
9/2/2016	0.0026 (J)	0.0001 (J)	0.0002 (J)						
9/7/2016						0.0021 (J)			
12/6/2016									0.0064
12/7/2016	0.0035								
12/8/2016		0.0001 (J)	0.0001 (J)			0.0023 (J)	0.0116	0.0086	
3/28/2017					0.0002 (J)				0.0049
3/29/2017	0.0026 (J)		0.0002 (J)						
3/30/2017		0.0002 (J)		0.0004 (J)				0.0106	
3/31/2017						0.0025 (J)	0.0112		
5/12/2017				0.0004 (J)	0.0002 (J)				
6/15/2017				0.0004 (J)	0.0001 (J)				
7/11/2017					0.0001 (J)				0.005
7/12/2017	0.0025 (J)	0.0001 (J)		0.0004 (J)					
7/13/2017			0.0002 (J)			0.0025 (J)	0.0098	0.0106	
10/24/2017					0.0002 (J)				
10/25/2017	0.0027 (J)	0.0002 (J)	0.0002 (J)			0.0026 (J)			0.0069
10/26/2017				0.0004 (J)			0.0119	0.0078	
2/27/2018					<0.0005				0.0086
2/28/2018	<0.0005	<0.0005	<0.0005			<0.0005			
3/1/2018				<0.0005			0.0146		
3/2/2018								0.0096	
7/11/2018	0.0026 (J)	0.00016 (J)				0.0029 (J)			
7/12/2018			0.00018 (J)	0.00035 (J)			0.013	0.0086	
11/6/2018					<0.003 (J)				0.01
11/7/2018	<0.003 (J)	<0.003 (J)	<0.003 (J)			0.0031	0.014	0.0078	
11/8/2018				<0.003 (J)					
8/27/2019					0.00024 (J)				0.01
8/28/2019						0.0023 (J)			
8/29/2019	0.005	0.00018 (J)	0.00015 (J)	0.00041 (J)			0.011	0.0081	
10/15/2019					0.00022 (J)				
10/16/2019									0.0072
10/17/2019	0.0041	0.00015 (J)				0.0027 (J)	0.0093		
10/18/2019			0.00014 (J)	0.00038 (J)				0.0099	
3/2/2020					0.00025 (J)				0.0098
3/3/2020		0.00019 (J)	0.00017 (J)						
3/4/2020	0.0089			0.00077 (J)		0.0029 (J)	0.01	0.008	
8/11/2020									
8/12/2020					0.00024 (J)		0.0068		0.0081
8/13/2020	0.0063			0.00041 (J)		0.0026 (J)		0.0071	
8/14/2020		0.0002 (J)	0.00016 (J)						
9/22/2020	0.0027 (J)				0.00019 (J)	0.0013 (J)			0.0081
9/23/2020							0.0069	0.0072	
9/24/2020		0.00018 (J)	0.00017 (J)	0.00045 (J)					
3/1/2021					0.00027 (J)				
3/2/2021	0.0057								0.0063
3/3/2021		0.00017 (J)	0.00013 (J)	0.0005		0.0023	0.0081	0.0068	
9/9/2021		0.00018 (J)		0.0005 (J)					
9/10/2021	0.0024		0.00014 (J)		0.00028 (J)		0.009	0.007	0.0075
9/13/2021						0.0024			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
1/20/2022		0.00019 (J)	0.00014 (J)	0.00046 (J)		0.002			
1/21/2022	0.007						0.01		
1/24/2022					0.00033 (J)			0.0069	0.0084
1/25/2022									
1/26/2022									
9/13/2022						0.0028	0.0094	0.0071	
9/14/2022									0.01
9/15/2022	0.0056	0.00018 (J)							
9/16/2022			0.00023 (J)						
9/19/2022					0.00034 (J)				
9/20/2022				0.00037 (J)					

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	0.0018 (J)	0.0045
8/31/2016		
9/1/2016		
9/2/2016		
9/7/2016		
12/6/2016	0.0034	0.005
12/7/2016		
12/8/2016		
3/28/2017		0.0052
3/29/2017	0.0031	
3/30/2017		
3/31/2017		
5/12/2017		
6/15/2017		
7/11/2017	0.0022 (J)	0.0048
7/12/2017		
7/13/2017		
10/24/2017	0.0042	0.0051
10/25/2017		
10/26/2017		
2/27/2018	0.0047	0.0057
2/28/2018		
3/1/2018		
3/2/2018		
7/11/2018		0.0058
7/12/2018		
11/6/2018	<0.003 (J)	0.006
11/7/2018		
11/8/2018		
8/27/2019		0.007
8/28/2019	0.0021 (J)	
8/29/2019		
10/15/2019		
10/16/2019	0.0019 (J)	
10/17/2019		0.0063
10/18/2019		
3/2/2020		
3/3/2020	0.0018 (J)	0.0048
3/4/2020		
8/11/2020		0.0062
8/12/2020	0.0018 (J)	
8/13/2020		
8/14/2020		
9/22/2020		0.0049
9/23/2020	0.0015 (J)	
9/24/2020		
3/1/2021		
3/2/2021	0.0012	0.005
3/3/2021		
9/9/2021		
9/10/2021		0.0049
9/13/2021	0.0015	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	0.0012	
1/26/2022		0.0054
9/13/2022		
9/14/2022		
9/15/2022	0.00088	
9/16/2022		
9/19/2022		0.0047
9/20/2022		

Time Series

Constituent: Boron (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
9/25/2020	0.27								
12/9/2020				0.26 (J)		11.7	6.7		0.34 (J)
12/17/2020			2.4		1.4				
1/11/2021			2.7						
1/12/2021		1.7		0.28					0.26
1/13/2021								0.46	
3/4/2021			2.5	0.26	1.4	12	6.4		
3/5/2021		1.9							0.44
3/8/2021	0.24							0.55	
4/14/2021									
4/15/2021									
9/10/2021			2.5					0.41	
9/13/2021	0.24	1.6			1.3	10.7			
9/14/2021				0.23			6.8		0.32
1/20/2022								0.6	
1/21/2022	0.24								
1/24/2022				0.24		12.3	6.8		0.49
1/25/2022					1.2				
1/26/2022		1.4							
1/27/2022			2.7						
6/6/2022									
9/8/2022	0.24								
9/13/2022				0.26					
9/14/2022						11.2			0.24
9/15/2022			2.3				7.1		
9/16/2022		1.4			1				
9/19/2022									
9/20/2022								0.61	

Time Series

Constituent: Boron (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	0.69		
4/15/2021		1.9	
9/10/2021			
9/13/2021			
9/14/2021	0.61	1.7	
1/20/2022	0.55	1.9	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			0.2
9/8/2022			
9/13/2022			
9/14/2022	0.58		
9/15/2022			
9/16/2022			
9/19/2022		1.7	
9/20/2022			

Time Series

Constituent: Boron (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
10/6/2016		0.053 (J)							
11/22/2016				1.1					
1/28/2019			0.44						
1/30/2019		0.14		2					
9/11/2019		0.068	0.26						
9/12/2019				2					
9/18/2019					0.3				
9/23/2019						1.4			
10/21/2019		0.058		1.9		1.2	0.28		
10/22/2019			0.22						
10/24/2019					0.31				
11/22/2019								3.6	
12/18/2019									3.9
12/19/2019									
9/24/2020		0.074 (J)			0.27				
9/25/2020							0.35	1.8	
9/28/2020	1.4					1.1			
3/3/2021	1.4								
3/4/2021					0.35		0.33		
3/5/2021								3.5	
3/9/2021									2.9
3/12/2021		0.092 (J)							
9/9/2021		0.068							
9/13/2021	1.5							2	
9/14/2021			0.35	2.1	0.29	0.78			
9/15/2021									2.3
9/16/2021							0.3		
1/20/2022		0.077	0.21		0.28				
1/21/2022							0.32		
1/25/2022				2.3		0.7			
1/26/2022									2.7
1/27/2022	1.6							2.7	
9/8/2022		0.064							
9/12/2022									2.9
9/13/2022					0.33		0.33		
9/14/2022			0.38						
9/16/2022	1.6			2.2		0.61		2.1	

Time Series

Constituent: Boron (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98
10/6/2016			
11/22/2016			
1/28/2019			
1/30/2019			
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/21/2019			
10/22/2019			
10/24/2019			
11/22/2019			
12/18/2019			
12/19/2019	3.3		
9/24/2020			
9/25/2020			
9/28/2020	3		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	3.4		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	3.1	3.3	2.6
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	3.6	3.7	0.12
1/27/2022			
9/8/2022			
9/12/2022	3.6		
9/13/2022		3.7	0.62
9/14/2022			
9/16/2022			

Time Series

Constituent: Boron (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				3.5	0.914			0.0419 (J)	
9/1/2016						7.64			
9/6/2016							1		1.25
9/7/2016									
12/6/2016				3.3	1.15			0.0804	
12/7/2016						8.07	0.9		1.56
12/8/2016									
3/28/2017	0.0612	0.0067 (J)	0.0097 (J)						
3/29/2017				4.3	1.07	8.46		0.103	
3/30/2017							0.898		1.5
5/11/2017	0.0805								
5/12/2017			0.0082 (J)						
5/15/2017		0.0073 (J)							
6/15/2017	0.0725	<0.04							
6/16/2017			0.0085 (J)						
7/11/2017		<0.04	0.0077 (J)						
7/12/2017	0.0735			3.38	1.14	7.55	0.996	0.044	1.49
8/8/2017		<0.04							
10/24/2017	0.077	0.0082 (J)	0.0083 (J)	3.45	1.18				
10/25/2017						9.97		0.0565	1.47
11/15/2017							0.795		
2/27/2018		0.0062 (J)	0.0069 (J)	3.23	1.17	8.03		0.0539	
2/28/2018							0.106		1.58
3/8/2018	0.13 (J)								
7/11/2018						10.2		0.057	1.4
7/12/2018	0.076								
11/6/2018		<0.04 (J)	<0.04 (J)	2.1	1.2				
11/7/2018	0.073					7.7	0.76	0.055	0.8
3/12/2019		0.0073 (J)	0.0068 (J)	0.98	1.2	4.8			
3/13/2019	0.08						0.62	0.047	
3/14/2019									1.6
9/17/2019						6.9			
10/15/2019		<0.04	0.0054 (J)	1.6	1.2	5.9			
10/16/2019	0.059						0.65	0.052	
10/17/2019									1.5
10/18/2019									
3/2/2020		0.0055 (J)	0.01 (J)		1.6	3.3			
3/3/2020				1.5			0.61	0.15	1.7
3/4/2020									
3/9/2020	0.08 (J)								
9/22/2020	0.056 (J)	<0.04	<0.04		1.3	4.2		0.086 (J)	
9/23/2020							0.57		1.6
9/24/2020				0.45					
3/1/2021		<0.04	0.0054 (J)						
3/2/2021					1.3		0.58	0.089	1.4
3/3/2021						3.6			
3/4/2021				0.65					
3/12/2021	0.064								
9/8/2021			<0.04						
9/9/2021	0.065	<0.04			1.5	2	0.62	0.08	1.6
9/10/2021				0.24					
9/13/2021									

Time Series

Constituent: Boron (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
1/18/2022		0.024 (J)	0.015 (J)						
1/20/2022									
1/24/2022									1.4
1/25/2022					1.7	0.7	0.69	0.097	
1/26/2022				0.4					
1/28/2022	0.062								
9/7/2022		<0.04	<0.04						
9/8/2022	0.054								
9/13/2022								0.091	1.5
9/14/2022									
9/15/2022				0.42	1.7	3.3	0.69		
9/20/2022									

Time Series

Constituent: Boron (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		3.08	
9/6/2016			
9/7/2016	0.683		
12/6/2016			
12/7/2016		3.34	
12/8/2016	0.688		
3/28/2017			
3/29/2017		3.96	
3/30/2017	0.743		1.56
5/11/2017			1.65
5/12/2017			
5/15/2017			
6/15/2017			1.44
6/16/2017			
7/11/2017			1.39
7/12/2017	0.62	2.82	
8/8/2017			
10/24/2017			1.18
10/25/2017	0.739	3.19	
11/15/2017			
2/27/2018			1.12
2/28/2018	0.627	2.91	
3/8/2018			
7/11/2018	0.79	3.7	0.82
7/12/2018			
11/6/2018			0.9
11/7/2018	1.6	2.6	
3/12/2019			0.72
3/13/2019	0.76	2.6	
3/14/2019			
9/17/2019			
10/15/2019			
10/16/2019		2.2	
10/17/2019			0.73
10/18/2019	0.82		
3/2/2020			
3/3/2020		3.1	0.68
3/4/2020	0.85		
3/9/2020			
9/22/2020		2.6	
9/23/2020			0.57
9/24/2020	0.88		
3/1/2021			
3/2/2021		2.3	0.52
3/3/2021	0.71		
3/4/2021			
3/12/2021			
9/8/2021			
9/9/2021		2.7	0.51
9/10/2021			
9/13/2021	0.78		

Time Series

Constituent: Boron (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
1/18/2022			
1/20/2022			0.5
1/24/2022	0.9		
1/25/2022		2.5	
1/26/2022			
1/28/2022			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	0.87	2.4	
9/15/2022			
9/20/2022			0.42

Time Series

Constituent: Boron (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									7.5
9/1/2016							0.345	0.955	
9/2/2016	6.77	4.81	3.99						
9/7/2016						0.924			
12/6/2016									5.64
12/7/2016	6.04								
12/8/2016		3.57	3.1			0.957	0.352	0.919	
3/28/2017					4.01				6.16
3/29/2017	8.23		4.85						
3/30/2017		5.68		4.68				0.925	
3/31/2017						0.989	0.312		
5/12/2017				4.03	3.58				
6/15/2017				4.11	3.58				
7/11/2017					3.85				4.61
7/12/2017	6.81	5.2		3.74					
7/13/2017			3.85			1.03	0.28	0.972	
10/24/2017					3.82				
10/25/2017	8.94	7.92	3.9			0.982			4
10/26/2017				4.07			0.269	0.746	
2/27/2018					4.06				4.29
2/28/2018	6.26	5.89	5.14			0.918			
3/1/2018				4.37			0.296		
3/2/2018								0.878	
7/11/2018	5.7	8.3				0.83			
7/12/2018			3.6	4			0.26	0.82	
11/6/2018					4.1				4.2
11/7/2018	5	4.9	3.3			0.89	0.3	0.74	
11/8/2018				4.7					
3/12/2019					4.6				4.3
3/13/2019	5.6	6.2							
3/14/2019			4.1	4.7		0.89	0.26	0.72	
10/15/2019					5				
10/16/2019									4.3
10/17/2019	5	7				0.94	0.25		
10/18/2019			4.2	4.5				0.74	
3/2/2020					5.9				5.5
3/3/2020		6.8	4.6						
3/4/2020	3.6			4.8		1	0.24	0.77	
9/22/2020	4.9				4.3	0.88			4.6
9/23/2020							0.21	0.65	
9/24/2020		6.1	4.1	4.6					
3/1/2021					4.7				
3/2/2021	3.4								4.3
3/3/2021		5.3	3.9	4		0.87	0.17	0.57	
9/9/2021		5.8		4.7					
9/10/2021	4.8		4.5		5		0.16	0.55	4.7
9/13/2021						0.95			
1/20/2022		6.9	4.2	4.5		0.83			
1/21/2022	3.6						0.17		
1/24/2022					5.1			0.61	4.4
1/25/2022									

Time Series

Constituent: Boron (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
1/26/2022									
9/13/2022						1.1	0.18	0.61	
9/14/2022									5
9/15/2022	4.2	6.7							
9/16/2022			4.2						
9/19/2022					4.8				
9/20/2022				4.6					

Time Series

Constituent: Boron (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	2.63	1.72
8/31/2016		
9/1/2016		
9/2/2016		
9/7/2016		
12/6/2016	2.72	1.92
12/7/2016		
12/8/2016		
3/28/2017		2.01
3/29/2017	3.04	
3/30/2017		
3/31/2017		
5/12/2017		
6/15/2017		
7/11/2017	2.55	1.78
7/12/2017		
7/13/2017		
10/24/2017	2.29	1.72
10/25/2017		
10/26/2017		
2/27/2018	2.07	1.68
2/28/2018		
3/1/2018		
3/2/2018		
7/11/2018		1.4
7/12/2018		
11/6/2018	1.7	1.4
11/7/2018		
11/8/2018		
3/12/2019	1.5	1.2
3/13/2019		
3/14/2019		
10/15/2019		
10/16/2019	1.2	
10/17/2019		1.2
10/18/2019		
3/2/2020		
3/3/2020	1.5	1.1
3/4/2020		
9/22/2020		0.78
9/23/2020	1	
9/24/2020		
3/1/2021		
3/2/2021	0.96	0.77
3/3/2021		
9/9/2021		
9/10/2021		0.54
9/13/2021	0.86	
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	0.98	

Time Series

Constituent: Boron (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
1/26/2022		0.69
9/13/2022		
9/14/2022		
9/15/2022	0.83	
9/16/2022		
9/19/2022		0.8
9/20/2022		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	0.00059 (J)								
9/25/2020	0.00027 (J)								
12/9/2020				<0.0005		<0.0005	<0.0005		<0.0005
12/17/2020			0.00067 (J)		0.0002 (J)				
1/11/2021			0.0008 (J)						
1/12/2021		<0.0005		<0.0005					<0.0005
1/13/2021								<0.0005	
3/4/2021			0.00081	<0.0005	0.00021 (J)	<0.0005	<0.0005		
3/5/2021		<0.0005							<0.0005
3/8/2021	0.00027 (J)							<0.0005	
4/14/2021									
4/15/2021									
9/10/2021			0.00083					<0.0005	
9/13/2021	0.00029 (J)	<0.0005			0.00024 (J)	<0.0005			
9/14/2021				<0.0005			<0.0005		<0.0005
1/20/2022								<0.0005	
1/21/2022	0.00059								
1/24/2022				<0.0005		<0.0005	<0.0005		<0.0005
1/25/2022					0.00012 (J)				
1/26/2022		0.00011 (J)							
1/27/2022			0.00091						
6/6/2022									
9/8/2022	0.00027 (J)								
9/13/2022				<0.0005					
9/14/2022						<0.0005			<0.0005
9/15/2022			0.00091				<0.0005		
9/16/2022		<0.0005			<0.0005				
9/19/2022									
9/20/2022								<0.0005	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	0.00041 (J)		
4/15/2021		0.001	
9/10/2021			
9/13/2021			
9/14/2021	0.00035 (J)	0.0011	
1/20/2022	0.00029 (J)	0.00098	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			<0.0005
9/8/2022			
9/13/2022			
9/14/2022	0.00018 (J)		
9/15/2022			
9/16/2022			
9/19/2022		0.0012	
9/20/2022			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			<0.0005						
1/30/2019		<0.0005		<0.0005					
9/11/2019		<0.0005	<0.0005						
9/12/2019				<0.0005					
9/18/2019					<0.0005				
9/23/2019						0.00044 (J)			
10/21/2019		<0.0005		<0.0005		0.00035 (J)	0.00041 (J)		
10/22/2019			0.00014 (J)						
10/24/2019					<0.0005				
8/13/2020		<0.0005			<0.0005				
8/14/2020							0.00037 (J)		
8/17/2020	0.00029 (J)					0.00058 (J)		0.0018 (J)	
8/19/2020									
9/24/2020		<0.0005			<0.0005				
9/25/2020							0.00026 (J)	0.00022 (J)	
9/28/2020	0.00024 (J)					0.00066 (J)			
3/3/2021	0.00026 (J)								
3/4/2021					<0.0005		0.00032 (J)		
3/5/2021								0.0065	
3/9/2021									
3/12/2021		<0.0005							
9/9/2021		<0.0005							
9/13/2021	0.00028 (J)							0.0013	
9/14/2021			0.00025 (J)	<0.0005	<0.0005	0.0007			
9/15/2021									0.00096
9/16/2021							0.0003 (J)		
1/20/2022		<0.0005	<0.0005		<0.0005				
1/21/2022							0.0003 (J)		
1/25/2022				<0.0005		0.00072			
1/26/2022									0.001
1/27/2022	0.00025 (J)							0.0036	
9/8/2022		<0.0005							
9/12/2022									0.0014
9/13/2022					<0.0005		0.00031 (J)		
9/14/2022			0.00018 (J)						
9/16/2022	0.0003 (J)			<0.0005		0.00073		0.0019	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98
1/28/2019			
1/30/2019			
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/21/2019			
10/22/2019			
10/24/2019			
8/13/2020			
8/14/2020			
8/17/2020			
8/19/2020	0.00077 (J)		
9/24/2020			
9/25/2020			
9/28/2020	0.00074 (J)		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	0.00075 (J)		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	0.00088	0.00056	0.0003 (J)
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.00079	0.00055	<0.0005
1/27/2022			
9/8/2022			
9/12/2022	0.00084		
9/13/2022		0.00055	0.00031 (J)
9/14/2022			
9/16/2022			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				0.0012	<0.0005			<0.0005	
9/1/2016						0.0004 (J)			
9/6/2016							<0.0005		<0.0005
9/7/2016									
12/6/2016				0.0013	<0.0005			<0.0005	
12/7/2016						0.0003 (J)	0.0002 (J)		9E-05 (J)
12/8/2016									
3/28/2017	<0.0005	<0.0005	<0.0005						
3/29/2017				0.0013	<0.0005	0.0003 (J)		<0.0005	
3/30/2017							8E-05 (J)		9E-05 (J)
5/11/2017	8E-05 (J)								
5/12/2017			<0.0005						
5/15/2017		<0.0005							
6/15/2017	<0.0005	<0.0005							
6/16/2017			<0.0005						
7/11/2017		<0.0005	<0.0005						
7/12/2017	<0.0005			0.0013	<0.0005	0.0004 (J)	<0.0005	<0.0005	<0.0005
8/8/2017		<0.0005							
10/24/2017	<0.0005	<0.0005	<0.0005	0.0014	<0.0005				
10/25/2017						0.0004 (J)		<0.0005	<0.0005
11/15/2017							<0.0005		
2/27/2018		<0.0005	<0.0005	0.001	<0.0005	<0.0005		<0.0005	
2/28/2018							<0.0005		<0.0005
3/8/2018	<0.0005								
7/11/2018						0.00033 (J)		<0.0005	<0.0005
7/12/2018	0.00013 (J)								
11/6/2018		<0.0005	<0.0005	0.0012	<0.0005				
11/7/2018	<0.0005					<0.001 (J)	<0.0005	<0.0005	<0.001 (J)
8/27/2019		<0.0005	<0.0005	0.00077 (J)	0.00012 (J)	0.00037 (J)		<0.0005	
8/28/2019	<0.0005						<0.0005		<0.0005
9/17/2019						0.00035 (J)			
10/15/2019		<0.0005	<0.0005	0.00095 (J)	<0.0005	0.00025 (J)			
10/16/2019	<0.0005						<0.0005	<0.0005	
10/17/2019									<0.0005
10/18/2019									
3/2/2020		0.00041 (J)	<0.0005		<0.0005	<0.0005			
3/3/2020				0.00095 (J)			<0.0005	<0.0005	0.00012 (J)
3/4/2020									
3/9/2020	<0.0005								
8/11/2020		<0.0005	<0.0005	0.00071 (J)	<0.0005	0.00038 (J)		<0.0005	
8/12/2020							<0.0005		
8/13/2020	<0.0005								0.00013 (J)
8/14/2020									
9/22/2020	<0.0005	<0.0005	<0.0005		0.00016 (J)	0.00017 (J)		<0.0005	
9/23/2020							<0.0005		<0.0005
9/24/2020				0.00055 (J)					
3/1/2021		<0.0005	<0.0005						
3/2/2021					0.00013 (J)		<0.0005	<0.0005	<0.0005
3/3/2021						0.00016 (J)			
3/4/2021				0.00088					
3/12/2021	<0.0005								
9/8/2021			<0.0005						

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
9/9/2021	<0.0005	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/10/2021				0.00061					
9/13/2021									
1/18/2022		<0.0005	<0.0005						
1/20/2022									
1/24/2022									<0.0005
1/25/2022					0.00016 (J)	<0.0005	<0.0005	<0.0005	
1/26/2022				0.0007					
1/28/2022	<0.0005								
9/7/2022		<0.0005	<0.0005						
9/8/2022	<0.0005								
9/13/2022								<0.0005	<0.0005
9/14/2022									
9/15/2022				0.00047 (J)	<0.0005	0.00017 (J)	<0.0005		
9/20/2022									

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0004 (J)	
9/6/2016			
9/7/2016	0.0003 (J)		
12/6/2016			
12/7/2016		0.0004 (J)	
12/8/2016	0.0003 (J)		
3/28/2017			
3/29/2017		0.0004 (J)	
3/30/2017	0.0003 (J)		0.0005 (J)
5/11/2017			0.0004 (J)
5/12/2017			
5/15/2017			
6/15/2017			0.0003 (J)
6/16/2017			
7/11/2017			0.0003 (J)
7/12/2017	0.0002 (J)	0.0004 (J)	
8/8/2017			
10/24/2017			0.0003 (J)
10/25/2017	0.0002 (J)	0.0004 (J)	
11/15/2017			
2/27/2018			<0.0005
2/28/2018	<0.0005	<0.0005	
3/8/2018			
7/11/2018	0.00029 (J)	0.00039 (J)	0.00018 (J)
7/12/2018			
11/6/2018			<0.001 (J)
11/7/2018	<0.0005	<0.001 (J)	
8/27/2019	0.00033 (J)		0.00012 (J)
8/28/2019		0.00033 (J)	
9/17/2019			
10/15/2019			
10/16/2019		0.00034 (J)	
10/17/2019			0.00013 (J)
10/18/2019	0.00029 (J)		
3/2/2020			
3/3/2020		0.00037 (J)	0.00014 (J)
3/4/2020	0.00028 (J)		
3/9/2020			
8/11/2020		0.0003 (J)	<0.0005
8/12/2020			
8/13/2020			
8/14/2020	0.00029 (J)		
9/22/2020		0.00036 (J)	
9/23/2020			0.00013 (J)
9/24/2020	0.00024 (J)		
3/1/2021			
3/2/2021		0.00035 (J)	<0.0005
3/3/2021	0.00023 (J)		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.00037 (J)	<0.0005
9/10/2021			
9/13/2021	0.00023 (J)		
1/18/2022			
1/20/2022			<0.0005
1/24/2022	0.00027 (J)		
1/25/2022		0.00041 (J)	
1/26/2022			
1/28/2022			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	0.00024 (J)	0.00032 (J)	
9/15/2022			
9/20/2022			<0.0005

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									0.0002 (J)
9/1/2016							0.0017	0.0013	
9/2/2016	0.0023	0.0006 (J)	0.0003 (J)						
9/7/2016						0.0007 (J)			
12/6/2016									0.0004 (J)
12/7/2016	0.0023								
12/8/2016		0.0006 (J)	0.0004 (J)			0.0003 (J)	0.0002 (J)	0.0042	
3/28/2017					0.0006 (J)				0.0002 (J)
3/29/2017	0.0021		0.0004 (J)						
3/30/2017		0.0008 (J)		0.0002 (J)				0.0089	
3/31/2017						0.0009 (J)	0.002		
5/12/2017				0.0003 (J)	0.0006 (J)				
6/15/2017				0.0002 (J)	0.0005 (J)				
7/11/2017					0.0006 (J)				0.0003 (J)
7/12/2017	0.0021	0.0006 (J)		0.0002 (J)					
7/13/2017			0.0005 (J)			0.0008 (J)	0.0017	0.0033	
10/24/2017					0.0007 (J)				
10/25/2017	0.002	0.0005 (J)	0.0007 (J)			0.0005 (J)			0.0006 (J)
10/26/2017				0.0003 (J)			0.0015	0.0032	
2/27/2018					<0.0005				<0.0005
2/28/2018	0.0018	<0.0005	<0.0005			<0.0005			
3/1/2018				<0.0005			0.0025		
3/2/2018								0.0049	
7/11/2018	0.0018	0.00054 (J)				0.0024			
7/12/2018			0.00091 (J)	0.00028 (J)			0.0021	0.0032	
11/6/2018					<0.001 (J)				<0.001 (J)
11/7/2018	0.0018	<0.001 (J)	<0.001 (J)			<0.001 (J)	0.0016	0.0031	
11/8/2018				<0.001 (J)					
8/27/2019					0.00072 (J)				0.00082 (J)
8/28/2019						0.0015 (J)			
8/29/2019	0.002 (J)	0.00087 (J)	0.00053 (J)	0.00022 (J)			0.0021 (J)	0.003	
10/15/2019					0.00077 (J)				
10/16/2019									0.00069 (J)
10/17/2019	0.0017 (J)	0.0006 (J)				0.00058 (J)	0.0033		
10/18/2019			0.00056 (J)	0.00022 (J)				0.0028	
3/2/2020					0.00088 (J)				0.00089 (J)
3/3/2020		0.00063 (J)	0.00061 (J)						
3/4/2020	0.0026			0.00024 (J)		0.00037 (J)	0.0017 (J)	0.0036	
8/11/2020									
8/12/2020					0.0008 (J)		0.001 (J)		0.00079 (J)
8/13/2020	0.0021 (J)			0.00027 (J)		0.0013 (J)		0.0028	
8/14/2020		0.00054 (J)	0.00057 (J)						
9/22/2020	0.0014 (J)				0.00065 (J)	0.0007 (J)			0.00072 (J)
9/23/2020							0.0013 (J)	0.0025	
9/24/2020		0.00073 (J)	0.00058 (J)	0.00018 (J)					
3/1/2021					0.00085				
3/2/2021	0.0025								0.00075
3/3/2021		0.00044 (J)	0.0005	0.00015 (J)		0.00038 (J)	0.0016	0.0033	
9/9/2021		0.00012 (J)		0.00019 (J)					
9/10/2021	0.0012		0.00061		0.0009		0.0014	0.0028	0.00093
9/13/2021						0.00042 (J)			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
1/20/2022		<0.0005	0.00052	0.00012 (J)		0.00038 (J)			
1/21/2022	0.0028						0.0019		
1/24/2022					0.00098			0.0029	0.00094
1/25/2022									
1/26/2022									
9/13/2022						0.00069	0.0011	0.0026	
9/14/2022									0.00087
9/15/2022	0.0021	0.00029 (J)							
9/16/2022			0.00065						
9/19/2022					0.00091				
9/20/2022				0.00017 (J)					

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	0.0019	0.0004 (J)
8/31/2016		
9/1/2016		
9/2/2016		
9/7/2016		
12/6/2016	0.0025	0.0005 (J)
12/7/2016		
12/8/2016		
3/28/2017		0.0005 (J)
3/29/2017	0.0024	
3/30/2017		
3/31/2017		
5/12/2017		
6/15/2017		
7/11/2017	0.0021	0.0005 (J)
7/12/2017		
7/13/2017		
10/24/2017	0.0029	0.0006 (J)
10/25/2017		
10/26/2017		
2/27/2018	0.0029	<0.0005
2/28/2018		
3/1/2018		
3/2/2018		
7/11/2018		0.00067 (J)
7/12/2018		
11/6/2018	0.0027	<0.001 (J)
11/7/2018		
11/8/2018		
8/27/2019		0.00071 (J)
8/28/2019	0.0022 (J)	
8/29/2019		
10/15/2019		
10/16/2019	0.0022 (J)	
10/17/2019		0.00064 (J)
10/18/2019		
3/2/2020		
3/3/2020	0.002 (J)	0.00059 (J)
3/4/2020		
8/11/2020		0.00059 (J)
8/12/2020	0.0021 (J)	
8/13/2020		
8/14/2020		
9/22/2020		0.00059 (J)
9/23/2020	0.0018 (J)	
9/24/2020		
3/1/2021		
3/2/2021	0.0017	0.00057
3/3/2021		
9/9/2021		
9/10/2021		0.00053
9/13/2021	0.002	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	0.0016	
1/26/2022		0.00059
9/13/2022		
9/14/2022		
9/15/2022	0.0011	
9/16/2022		
9/19/2022		0.00076
9/20/2022		

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
9/25/2020	44.7								
12/9/2020				154		85.4	90.5		105
12/17/2020			71.5		43.2				
1/11/2021			73						
1/12/2021		56.3		156					103
1/13/2021								40.3	
3/4/2021			79.7	150	42.1	83.9	86.6		
3/5/2021		68.9							110
3/8/2021	47.7							40.2	
4/14/2021									
4/15/2021									
9/10/2021			84.7					42.1	
9/13/2021	51.5	53.6			42.1	83.6			
9/14/2021				151			83.3		98.4
1/20/2022								40	
1/21/2022	49.9								
1/24/2022				163		89.9	88.2		107
1/25/2022					40				
1/26/2022		49.7							
1/27/2022			86.9						
6/6/2022									
9/8/2022	46								
9/13/2022				153					
9/14/2022						82.6			90.7
9/15/2022			70.3				85.1		
9/16/2022		57			35.3				
9/19/2022									
9/20/2022								40.5	

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	52		
4/15/2021		171	
9/10/2021			
9/13/2021			
9/14/2021	63	162	
1/20/2022	83.6	158	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			48.3
9/8/2022			
9/13/2022			
9/14/2022	65.5		
9/15/2022			
9/16/2022			
9/19/2022		142	
9/20/2022			

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			<25						
1/30/2019		51.4		62.4					
10/21/2019		31.2		85.5		27	35.1		
10/22/2019			20.7						
10/24/2019					15.6				
11/22/2019								156	
12/18/2019									139
12/19/2019									
2/17/2020									
9/24/2020		28.8			17.9				
9/25/2020							39.8	79.8	
9/28/2020	15.1					26.5			
3/3/2021	18.5								
3/4/2021					14.8		39.1		
3/5/2021								128	
3/9/2021									
3/12/2021		28.8							
9/9/2021		29.2							
9/13/2021	15.2							80.5	
9/14/2021			22.7	60.9	17	33.4			
9/15/2021									110
9/16/2021							39.4		
1/20/2022		36.3	22.9		18.6				
1/21/2022							40.8		
1/25/2022				54.9		36.4			
1/26/2022									96
1/27/2022	19.8							105	
9/8/2022		31.4							
9/12/2022									104
9/13/2022					15.7		36.2		
9/14/2022			26.3						
9/16/2022	18.4			63.9		34.3		97.6	

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98
1/28/2019			
1/30/2019			
10/21/2019			
10/22/2019			
10/24/2019			
11/22/2019			
12/18/2019			
12/19/2019	168		
2/17/2020		190	85.9
9/24/2020			
9/25/2020			
9/28/2020	110		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	127		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	129	178	105
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	141	198	31.9
1/27/2022			
9/8/2022			
9/12/2022	133		
9/13/2022		201	63.3
9/14/2022			
9/16/2022			

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				81.7	44.2			9.95	
9/1/2016						80.6			
9/6/2016							44		33.6
9/7/2016									
12/6/2016				74.2	48.3			10.4	
12/7/2016						82.1	39.8		34.7
12/8/2016									
3/28/2017	30.8	5.14	8.31						
3/29/2017				79.5	50.5	88.3		14.4	
3/30/2017							46.3		36.9
5/11/2017	35.8								
5/12/2017			8.04						
5/15/2017		6.5							
6/15/2017	36	5.38							
6/16/2017			7.66						
7/11/2017		5.96	7.71						
7/12/2017	40.3			86.3	50.8	87	47.8	10.5	38.4
8/8/2017		5.2							
10/24/2017	30.3	4.93	6.86	81.5	55				
10/25/2017						92.1		9.67	36.2
11/15/2017							49.3		
2/27/2018		<25	<25	96.2	51.4	85.6		<25	
2/28/2018							<25		35
3/8/2018	39.8								
7/11/2018						93.6		9.9	37.5
7/12/2018	34.7								
11/6/2018		5.5	5.7	94.8	62.6				
11/7/2018	28.6					73.3	44.8	9.7	11.4
3/12/2019		5.1	5.5	83.5	61.4	62.1			
3/13/2019	26.7						42.1	9.7	
3/14/2019									34.7
10/15/2019		5.1	5.1	79.1	61.2	61.4			
10/16/2019	17.7						43.8	9.4	
10/17/2019									37
10/18/2019									
3/2/2020		5.3	5.8		65.8	46.5			
3/3/2020				63.6			49.3	14	37.8
3/4/2020									
3/9/2020	23.7								
9/22/2020	15.5	5	5.4		72.7	55.4		11.6	
9/23/2020							39		35.6
9/24/2020				53.1					
3/1/2021		4.1	5.9						
3/2/2021					65.3		40.5	11.4	36
3/3/2021						50.1			
3/4/2021				75.8					
3/12/2021	18.4								
9/8/2021			6.1						
9/9/2021	18.3	5.3			66.8	29.2	38.2	11.1	34.4
9/10/2021				82.4					
9/13/2021									
1/18/2022		6.1	6.6						

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
1/20/2022									
1/24/2022									33.2
1/25/2022					70.2	28.5	43.2	12.4	
1/26/2022				76.8					
1/28/2022	19.5								
9/7/2022		5.9	6.4						
9/8/2022	17.2								
9/13/2022								11.2	34.4
9/14/2022									
9/15/2022				64.4	66.6	41.5	36.7		
9/20/2022									

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		65.6	
9/6/2016			
9/7/2016	8.61		
12/6/2016			
12/7/2016		68.3	
12/8/2016	7.92		
3/28/2017			
3/29/2017		68	
3/30/2017	9.56		103
5/11/2017			102
5/12/2017			
5/15/2017			
6/15/2017			96.2
6/16/2017			
7/11/2017			98.4
7/12/2017	10.4	70	
8/8/2017			
10/24/2017			86
10/25/2017	10.9	77	
11/15/2017			
2/27/2018			66.7
2/28/2018	<25	72	
3/8/2018			
7/11/2018	13 (J)	82.7	55
7/12/2018			
11/6/2018			54.5
11/7/2018	37	81.7	
3/12/2019			52.2
3/13/2019	11.9 (J)	76.9	
3/14/2019			
10/15/2019			
10/16/2019		85.7	
10/17/2019			47.2
10/18/2019	12.9		
3/2/2020			
3/3/2020		86.8	48.4
3/4/2020	15.8		
3/9/2020			
9/22/2020		103	
9/23/2020			44.4
9/24/2020	12.7		
3/1/2021			
3/2/2021		93.2	44
3/3/2021	14.3		
3/4/2021			
3/12/2021			
9/8/2021			
9/9/2021		93.6	42
9/10/2021			
9/13/2021	15.8		
1/18/2022			

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
1/20/2022			44.6
1/24/2022	15.6		
1/25/2022		101	
1/26/2022			
1/28/2022			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	16.4	105	
9/15/2022			
9/20/2022			37.8

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									82.6
9/1/2016							69.3	95.1	
9/2/2016	96.3	70.2	61.6						
9/7/2016						43.6			
12/6/2016									73.9
12/7/2016	91.9								
12/8/2016		70.1	60.1			45.8	71.1	105	
3/28/2017					229				89.1
3/29/2017	95.7		64.7						
3/30/2017		72.5		68.1				98.6	
3/31/2017						48.3	62.6		
5/12/2017				71.1	233				
6/15/2017				65.9	224				
7/11/2017					249				84.6
7/12/2017	100	80.4		70					
7/13/2017			67.2			52.3	52.5	102	
10/24/2017					232				
10/25/2017	97.3	75.6	66.8			50.9			95.6
10/26/2017				67.2			46.7	94	
2/27/2018					245				108
2/28/2018	86.3	73.2	62.3			45.1			
3/1/2018				66.5			44.2		
3/2/2018								86.6	
7/11/2018	92.4	82.3				47.8			
7/12/2018			71	72			41.6	89.1	
11/6/2018					284				124
11/7/2018	85.9	78.5	60.9			45.5	38.6	88	
11/8/2018				73.5					
3/12/2019					295				110
3/13/2019	86.4	79.9							
3/14/2019			64.8	73.2		43.5	36.6	74.6	
10/15/2019					276				
10/16/2019									109
10/17/2019	86.9	79.8				44.1	36.2		
10/18/2019			61.7	67.7				72.7	
3/2/2020					320				116
3/3/2020		87.4	68.7						
3/4/2020	103			69.8		48.8	36	79.7	
9/22/2020	79.2				263	43.8			99.2
9/23/2020							22.3	72.2	
9/24/2020		80	62.6	73.7					
3/1/2021					322				
3/2/2021	74.7								114
3/3/2021		82.1	62.3	68.1		38.8	25.5	66	
9/9/2021		75.3		76.4					
9/10/2021	69.8		62.3		285		24.4	68.7	123
9/13/2021						38.9			
1/20/2022		83.7	67.3	82.7		38.1			
1/21/2022	104						31		
1/24/2022					299			61.2	112
1/25/2022									

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
1/26/2022									
9/13/2022						34.2	24.8	65.3	
9/14/2022									117
9/15/2022	70.1	82.2							
9/16/2022			66.2						
9/19/2022					376				
9/20/2022				90					

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	82.7	64.9
8/31/2016		
9/1/2016		
9/2/2016		
9/7/2016		
12/6/2016	76.8	59.3
12/7/2016		
12/8/2016		
3/28/2017		71.6
3/29/2017	90.5	
3/30/2017		
3/31/2017		
5/12/2017		
6/15/2017		
7/11/2017	91.1	73.7
7/12/2017		
7/13/2017		
10/24/2017	78.1	92.5
10/25/2017		
10/26/2017		
2/27/2018	64.2	73.1
2/28/2018		
3/1/2018		
3/2/2018		
7/11/2018		88.5
7/12/2018		
11/6/2018	57	81.1
11/7/2018		
11/8/2018		
3/12/2019	54.3	78.1
3/13/2019		
3/14/2019		
10/15/2019		
10/16/2019	47.3	
10/17/2019		75.6
10/18/2019		
3/2/2020		
3/3/2020	46	59.5
3/4/2020		
9/22/2020		54.7
9/23/2020	39.3	
9/24/2020		
3/1/2021		
3/2/2021	35.6	48.8
3/3/2021		
9/9/2021		
9/10/2021		47.7
9/13/2021	36	
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	36.8	

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
1/26/2022		48.4
9/13/2022		
9/14/2022		
9/15/2022	29.3	
9/16/2022		
9/19/2022		45.1
9/20/2022		

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
9/25/2020	13.2								
12/9/2020				7.7		12.5	29.1		12.8
12/17/2020			10.3		8				
1/11/2021			9.8						
1/12/2021		20.6		7.5					15.7
1/13/2021								3.1	
3/4/2021			10.4	7.9	7.8	13	29.4		
3/5/2021		9							39.2
3/8/2021	12.9							3.9	
4/14/2021									
4/15/2021									
9/10/2021			10.2					4.8	
9/13/2021	11.1	8.7			7	11.7			
9/14/2021				7.9			28.8		27.3
1/20/2022								3.7	
1/21/2022	11.3								
1/24/2022				7.8		12.8	32.9		30.6
1/25/2022					7.4				
1/26/2022		9							
1/27/2022			10.4						
6/6/2022									
9/8/2022	10.2								
9/13/2022				8					
9/14/2022						12.9			10.3
9/15/2022			9.9				27.6		
9/16/2022		8.7			6.6				
9/19/2022									
9/20/2022								3.5	

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	7.9		
4/15/2021		6.2	
9/10/2021			
9/13/2021			
9/14/2021	9	6.1	
1/20/2022	15.8	6	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			18.4
9/8/2022			
9/13/2022			
9/14/2022	10.7		
9/15/2022			
9/16/2022			
9/19/2022		5.8	
9/20/2022			

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			7.9						
1/30/2019		7.1		9.3					
10/21/2019		6.5		9.9		14.3	3.4		
10/22/2019			18						
10/24/2019					3.3				
11/22/2019								9.1	
12/18/2019									9.4
12/19/2019									
2/17/2020									
9/24/2020		5.7			5.3				
9/25/2020							3	10	
9/28/2020	8.7					9.9			
3/3/2021	8.3								
3/4/2021					2.9		3.2		
3/5/2021								7.8	
3/9/2021									
3/12/2021		5.9							
9/9/2021		5.8							
9/13/2021	7.1							8.2	
9/14/2021			7.1	8.9	4.7	9.5			
9/15/2021									10.4
9/16/2021							2.6		
1/20/2022		5.6	15		5				
1/21/2022							2.4		
1/25/2022				8.7		9.9			
1/26/2022									9.4
1/27/2022	7.6							8.8	
9/8/2022		5.3							
9/12/2022									10.2
9/13/2022					2.4		2.5		
9/14/2022			6.5						
9/16/2022	6.9			8.4		9.4		8.7	

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98
1/28/2019			
1/30/2019			
10/21/2019			
10/22/2019			
10/24/2019			
11/22/2019			
12/18/2019			
12/19/2019	10.4		
2/17/2020		20.9	96.8
9/24/2020			
9/25/2020			
9/28/2020	10.8		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	13.5		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	13.2	18.8	29.9
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	14.7	19.8	4.9
1/27/2022			
9/8/2022			
9/12/2022	15		
9/13/2022		19.5	4.9
9/14/2022			
9/16/2022			

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				11	11			3.1	
9/1/2016						13			
9/6/2016							16		19
9/7/2016									
12/6/2016				10	11			3.1	
12/7/2016						20 (O)	14		20
12/8/2016									
3/28/2017	3.7	3.8	3.6						
3/29/2017				11	12	13		3.8	
3/30/2017							16		21
5/11/2017	2.3								
5/12/2017			3.8						
5/15/2017		2.2							
6/15/2017	2.6	2							
6/16/2017			3.4						
7/11/2017		2.1	3.1						
7/12/2017	2.3			11	11	12	14	2.9	21
8/8/2017		2.2							
10/24/2017	2.7	2.4	3.2	11	12				
10/25/2017						13		3.5	21
11/15/2017	2.2		3.1	12			16		
2/27/2018		2.5	3.2	10.8	12.7	11.7		3.4	
2/28/2018							2.7		20.1
3/8/2018	2.4								
7/11/2018						11.3		3.2	21.4
7/12/2018	2.2								
11/6/2018		2.3	2.6	12.3	15.2				
11/7/2018	2.3					11.8	16.7	3.1	22.4
3/12/2019		2.5	3.3	12.1	14.5	12.1			
3/13/2019	3.6						12.4	3.4	
3/14/2019									24
10/15/2019		2.2	3.3	9.4	15.6	11.6			
10/16/2019	2						17.4	3.5	
10/17/2019									22
10/18/2019									
3/2/2020		1.9	3		15	8.9			
3/3/2020				8.4			9.4	4.1	22.7
3/4/2020									
3/9/2020	1.8								
9/22/2020	1.6	1.9	5.2		16	10.8		3.2	
9/23/2020							12.6		22.4
9/24/2020				5.9					
3/1/2021		1.9	3.9						
3/2/2021					14.4		13.1	3.5	22.8
3/3/2021						10.3			
3/4/2021				7.2					
3/12/2021	2								
9/8/2021			5.9						
9/9/2021	1.8	1.9			13.6	8.5	12.9	3.3	21.9
9/10/2021				8.2					
9/13/2021									
1/18/2022		1.9	5.9						

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
1/20/2022									
1/24/2022									21.5
1/25/2022					14.1	8.1	14.3	3.7	
1/26/2022				9					
1/28/2022	1.8								
9/7/2022		2.1	8.2						
9/8/2022	1.6								
9/13/2022								3.5	21.9
9/14/2022									
9/15/2022				8.2	12.1	8.2	13.7		
9/20/2022									

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		41	
9/6/2016			
9/7/2016	17		
12/6/2016			
12/7/2016		41	
12/8/2016	19		
3/28/2017			
3/29/2017		42	
3/30/2017	20		4.8
5/11/2017			4.4
5/12/2017			
5/15/2017			
6/15/2017			4.8
6/16/2017			
7/11/2017			4.6
7/12/2017	18	41	
8/8/2017			
10/24/2017			4.4
10/25/2017	19	41	
11/15/2017			
2/27/2018			4.1
2/28/2018	17	36.4	
3/8/2018			
7/11/2018	19.5	38.2	3.3
7/12/2018			
11/6/2018			3.7
11/7/2018	21.4	38.8	
3/12/2019			3.1
3/13/2019	19.9	40.1	
3/14/2019			
10/15/2019			
10/16/2019		33.2	
10/17/2019			2.8
10/18/2019	22		
3/2/2020			
3/3/2020		30.9	2.3
3/4/2020	19.6		
3/9/2020			
9/22/2020		27.6	
9/23/2020			2.1
9/24/2020	22.7		
3/1/2021			
3/2/2021		27	2.1
3/3/2021	20.9		
3/4/2021			
3/12/2021			
9/8/2021			
9/9/2021		25.4	2.1
9/10/2021			
9/13/2021	18.2		
1/18/2022			

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
1/20/2022			2
1/24/2022	19.2		
1/25/2022		23.7	
1/26/2022			
1/28/2022			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	19	18.7	
9/15/2022			
9/20/2022			2

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									8.6
9/1/2016							12	18	
9/2/2016	15	25	30						
9/7/2016						33			
12/6/2016									8
12/7/2016	16								
12/8/2016		24	26			32	12	17	
3/28/2017					29				9.5
3/29/2017	17		30						
3/30/2017		24		17				16	
3/31/2017						33	9.1		
5/12/2017				17	29				
6/15/2017				16	28				
7/11/2017					28				9
7/12/2017	18	23		16					
7/13/2017			29			33	5.7	15	
10/24/2017					28				
10/25/2017	20	23	29			32			9.4
10/26/2017				17			6.6	14	
11/15/2017					27				
2/27/2018					24.6				9.7
2/28/2018	18.6	19.9	23.4			29			
3/1/2018				14.8			10.7		
3/2/2018								12.8	
7/11/2018	20.4	20.9				29.3			
7/12/2018			26.1	15.2			9.5	11.7	
11/6/2018					24.8				10.2
11/7/2018	21.5	20.5	25.8			28.6	8.6	11.4	
11/8/2018				14.6					
3/12/2019					24.2				10.6
3/13/2019	24.8	21.3							
3/14/2019			26.3	15.2		24.8	6.6	10.2	
10/15/2019					20.9				
10/16/2019									11.6
10/17/2019	24.9	20.1				25.8	7		
10/18/2019			23.4	14.4				9.6	
3/2/2020					18.7				10.5
3/3/2020		19.7	21.8						
3/4/2020	27.8			13.9		23.6	4.4	9.1	
9/22/2020	25.8				17	22.1			10.5
9/23/2020							3.3	8	
9/24/2020		20	21.5	13.7					
3/1/2021					15				
3/2/2021	28								9.8
3/3/2021		19.7	20.6	14		20.8	2.9	14.2	
9/9/2021		20.2		12.3					
9/10/2021	26.2		17.3		13.9		2.4	10.9	9.9
9/13/2021						17.1			
1/20/2022		18.6	18.1	12		18.2			
1/21/2022	27						3.1		
1/24/2022					12.5			11.3	9.9

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
1/25/2022									
1/26/2022									
9/13/2022						18.7	3.3	8.9	
9/14/2022									11.2
9/15/2022	26.2	17.6							
9/16/2022			18						
9/19/2022					11.2				
9/20/2022				11.6					

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	9.7	6
8/31/2016		
9/1/2016		
9/2/2016		
9/7/2016		
12/6/2016	9.8	6.2
12/7/2016		
12/8/2016		
3/28/2017		6.6
3/29/2017	9.9	
3/30/2017		
3/31/2017		
5/12/2017		
6/15/2017		
7/11/2017	9.7	6.9
7/12/2017		
7/13/2017		
10/24/2017	9.9	6.7
10/25/2017		
10/26/2017		
11/15/2017		
2/27/2018	9.5	8.2
2/28/2018		
3/1/2018		
3/2/2018		
7/11/2018		10.5
7/12/2018		
11/6/2018	10.5	8.7
11/7/2018		
11/8/2018		
3/12/2019	10.7	8.5
3/13/2019		
3/14/2019		
10/15/2019		
10/16/2019	10.4	
10/17/2019		10
10/18/2019		
3/2/2020		
3/3/2020	9.6	6.6
3/4/2020		
9/22/2020		8
9/23/2020	9.1	
9/24/2020		
3/1/2021		
3/2/2021	8.6	8.4
3/3/2021		
9/9/2021		
9/10/2021		9
9/13/2021	8.2	
1/20/2022		
1/21/2022		
1/24/2022		

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
1/25/2022	9.3	
1/26/2022		9.1
9/13/2022		
9/14/2022		
9/15/2022	8.3	
9/16/2022		
9/19/2022		13.2
9/20/2022		

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	<0.005								
9/25/2020	0.00094 (J)								
12/9/2020				0.0011 (J)		<0.005	<0.005		<0.005
12/17/2020			<0.005		<0.005				
1/11/2021			<0.005						
1/12/2021		<0.005		<0.005					<0.005
1/13/2021								<0.005	
3/4/2021			<0.005	<0.005	<0.005	<0.005	<0.005		
3/5/2021		<0.005							<0.005
3/8/2021	0.00057 (J)							0.00061 (J)	
4/14/2021									
4/15/2021									
9/10/2021			<0.005					<0.005	
9/13/2021	<0.005	0.0014 (J)			<0.005	<0.005			
9/14/2021				<0.005			<0.005		<0.005
1/20/2022								<0.005	
1/21/2022	<0.005								
1/24/2022				<0.005		<0.005	<0.005		<0.005
1/25/2022					<0.005				
1/26/2022		<0.005							
1/27/2022			<0.005						
6/6/2022									
9/8/2022	<0.005								
9/13/2022				<0.005					
9/14/2022						<0.005			<0.005
9/15/2022			<0.005				<0.005		
9/16/2022		<0.005			<0.005				
9/19/2022									
9/20/2022								<0.005	

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	<0.005		
4/15/2021		<0.005	
9/10/2021			
9/13/2021			
9/14/2021	<0.005	<0.005	
1/20/2022	<0.005	<0.005	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			<0.005
9/8/2022			
9/13/2022			
9/14/2022	<0.005		
9/15/2022			
9/16/2022			
9/19/2022		<0.005	
9/20/2022			

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			<0.005						
1/30/2019		<0.005		<0.005					
9/11/2019		<0.005	<0.005						
9/12/2019				<0.005					
9/18/2019					0.00068 (J)				
9/23/2019						0.0011 (J)			
10/21/2019		0.00098 (J)		<0.005		<0.005	0.0017 (J)		
10/22/2019			0.00064 (J)						
10/24/2019					<0.005				
8/13/2020		<0.005			0.0021 (J)				
8/14/2020							0.005 (J)		
8/17/2020	0.0014 (J)					<0.005		0.0014 (J)	
8/19/2020									
9/24/2020		<0.005			0.0007 (J)				
9/25/2020							0.0051 (J)	0.00085 (J)	
9/28/2020	<0.005					<0.005			
3/3/2021	0.00059 (J)								
3/4/2021					0.00098 (J)		0.0049 (J)		
3/5/2021								0.0017 (J)	
3/9/2021									
3/12/2021		<0.005							
9/9/2021		<0.005							
9/13/2021	<0.005							<0.005	
9/14/2021			<0.005	<0.005	<0.005	<0.005			
9/15/2021									<0.005
9/16/2021							0.003 (J)		
1/20/2022		<0.005	<0.005		<0.005				
1/21/2022							0.0034 (J)		
1/25/2022				<0.005		<0.005			
1/26/2022									<0.005
1/27/2022	0.0014 (J)							<0.005	
9/8/2022		<0.005							
9/12/2022									<0.005
9/13/2022					<0.005		0.0022 (J)		
9/14/2022			<0.005						
9/16/2022	<0.005			<0.005		<0.005		<0.005	

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98
1/28/2019			
1/30/2019			
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/21/2019			
10/22/2019			
10/24/2019			
8/13/2020			
8/14/2020			
8/17/2020			
8/19/2020	0.00057 (J)		
9/24/2020			
9/25/2020			
9/28/2020	0.00066 (J)		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	<0.005		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	<0.005	<0.005	<0.005
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.0011 (J)	<0.005	0.0013 (J)
1/27/2022			
9/8/2022			
9/12/2022	<0.005		
9/13/2022		<0.005	<0.005
9/14/2022			
9/16/2022			

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				<0.005	<0.005			<0.005	
9/1/2016						<0.005			
9/6/2016							<0.005		<0.005
9/7/2016									
12/6/2016				<0.005	<0.005			<0.005	
12/7/2016						<0.005	<0.005		<0.005
12/8/2016									
3/28/2017	<0.005	0.0008 (J)	0.0023 (J)						
3/29/2017				0.0008 (J)	<0.005	<0.005		<0.005	
3/30/2017							0.0009 (J)		0.0005 (J)
5/11/2017	<0.005								
5/12/2017			0.0004 (J)						
5/15/2017		0.0006 (J)							
6/15/2017	<0.005	0.0006 (J)							
6/16/2017			0.0005 (J)						
7/11/2017		0.0005 (J)	<0.005						
7/12/2017	<0.005			0.0006 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
8/8/2017		0.0005 (J)							
10/24/2017	<0.005	0.0005 (J)	<0.005	0.0007 (J)	<0.005				
10/25/2017						<0.005		<0.005	<0.005
11/15/2017							<0.005		
2/27/2018		<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	
2/28/2018							<0.005		<0.005
3/8/2018	<0.005								
7/11/2018						<0.005		<0.005	<0.005
7/12/2018	<0.005								
11/6/2018		<0.005	<0.005	<0.005	<0.005				
11/7/2018	<0.005					<0.005	<0.005	<0.005	<0.01 (J)
8/27/2019		0.00071 (J)	0.0018 (J)	0.00083 (J)	0.0006 (J)	<0.005		<0.005	
8/28/2019	<0.005						<0.005		<0.005
9/17/2019						<0.005			
10/15/2019		0.034 (O)	0.0025 (J)	0.00078 (J)	<0.005	<0.005			
10/16/2019	<0.005						<0.005	<0.005	
10/17/2019									0.00058 (J)
10/18/2019									
3/2/2020		0.0013 (J)	0.00045 (J)		0.0006 (J)	<0.005			
3/3/2020				0.00092 (J)			0.00066 (J)	<0.005	0.00046 (J)
3/4/2020									
3/9/2020	<0.005								
8/11/2020		0.0016 (J)	0.0006 (J)	0.00097 (J)	0.00061 (J)	0.00094 (J)		<0.005	
8/12/2020							0.00074 (J)		
8/13/2020	<0.005								0.0048 (J)
8/14/2020									
9/22/2020	<0.005	0.00089 (J)	<0.005		0.00058 (J)	<0.005		<0.005	
9/23/2020							0.00059 (J)		<0.005
9/24/2020				0.001 (J)					
3/1/2021		<0.005	<0.005						
3/2/2021					<0.005		<0.005	<0.005	<0.005
3/3/2021						0.00099 (J)			
3/4/2021				0.0009 (J)					
3/12/2021	<0.005								
9/8/2021			<0.005						

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
9/9/2021	<0.005	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005
9/10/2021				<0.005					
9/13/2021									
1/18/2022		<0.005	<0.005						
1/20/2022									
1/24/2022									<0.005
1/25/2022					<0.005	<0.005	<0.005	<0.005	
1/26/2022				0.0011 (J)					
1/28/2022	<0.005								
9/7/2022		<0.005	<0.005						
9/8/2022	<0.005								
9/13/2022								<0.005	<0.005
9/14/2022									
9/15/2022				<0.005	<0.005	<0.005	<0.005		
9/20/2022									

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0031 (J)	
9/6/2016			
9/7/2016	0.0026 (J)		
12/6/2016			
12/7/2016		<0.005	
12/8/2016	0.0025 (J)		
3/28/2017			
3/29/2017		0.0025 (J)	
3/30/2017	0.0026 (J)		0.0005 (J)
5/11/2017			0.0005 (J)
5/12/2017			
5/15/2017			
6/15/2017			<0.005
6/16/2017			
7/11/2017			<0.005
7/12/2017	0.0022 (J)	0.0023 (J)	
8/8/2017			
10/24/2017			<0.005
10/25/2017	0.0024 (J)	0.0024 (J)	
11/15/2017			
2/27/2018			<0.005
2/28/2018	<0.005	<0.005	
3/8/2018			
7/11/2018	0.0024 (J)	0.0022 (J)	<0.005
7/12/2018			
11/6/2018			<0.005
11/7/2018	<0.005	<0.01 (J)	
8/27/2019	0.0031 (J)		0.0004 (J)
8/28/2019		0.0028 (J)	
9/17/2019			
10/15/2019			
10/16/2019		0.0024 (J)	
10/17/2019			0.00046 (J)
10/18/2019	0.0027 (J)		
3/2/2020			
3/3/2020		0.0028 (J)	<0.005
3/4/2020	0.0035 (J)		
3/9/2020			
8/11/2020		0.0024 (J)	0.00067 (J)
8/12/2020			
8/13/2020			
8/14/2020	0.0033 (J)		
9/22/2020		0.003 (J)	
9/23/2020			<0.005
9/24/2020	0.0029 (J)		
3/1/2021			
3/2/2021		0.0024 (J)	0.00064 (J)
3/3/2021	0.0028 (J)		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.003 (J)	<0.005
9/10/2021			
9/13/2021	0.0027 (J)		
1/18/2022			
1/20/2022			<0.005
1/24/2022	0.0029 (J)		
1/25/2022		0.0029 (J)	
1/26/2022			
1/28/2022			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	0.0023 (J)	0.0024 (J)	
9/15/2022			
9/20/2022			<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									<0.005
9/1/2016							<0.005	<0.005	
9/2/2016	0.0017 (J)	<0.005	0.0012 (J)						
9/7/2016						<0.005			
12/6/2016									<0.005
12/7/2016	<0.005								
12/8/2016		<0.005	<0.005			<0.005	<0.005	<0.005	
3/28/2017					0.0005 (J)				<0.005
3/29/2017	0.0016 (J)		<0.005						
3/30/2017		0.0005 (J)		0.0012 (J)				<0.005	
3/31/2017						0.001 (J)	0.0007 (J)		
5/12/2017				0.0004 (J)	<0.005				
6/15/2017				0.0005 (J)	<0.005				
7/11/2017					<0.005				<0.005
7/12/2017	<0.005	0.0006 (J)		0.0007 (J)					
7/13/2017			<0.005			0.0008 (J)	<0.005	0.0007 (J)	
10/24/2017					<0.005				
10/25/2017	0.0015 (J)	<0.005	<0.005			0.0005 (J)			<0.005
10/26/2017				0.0007 (J)			<0.005	<0.005	
2/27/2018					<0.005				<0.005
2/28/2018	<0.005	<0.005	<0.005			<0.005			
3/1/2018				<0.005			<0.005		
3/2/2018								<0.005	
7/11/2018	<0.005	<0.005				<0.005			
7/12/2018			<0.005	<0.005			<0.005	<0.005	
11/6/2018					<0.005				<0.005
11/7/2018	<0.01 (J)	<0.005	<0.005			<0.005	<0.005	<0.005	
11/8/2018				<0.005					
8/27/2019					<0.005				<0.005
8/28/2019						<0.005			
8/29/2019	0.0017 (J)	0.00041 (J)	<0.005	<0.005			<0.005	<0.005	
10/15/2019					<0.005				
10/16/2019									<0.005
10/17/2019	0.0015 (J)	<0.005				0.00041 (J)	<0.005		
10/18/2019			<0.005	0.00041 (J)				<0.005	
3/2/2020					<0.005				0.00045 (J)
3/3/2020		0.00048 (J)	<0.005						
3/4/2020	0.0032 (J)			0.00081 (J)		0.00042 (J)	<0.005	0.0004 (J)	
8/11/2020									
8/12/2020					<0.005		<0.005		<0.005
8/13/2020	0.0023 (J)			0.00085 (J)		0.0021 (J)		<0.005	
8/14/2020		<0.005	<0.005						
9/22/2020	0.0013 (J)				<0.005	0.001 (J)			<0.005
9/23/2020							<0.005	<0.005	
9/24/2020		0.00096 (J)	<0.005	0.00084 (J)					
3/1/2021					<0.005				
3/2/2021	0.0022 (J)								<0.005
3/3/2021		0.002 (J)	<0.005	0.0014 (J)		<0.005	<0.005	<0.005	
9/9/2021		<0.005		<0.005					
9/10/2021	<0.005		<0.005		<0.005		<0.005	<0.005	<0.005
9/13/2021						<0.005			

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
1/20/2022		<0.005	<0.005	<0.005		<0.005			
1/21/2022	0.0021 (J)						<0.005		
1/24/2022					<0.005			<0.005	<0.005
1/25/2022									
1/26/2022									
9/13/2022						<0.005	<0.005	<0.005	
9/14/2022									<0.005
9/15/2022	0.0014 (J)	<0.005							
9/16/2022			<0.005						
9/19/2022					<0.005				
9/20/2022				<0.005					

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	<0.005	<0.005
8/31/2016		
9/1/2016		
9/2/2016		
9/7/2016		
12/6/2016	<0.005	<0.005
12/7/2016		
12/8/2016		
3/28/2017		0.001 (J)
3/29/2017	0.0004 (J)	
3/30/2017		
3/31/2017		
5/12/2017		
6/15/2017		
7/11/2017	<0.005	<0.005
7/12/2017		
7/13/2017		
10/24/2017	<0.005	<0.005
10/25/2017		
10/26/2017		
2/27/2018	<0.005	<0.005
2/28/2018		
3/1/2018		
3/2/2018		
7/11/2018		<0.005
7/12/2018		
11/6/2018	<0.005	<0.005
11/7/2018		
11/8/2018		
8/27/2019		0.00048 (J)
8/28/2019	<0.005	
8/29/2019		
10/15/2019		
10/16/2019	0.0013 (J)	
10/17/2019		0.00051 (J)
10/18/2019		
3/2/2020		
3/3/2020	0.00061 (J)	0.0057 (J)
3/4/2020		
8/11/2020		0.00061 (J)
8/12/2020	0.0028 (J)	
8/13/2020		
8/14/2020		
9/22/2020		<0.005
9/23/2020	0.00086 (J)	
9/24/2020		
3/1/2021		
3/2/2021	0.0015 (J)	0.00059 (J)
3/3/2021		
9/9/2021		
9/10/2021		<0.005
9/13/2021	<0.005	

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	<0.005	
1/26/2022		0.0029 (J)
9/13/2022		
9/14/2022		
9/15/2022	<0.005	
9/16/2022		
9/19/2022		<0.005
9/20/2022		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
7/23/2020	0.086								
8/3/2020	0.087								
8/17/2020	0.077								
9/25/2020	0.034								
12/9/2020				0.17		0.0017 (J)	0.0048 (J)		0.00076 (J)
12/17/2020			0.014		0.00087 (J)				
1/11/2021			0.015						
1/12/2021		0.0034 (J)		0.19					0.0007 (J)
1/13/2021								<0.005	
3/4/2021			0.014	0.19	0.0007 (J)	0.0012 (J)	0.0017 (J)		
3/5/2021		0.0023 (J)							0.00052 (J)
3/8/2021	0.029							<0.005	
4/14/2021									
4/15/2021									
9/10/2021			0.013					<0.005	
9/13/2021	0.035	0.003 (J)			0.00056 (J)	0.00083 (J)			
9/14/2021				0.1			0.0017 (J)		<0.005
1/20/2022								<0.005	
1/21/2022	0.034								
1/24/2022				0.1		0.00088 (J)	0.00061 (J)		0.00041 (J)
1/25/2022					<0.005				
1/26/2022		0.0028 (J)							
1/27/2022			0.014						
6/6/2022									
9/8/2022	0.028								
9/13/2022				0.14					
9/14/2022						0.00061 (J)			<0.005
9/15/2022			0.012				0.001 (J)		
9/16/2022		0.0035 (J)			<0.005				
9/19/2022									
9/20/2022								<0.005	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
7/23/2020			
8/3/2020			
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	0.3		
4/15/2021		0.017	
9/10/2021			
9/13/2021			
9/14/2021	0.28	0.0055	
1/20/2022	0.24	0.0045 (J)	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			0.006
9/8/2022			
9/13/2022			
9/14/2022	0.23		
9/15/2022			
9/16/2022			
9/19/2022		0.0027 (J)	
9/20/2022			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			0.053						
1/30/2019		<0.005		<0.005					
9/11/2019		0.0003 (J)	0.043						
9/12/2019				0.006					
9/18/2019					0.0031 (J)				
9/23/2019						0.0038 (J)			
10/21/2019		0.00031 (J)		0.0074		0.0089	0.018		
10/22/2019			0.046						
10/24/2019					0.0021 (J)				
11/22/2019								0.018 (J)	
12/19/2019									
2/17/2020									
8/13/2020		<0.005			0.0011 (J)				
8/14/2020							0.021		
8/17/2020	0.042					0.0028 (J)		0.0031 (J)	
8/19/2020									
9/24/2020		<0.005			0.0004 (J)				
9/25/2020							0.0073	0.0015 (J)	
9/28/2020	0.042					0.0053			
3/3/2021	0.05								
3/4/2021					0.0017 (J)		0.0099		
3/5/2021								0.022	
3/9/2021									
3/12/2021		<0.005	0.046	0.01		0.0021 (J)			
3/15/2021									
9/9/2021		<0.005							
9/13/2021	0.047							0.0018 (J)	
9/14/2021			0.037	0.012	<0.005	0.0015 (J)			
9/15/2021									0.063
9/16/2021							0.011		
1/20/2022		<0.005	0.039		<0.005				
1/21/2022							0.011		
1/25/2022				0.013		0.0039 (J)			
1/26/2022									0.071
1/27/2022	0.052							0.0038 (J)	
9/8/2022		<0.005							
9/9/2022		<0.005							
9/12/2022									0.073
9/13/2022					<0.005 (D)		0.012		
9/14/2022			0.0465 (D)						
9/16/2022	0.051			0.012 (D)		0.00175 (JD)		0.00135 (JD)	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98
1/28/2019			
1/30/2019			
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/21/2019			
10/22/2019			
10/24/2019			
11/22/2019			
12/19/2019	0.066		
2/17/2020			<0.005
8/13/2020			
8/14/2020			
8/17/2020			
8/19/2020	0.068		
9/24/2020			
9/25/2020			
9/28/2020	0.064		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	0.061		
3/12/2021			
3/15/2021			<0.005
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	0.062	0.003 (J)	0.0048 (J)
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.064	0.003 (J)	<0.005
1/27/2022			
9/8/2022			
9/9/2022			
9/12/2022	0.057		
9/13/2022		0.0029 (J)	0.00063 (J)
9/14/2022			
9/16/2022			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				0.193	<0.005			<0.005	
9/1/2016						0.0021 (J)			
9/6/2016							<0.005		0.0042 (J)
9/7/2016									
12/6/2016				0.2	0.0006 (J)			<0.005	
12/7/2016						0.0026 (J)	<0.005		0.0028 (J)
12/8/2016									
3/28/2017	0.025	0.0034 (J)	0.0033 (J)						
3/29/2017				0.184	<0.005	0.0026 (J)		<0.005	
3/30/2017							0.0005 (J)		0.0024 (J)
5/11/2017	0.0281								
5/12/2017			0.0016 (J)						
5/15/2017		0.0024 (J)							
6/15/2017	0.0322	0.0014 (J)							
6/16/2017			0.0011 (J)						
7/11/2017		0.0007 (J)	0.0008 (J)						
7/12/2017	0.0247			0.177	<0.005	0.0033 (J)	0.0004 (J)	<0.005	0.002 (J)
8/8/2017		0.0007 (J)							
10/24/2017	0.0267	<0.005	0.0004 (J)	0.175	<0.005				
10/25/2017						0.0021 (J)		<0.005	0.0019 (J)
11/15/2017							<0.005		
2/27/2018		<0.005	<0.005	0.2	<0.005	<0.005		<0.005	
2/28/2018							<0.005		<0.005
3/8/2018	0.027								
7/11/2018						0.002 (J)		<0.005	0.0018 (J)
7/12/2018	0.024								
11/6/2018		<0.005	<0.005	0.2	<0.005				
11/7/2018	0.018					<0.01 (J)	<0.005	<0.005	0.025
8/27/2019		<0.005	<0.005	0.13	0.00076 (J)	0.0021 (J)		<0.005	
8/28/2019	0.013						<0.005		0.0015 (J)
9/17/2019						0.0079			
10/15/2019		0.00064 (J)	<0.005	0.17	0.0006 (J)	0.0058			
10/16/2019	0.009						<0.005	<0.005	
10/17/2019									0.0018 (J)
10/18/2019									
3/2/2020		0.00037 (J)	<0.005		0.00078 (J)	0.029			
3/3/2020				0.18			<0.005	<0.005	0.0018 (J)
3/4/2020									
3/9/2020	0.016								
8/11/2020		0.0012 (J)	<0.005	0.11	0.00055 (J)	0.006		<0.005	
8/12/2020							<0.005		
8/13/2020	0.0051								0.0024 (J)
8/14/2020									
9/22/2020	0.011	<0.005	<0.005		0.00098 (J)	0.013		<0.005	
9/23/2020							0.00038 (J)		0.0018 (J)
9/24/2020				0.086					
3/1/2021		<0.005	<0.005						
3/2/2021					0.00065 (J)		<0.005	<0.005	0.0013 (J)
3/3/2021						0.01			
3/4/2021				0.071					
3/12/2021	0.0078								
9/8/2021			<0.005						

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
9/9/2021	0.0064	<0.005			0.00081 (J)	0.034	<0.005	<0.005	0.0016 (J)
9/10/2021				0.076					
9/13/2021									
1/18/2022		<0.005	<0.005						
1/20/2022									
1/24/2022									0.0015 (J)
1/25/2022					0.0015 (J)	0.018	<0.005	<0.005	
1/26/2022				0.099					
1/28/2022	0.014								
9/7/2022		<0.005	<0.005						
9/8/2022	0.012								
9/13/2022								<0.005	0.0016 (J)
9/14/2022									
9/15/2022				0.055	0.001 (J)	0.025	<0.005		
9/20/2022									

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0553	
9/6/2016			
9/7/2016	0.0247		
12/6/2016			
12/7/2016		0.0561	
12/8/2016	0.029		
3/28/2017			
3/29/2017		0.0534	
3/30/2017	0.0283		0.0255
5/11/2017			0.0284
5/12/2017			
5/15/2017			
6/15/2017			0.0238
6/16/2017			
7/11/2017			0.0238
7/12/2017	0.023	0.0489	
8/8/2017			
10/24/2017			0.0292
10/25/2017	0.0259	0.0514	
11/15/2017			
2/27/2018			0.042
2/28/2018	0.02	0.0511	
3/8/2018			
7/11/2018	0.025	0.051	0.02
7/12/2018			
11/6/2018			0.024
11/7/2018	<0.01 (J)	0.048	
8/27/2019	0.031		0.0088
8/28/2019		0.048	
9/17/2019			
10/15/2019			
10/16/2019		0.046	
10/17/2019			0.0084
10/18/2019	0.023		
3/2/2020			
3/3/2020		0.054	0.0073
3/4/2020	0.023		
3/9/2020			
8/11/2020		0.049	0.0064
8/12/2020			
8/13/2020			
8/14/2020	0.026		
9/22/2020		0.051	
9/23/2020			0.0062
9/24/2020	0.028		
3/1/2021			
3/2/2021		0.051	0.0055
3/3/2021	0.016		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.055	0.0048 (J)
9/10/2021			
9/13/2021	0.019		
1/18/2022			
1/20/2022			0.004 (J)
1/24/2022	0.019		
1/25/2022		0.054	
1/26/2022			
1/28/2022			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	0.016	0.052	
9/15/2022			
9/20/2022			0.0028 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									0.055
9/1/2016							0.536	0.539	
9/2/2016	0.497	0.0085 (J)	0.0102						
9/7/2016						0.0695			
12/6/2016									0.0432
12/7/2016	0.614								
12/8/2016		0.0095 (J)	0.0079 (J)			0.0652	0.381	0.575	
3/28/2017					0.0018 (J)				0.04
3/29/2017	0.443		0.0097 (J)						
3/30/2017		0.0076 (J)		<0.005				0.573	
3/31/2017						0.0524	0.354		
5/12/2017				<0.005	0.0015 (J)				
6/15/2017				0.0003 (J)	0.0015 (J)				
7/11/2017					0.0015 (J)				0.0351 (J)
7/12/2017	0.538	0.0092 (J)		<0.005					
7/13/2017			0.0106			0.0481	0.396	0.531	
10/24/2017					0.0017 (J)				
10/25/2017	0.432	0.0092 (J)	0.0094 (J)			0.0435			0.0209
10/26/2017				<0.005			0.383	0.482	
2/27/2018					<0.005				0.024
2/28/2018	0.459	<0.005	<0.005			0.0167			
3/1/2018				<0.005			0.401		
3/2/2018								0.49	
7/11/2018	0.47	0.0097 (J)				0.019			
7/12/2018			0.011	<0.005			0.36	0.46	
11/6/2018					<0.01 (J)				0.019
11/7/2018	0.42	<0.01 (J)	<0.01 (J)			0.02	0.35	0.48	
11/8/2018				<0.01 (J)					
8/27/2019					0.0018 (J)				0.02
8/28/2019						0.029			
8/29/2019	0.66	0.01	0.0094	0.00036 (J)			0.28	0.42	
10/15/2019					0.0018 (J)				
10/16/2019									0.022
10/17/2019	0.57	0.01				0.03	0.26		
10/18/2019			0.0084	<0.005				0.41	
3/2/2020					0.0021 (J)				0.028
3/3/2020		0.01	0.0098						
3/4/2020	0.84			0.00043 (J)		0.014	0.28	0.42	
8/11/2020									
8/12/2020					0.0018 (J)		0.21		0.021
8/13/2020	0.73			0.00048 (J)		0.025		0.35	
8/14/2020		0.0098	0.0087						
9/22/2020	0.47				0.0014 (J)	0.014			0.02
9/23/2020							0.17	0.37	
9/24/2020		0.01	0.01	<0.005					
3/1/2021					0.002 (J)				
3/2/2021	0.77								0.021
3/3/2021		0.0087	0.0078	0.00039 (J)		0.0087	0.2	0.36	
9/9/2021		0.0096		0.00049 (J)					
9/10/2021	0.45		0.0076		0.0019 (J)		0.23	0.36	0.022
9/13/2021						0.008			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
1/20/2022		0.0076	0.0075	0.00058 (J)		0.0056			
1/21/2022	0.95						0.24		
1/24/2022					0.0019 (J)			0.34	0.025
1/25/2022									
1/26/2022									
9/13/2022						0.0069	0.21	0.31	
9/14/2022									0.027
9/15/2022	0.75	0.0081							
9/16/2022			0.0098						
9/19/2022					0.0018 (J)				
9/20/2022				0.00053 (J)					

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	0.0568	0.0896
8/31/2016		
9/1/2016		
9/2/2016		
9/7/2016		
12/6/2016	0.0873	0.122
12/7/2016		
12/8/2016		
3/28/2017		0.124
3/29/2017	0.0902	
3/30/2017		
3/31/2017		
5/12/2017		
6/15/2017		
7/11/2017	0.0601	0.136
7/12/2017		
7/13/2017		
10/24/2017	0.123	0.151
10/25/2017		
10/26/2017		
2/27/2018	0.126	0.163
2/28/2018		
3/1/2018		
3/2/2018		
7/11/2018		0.18
7/12/2018		
11/6/2018	0.077	0.2
11/7/2018		
11/8/2018		
8/27/2019		0.24
8/28/2019	0.051	
8/29/2019		
10/15/2019		
10/16/2019	0.054	
10/17/2019		0.21
10/18/2019		
3/2/2020		
3/3/2020	0.044	0.2
3/4/2020		
8/11/2020		0.22
8/12/2020	0.053	
8/13/2020		
8/14/2020		
9/22/2020		0.16
9/23/2020	0.04	
9/24/2020		
3/1/2021		
3/2/2021	0.033	0.18
3/3/2021		
9/9/2021		
9/10/2021		0.21
9/13/2021	0.028	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	0.019	
1/26/2022		0.22
9/13/2022		
9/14/2022		
9/15/2022	0.0046 (J)	
9/16/2022		
9/19/2022		0.25
9/20/2022		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	1.4 (U)								
9/25/2020	0.799 (U)								
9/28/2020									
12/9/2020				15.2		1.49	1.31 (U)		12.3
12/17/2020			1.22 (U)		0.952 (U)				
1/11/2021			0.635 (U)						
1/12/2021		1.91		17					9.63
1/13/2021								11.8	
3/3/2021									
3/4/2021			0.789 (U)	14.5	0.681 (U)	2.14	2.02		
3/5/2021		2.17							9.05
3/8/2021	0.168 (U)							12.1	
4/14/2021									
4/15/2021									
9/10/2021			1.74					9.45	
9/13/2021	0.774 (U)	1.8			0.625 (U)	0.813 (U)			
9/14/2021				9.6			0.917 (U)		4.39
1/20/2022								16.2	
1/21/2022	0.769 (U)								
1/24/2022				11.9		1.14 (U)	0.812 (U)		5.68
1/25/2022					0.454 (U)				
1/26/2022		1.21							
1/27/2022			0.628 (U)						
9/8/2022	0.643 (U)								
9/13/2022				9.12					
9/14/2022						0.737 (U)			6.23
9/15/2022			0.61 (U)				1.36		
9/16/2022		1.64			0.655 (U)				
9/19/2022									
9/20/2022								16.5	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-56
8/17/2020			1.15 (U)
9/25/2020			
9/28/2020			1.39
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021			1.01 (U)
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	14.7		
4/15/2021		2.31	
9/10/2021			
9/13/2021			0.854 (U)
9/14/2021	11.9	3.68	
1/20/2022	9.86	1.21 (U)	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			0.831 (U)
9/8/2022			
9/13/2022			
9/14/2022	13.3		
9/15/2022			
9/16/2022			0.752 (U)
9/19/2022		2.22	
9/20/2022			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93
3/28/2017									
5/11/2017									
6/15/2017									
7/12/2017									
10/24/2017									
3/8/2018									
7/12/2018									
11/7/2018									
1/28/2019		2.14 (U)							
1/30/2019	1.97 (U)		0.975 (U)						
8/28/2019									
10/16/2019									
10/21/2019	1.82		1.07 (U)		0.63 (U)	0.792 (U)			
10/22/2019		1.28 (U)							
10/24/2019				1.87					
3/9/2020									
8/13/2020	1.63			2.17					
8/14/2020						0.95 (U)			
8/17/2020					0.662 (U)		2.47		
8/19/2020									1.19 (U)
9/22/2020									
9/24/2020	1.28 (U)			0.761 (U)					
9/25/2020						0.0359 (U)	0.925 (U)		
9/28/2020					0.747 (U)				1.54
3/4/2021				2.16		1.15 (U)			
3/5/2021							2.84		
3/9/2021									0.786 (U)
3/12/2021	1.18 (U)								
9/9/2021	1.7								
9/13/2021							0.771 (U)		
9/14/2021		1.68	0.421 (U)	0.617 (U)	1.03 (U)				
9/15/2021								1.39	1.84
9/16/2021						0.442 (U)			
1/20/2022	1.71	0.846 (U)		0.92					
1/21/2022						0.549 (U)			
1/25/2022			0 (U)		0.33 (U)				
1/26/2022								1.27 (U)	0.758 (U)
1/27/2022							1.18		
1/28/2022									
9/8/2022									
9/9/2022	1.96								
9/12/2022								2.34	1.09
9/13/2022				1.11		0.893 (U)			
9/14/2022		1.61							
9/16/2022			0.832 (U)		0.694 (U)		1.25		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	B-98	DGWA-53 (bg)
3/28/2017			6.36
5/11/2017			3.45
6/15/2017			4.58
7/12/2017			4.37
10/24/2017			4.46
3/8/2018			2.14
7/12/2018			4.65
11/7/2018			3.05
1/28/2019			
1/30/2019			
8/28/2019			2.68
10/16/2019			1.89
10/21/2019			
10/22/2019			
10/24/2019			
3/9/2020			3.51
8/13/2020			1.04
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020			2.27
9/24/2020			
9/25/2020			
9/28/2020			
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021			1.63
9/9/2021			2.72
9/13/2021			
9/14/2021			
9/15/2021	2.11	2.2	
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	1.47 (U)	0.52 (U)	
1/27/2022			
1/28/2022			2.1
9/8/2022			1.69
9/9/2022			
9/12/2022			
9/13/2022	1.11	2.03	
9/14/2022			
9/16/2022			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016			1.08	1.09			0.997 (U)		
9/1/2016					1.11				
9/2/2016									
9/6/2016						1.32		0.731 (U)	
9/7/2016									1.17
12/6/2016			1.31	0.409 (U)			0.659 (U)		
12/7/2016					2.66	1.76		1.73	
12/8/2016									1.65
3/28/2017	0.866 (U)	0.257 (U)							
3/29/2017			1.24	0.727	0.0726 (U)		0.313 (U)		
3/30/2017						1.59		0.276 (U)	0.865 (U)
5/11/2017									
5/12/2017		0.165 (U)							
5/15/2017	0.288 (U)								
6/15/2017	1.01 (U)								
6/16/2017		0.732 (U)							
7/11/2017	0.254 (U)	0.461 (U)							
7/12/2017			0.831	0.85 (U)	0.538 (U)	1.36	1.03 (U)	0.584 (U)	0.362 (U)
8/8/2017	1.48								
10/24/2017	0.472 (U)	0.724 (U)	0.838 (U)	0.98 (U)					
10/25/2017					0.216 (U)		0.607 (U)	0.454 (U)	0.401 (U)
11/15/2017						1.08 (U)			
2/27/2018	1.22	0.714 (U)	1.55	1.14	0.83		0.695 (U)		
2/28/2018						0.721 (U)		1.25	1.1 (U)
7/10/2018	0.362 (U)	0.426 (U)	1.65	0.495 (U)		0.746 (U)			
7/11/2018					0.728 (U)		1.04 (U)	2.13	0.64 (U)
11/6/2018	0.859 (U)	0.455 (U)	1.46	1.41					
11/7/2018					0.414 (U)	1.22 (U)	0.593 (U)	0.786 (U)	0.795 (U)
8/27/2019	1.97	1.3 (U)	1.58	2.13	0.434 (U)		1.17 (U)		1.12
8/28/2019						1.43		1.01 (U)	
8/29/2019									
10/15/2019	0.319 (U)	1.21 (U)	0.831 (U)	0.622 (U)	0.359 (U)				
10/16/2019						1.73	1.04 (U)		
10/17/2019								1.03 (U)	
10/18/2019									0.89 (U)
3/2/2020	0.419 (U)	1.3		1.3	1.2 (U)				
3/3/2020			1.69			1.03	1.44	0.293 (U)	
3/4/2020									0.493 (U)
8/11/2020	0.812 (U)	0.965 (U)	1.45	1.02	0.77 (U)		1.17 (U)		
8/12/2020						1.63			
8/13/2020								3.58	
8/14/2020									0.804 (U)
9/22/2020	0.45 (U)	0.216 (U)		0.502 (U)	0.515 (U)		1.2 (U)		
9/23/2020						0.935 (U)		1.69 (U)	
9/24/2020			1.39						0.369 (U)
3/1/2021	0.552 (U)	0.389 (U)							
3/2/2021				0.666 (U)		1.12 (U)	0.861 (U)	0.599 (U)	
3/3/2021					1.85				0.66 (U)
3/4/2021			1.48						
9/8/2021		0.051 (U)							
9/9/2021	0.779 (U)			1.2 (U)	1.78	1.23 (U)	0.643 (U)	0.624 (U)	
9/10/2021			0.882 (U)						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
9/13/2021									0.85 (U)
1/18/2022	1.26	0.729 (U)							
1/20/2022									
1/21/2022									
1/24/2022								0.534 (U)	0.692 (U)
1/25/2022				0.983 (U)	0.739 (U)	0.254 (U)	0.229 (U)		
1/26/2022			1.21						
9/7/2022	0.504 (U)	0.588 (U)							
9/13/2022							0.538 (U)	0.761 (U)	
9/14/2022									0.489 (U)
9/15/2022			0.953	1.12	0.52 (U)	1.01			
9/20/2022									

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
8/31/2016			
9/1/2016	1.07 (U)		
9/2/2016			1.48
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016	0.903 (U)		1.26 (U)
12/8/2016			
3/28/2017			
3/29/2017	0.302 (U)		0.373 (U)
3/30/2017		0.737 (U)	
5/11/2017		0.892 (U)	
5/12/2017			
5/15/2017			
6/15/2017		0.979 (U)	
6/16/2017			
7/11/2017		0.871 (U)	
7/12/2017	0.283 (U)		0.91 (U)
8/8/2017			
10/24/2017		1.19	
10/25/2017	0.927 (U)		0.853 (U)
11/15/2017			
2/27/2018		0.863 (U)	
2/28/2018	0.813 (U)		0.727 (U)
7/10/2018			
7/11/2018	0.751 (U)	0.663 (U)	1.3
11/6/2018		0.664	
11/7/2018	1.02		0.746 (U)
8/27/2019		1.6	
8/28/2019	0.661 (U)		
8/29/2019			0.996 (U)
10/15/2019			
10/16/2019	1.79		
10/17/2019		1.74	2
10/18/2019			
3/2/2020			
3/3/2020	0.383 (U)	1.23	
3/4/2020			1.67
8/11/2020	0.723 (U)	1.37	
8/12/2020			
8/13/2020			1.77
8/14/2020			
9/22/2020	0.96 (U)		1.61 (U)
9/23/2020		1.96 (U)	
9/24/2020			
3/1/2021			
3/2/2021	0.775 (U)	1.54 (U)	1.76
3/3/2021			
3/4/2021			
9/8/2021			
9/9/2021	0.239 (U)	1.22 (U)	
9/10/2021			0.689 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20
9/13/2021			
1/18/2022			
1/20/2022		0.722 (U)	
1/21/2022			0.826 (U)
1/24/2022			
1/25/2022	0.415 (U)		
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022	0.674 (U)		
9/15/2022			1.38
9/20/2022		0.45 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016									0.919 (U)
8/31/2016								2.49	
9/1/2016						4.47	2.37		
9/2/2016	0.908 (U)	1.54							
9/7/2016					0.876 (U)				
12/6/2016								0.348 (U)	0.407 (U)
12/8/2016	1.03 (U)	0.505 (U)			0.955	2.88	2.87		
3/28/2017				1.36				0.693 (U)	
3/29/2017		0.715 (U)							0.28 (U)
3/30/2017	0.884 (U)		0.297 (U)				1.71		
3/31/2017					0.102 (U)	1.14			
5/12/2017			0.693 (U)	1.15					
6/15/2017			0.435 (U)	0.765 (U)					
7/11/2017				1.13				1.38	0.209 (U)
7/12/2017	1.22		0.703 (U)						
7/13/2017		1.14			1.08 (U)	2.37	1.78		
10/24/2017				1.24					0.615 (U)
10/25/2017	1.07 (U)	1.6			1.46			2.06	
10/26/2017			0.984 (U)			2.88	3.74		
2/27/2018				1.82				1.97	1.05 (U)
2/28/2018	1.45	0.918 (U)			0.882 (U)				
3/1/2018			0.743 (U)			2.21			
3/2/2018							2.26		
7/10/2018				1.37				1.03 (U)	0.363 (U)
7/11/2018	1.59				0.924 (U)				
7/12/2018		0.981 (U)	0.918 (U)			1.73	1.81		
11/6/2018				1.2				1.13	0.577 (U)
11/7/2018	1.16	0.832 (U)			0.654 (U)	1.72	1.94		
11/8/2018			1.47						
8/27/2019				1.79				1.81	
8/28/2019					0.883 (U)				0.815 (U)
8/29/2019	0.582 (U)	1.87	2.21			3.05	2.37		
10/15/2019				2.11 (U)					
10/16/2019								1.63	0.999 (U)
10/17/2019	0.427 (U)				1.38	2.58			
10/18/2019		1.1 (U)	1.32				1.42		
3/2/2020				1.99				2.28	
3/3/2020	0.567 (U)	0.517 (U)							0.481 (U)
3/4/2020			1.39		0.722 (U)	1.68	1.31		
8/11/2020									
8/12/2020				1.95		2.56		1.13	0.721 (U)
8/13/2020			1.48 (U)		1.23 (U)		1.74		
8/14/2020	0.602 (U)	1.83							
9/22/2020				1.43 (U)	1.03 (U)			1.4 (U)	
9/23/2020						2.3 (U)	1.51 (U)		0.8 (U)
9/24/2020	0.396 (U)	1.02 (U)	1.49						
3/1/2021				1.05 (U)					
3/2/2021								0.971 (U)	0.751 (U)
3/3/2021	0.248 (U)	0.547 (U)	1.05 (U)		0.92 (U)	1.27 (U)	1.41		
9/9/2021	0.702 (U)		1.81						
9/10/2021		0.616 (U)		1.46		2.32	2.21	1.15	
9/13/2021					1.15 (U)				0.916 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
1/20/2022	0.337 (U)	0.298 (U)	0.61 (U)		0.0465 (U)				
1/21/2022						0.785 (U)			
1/24/2022				0.944 (U)			0.668 (U)	0.807 (U)	
1/25/2022									0.356 (U)
1/26/2022									
9/13/2022					0.829 (U)	1.97	1.42		
9/14/2022								0.665 (U)	
9/15/2022	0.771 (U)								0.896
9/16/2022		1.01							
9/19/2022				1.55					
9/20/2022			1.17 (U)						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9
8/30/2016	1.33
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	0.828 (U)
12/8/2016	
3/28/2017	1.06
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	0.62 (U)
7/12/2017	
7/13/2017	
10/24/2017	1.21
10/25/2017	
10/26/2017	
2/27/2018	1.79
2/28/2018	
3/1/2018	
3/2/2018	
7/10/2018	
7/11/2018	1.81
7/12/2018	
11/6/2018	1.13
11/7/2018	
11/8/2018	
8/27/2019	1.55
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	0.702 (U)
10/18/2019	
3/2/2020	
3/3/2020	1.37
3/4/2020	
8/11/2020	0.819 (U)
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	1.15 (U)
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	1.29 (U)
3/3/2021	
9/9/2021	
9/10/2021	1.28
9/13/2021	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	0.789 (U)
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	1.38
9/20/2022	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	<0.1								
9/25/2020	<0.1								
12/9/2020				0.33		<0.1	<0.1		0.33
12/17/2020			0.079 (J)		0.052 (J)				
1/11/2021			0.077 (J)						
1/12/2021		0.052 (J)		0.36					0.32
1/13/2021								0.17	
3/4/2021			0.11	0.43	0.055 (J)	<0.1	<0.1		
3/5/2021		0.053 (J)							0.51
3/8/2021	<0.1							0.14	
4/14/2021									
4/15/2021									
9/10/2021			0.083 (J)					0.15	
9/13/2021	<0.1	0.051 (J)			0.052 (J)	<0.1			
9/14/2021				0.5			<0.1		0.57
1/20/2022								0.11	
1/21/2022	<0.1								
1/24/2022				0.28		<0.1	<0.1		0.38
1/25/2022					<0.1				
1/26/2022		<0.1							
1/27/2022			0.062 (J)						
6/6/2022									
9/8/2022	0.072 (J)								
9/13/2022				0.35					
9/14/2022						0.053 (J)			0.38
9/15/2022			0.11				0.061 (J)		
9/16/2022		0.099 (J)			0.08 (J)				
9/19/2022									
9/20/2022								0.15	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	0.99		
4/15/2021		<0.1	
9/10/2021			
9/13/2021			
9/14/2021	1	<0.1	
1/20/2022	0.59	<0.1	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			0.2
9/8/2022			
9/13/2022			
9/14/2022	0.63		
9/15/2022			
9/16/2022			
9/19/2022		0.057 (J)	
9/20/2022			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			0.45						
1/30/2019		0.43		0.51					
10/21/2019		0.23 (J)		0.3 (J)		0.2 (J)	0.13 (J)		
10/22/2019			0.2 (J)						
10/24/2019					0.096 (J)				
8/13/2020		0.11			<0.1				
8/14/2020							0.05 (J)		
8/17/2020	0.19					<0.1		<0.1	
8/19/2020									
9/24/2020		0.093 (J)			<0.1				
9/25/2020							<0.1	<0.1	
9/28/2020	0.098 (J)					<0.1			
3/3/2021	0.34								
3/4/2021					<0.1		0.071 (J)		
3/5/2021								<0.1	
3/9/2021									
3/12/2021		0.11							
9/9/2021		0.14							
9/13/2021	0.2							<0.1	
9/14/2021			0.16	0.22	0.078 (J)	0.052 (J)			
9/15/2021									0.18
9/16/2021							0.066 (J)		
1/20/2022		0.099 (J)	0.12		<0.1				
1/21/2022							<0.1		
1/25/2022				0.12		<0.1			
1/26/2022									0.3
1/27/2022	0.21							<0.1	
9/8/2022		0.13							
9/12/2022									0.24
9/13/2022					0.08 (J)		0.081 (J)		
9/14/2022			0.14						
9/16/2022	0.22			0.18		0.079 (J)		0.054 (J)	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98
1/28/2019			
1/30/2019			
10/21/2019			
10/22/2019			
10/24/2019			
8/13/2020			
8/14/2020			
8/17/2020			
8/19/2020	0.32		
9/24/2020			
9/25/2020			
9/28/2020	0.3		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	0.34		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	0.34	0.085 (J)	0.098 (J)
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.41	0.088 (J)	0.13
1/27/2022			
9/8/2022			
9/12/2022	0.4		
9/13/2022		0.14	0.18
9/14/2022			
9/16/2022			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				1	0.06 (J)			0.06 (J)	
9/1/2016						0.02 (J)			
9/6/2016							0.17 (J)		0.11 (J)
9/7/2016									
12/6/2016				1.3	0.06 (J)			0.1 (J)	
12/7/2016						0.16 (J)	0.3		0.11 (J)
12/8/2016									
3/28/2017	0.12 (J)	1.2 (O)	0.06 (J)						
3/29/2017				1.5	0.04 (J)	0.1 (J)		0.02 (J)	
3/30/2017							0.12 (J)		<0.1
5/11/2017	0.07 (J)								
5/12/2017			<0.1						
5/15/2017		0.005 (J)							
6/15/2017	0.19 (J)	0.02 (J)							
6/16/2017			0.008 (J)						
7/11/2017		0.06 (J)	0.007 (J)						
7/12/2017	0.1 (J)			1.7	0.03 (J)	0.2 (J)	0.13 (J)	<0.1	0.07 (J)
8/8/2017		0.04 (J)							
10/24/2017	0.06 (J)	<0.1	<0.1	2.1	<0.1				
10/25/2017						0.6		<0.1	0.26 (J)
11/15/2017	0.05 (J)		<0.1	1.4			0.44		
2/27/2018		<0.1	<0.1	2.3	<0.1	0.34		<0.1	
2/28/2018							0.18		<0.1
3/8/2018	<0.1								
7/11/2018						<0.1		<0.1	<0.1
7/12/2018	0.071 (J)								
11/6/2018		<0.1	<0.1	2	<0.1				
11/7/2018	<0.1					<0.3 (J)	<0.3 (J)	<0.1	<0.1
3/12/2019		0.039 (J)	<0.1	1.7	0.052 (J)	0.065 (J)			
3/13/2019	0.13 (J)						0.13 (J)	0.042 (J)	
3/14/2019									0.057 (J)
8/27/2019		<0.1	<0.1	1.4	<0.1	<0.1		<0.1	
8/28/2019	0.42						0.091 (J)		<0.1
10/15/2019		<0.1	<0.1	1.4	<0.1	<0.1			
10/16/2019	0.11 (J)						0.14 (J)	0.052 (J)	
10/17/2019									0.079 (J)
10/18/2019									
3/2/2020		<0.1	<0.1		0.064 (J)	0.071 (J)			
3/3/2020				1.5			0.078 (J)	<0.1	<0.1
3/4/2020									
3/9/2020	0.1 (J)								
8/11/2020		<0.1	<0.1	1.4	<0.1	<0.1		<0.1	
8/12/2020							0.051 (J)		
8/13/2020	0.062 (J)								<0.1
8/14/2020									
9/22/2020	0.099 (J)	<0.1	<0.1		<0.1	<0.1		<0.1	
9/23/2020							0.058 (J)		<0.1
9/24/2020				0.97					
3/1/2021		<0.1	<0.1						
3/2/2021					<0.1		0.084 (J)	<0.1	<0.1
3/3/2021						0.085 (J)			
3/4/2021				1.8					

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
3/12/2021	0.076 (J)								
9/8/2021			<0.1						
9/9/2021	0.099 (J)	<0.1			<0.1	0.099 (J)	0.083 (J)	<0.1	<0.1
9/10/2021				2.2					
9/13/2021									
1/18/2022		<0.1	<0.1						
1/20/2022									
1/24/2022									<0.1
1/25/2022					<0.1	0.093 (J)	0.063 (J)	<0.1	
1/26/2022				1.8					
1/28/2022	0.08 (J)								
9/7/2022		0.061 (J)	0.056 (J)						
9/8/2022	0.11								
9/13/2022								0.059 (J)	0.065 (J)
9/14/2022									
9/15/2022				0.84	0.064 (J)	0.078 (J)	0.095 (J)		
9/20/2022									

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.75	
9/6/2016			
9/7/2016	0.32		
12/6/2016			
12/7/2016		0.37	
12/8/2016	0.31		
3/28/2017			
3/29/2017		0.35	
3/30/2017	0.1 (J)		0.06 (J)
5/11/2017			0.06 (J)
5/12/2017			
5/15/2017			
6/15/2017			0.07 (J)
6/16/2017			
7/11/2017			0.04 (J)
7/12/2017	0.27 (J)	0.34	
8/8/2017			
10/24/2017			0.43
10/25/2017	0.49	0.9	
11/15/2017			
2/27/2018			0.28
2/28/2018	0.54	1.2	
3/8/2018			
7/11/2018	0.15 (J)	0.37	0.6
7/12/2018			
11/6/2018			<0.1
11/7/2018	<0.3 (J)	<0.3 (J)	
3/12/2019			0.052 (J)
3/13/2019	0.084 (J)	0.22 (J)	
3/14/2019			
8/27/2019	0.24 (J)		<0.1
8/28/2019		0.2	
10/15/2019			
10/16/2019		0.23 (J)	
10/17/2019			0.042 (J)
10/18/2019	0.086 (J)		
3/2/2020			
3/3/2020		0.056 (J)	<0.1
3/4/2020	<0.1		
3/9/2020			
8/11/2020		0.2	<0.1
8/12/2020			
8/13/2020			
8/14/2020	0.069 (J)		
9/22/2020		0.084 (J)	
9/23/2020			<0.1
9/24/2020	0.056 (J)		
3/1/2021			
3/2/2021		0.19	<0.1
3/3/2021	0.085 (J)		
3/4/2021			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
3/12/2021			
9/8/2021			
9/9/2021		0.18	0.053 (J)
9/10/2021			
9/13/2021	0.063 (J)		
1/18/2022			
1/20/2022			<0.1
1/24/2022	<0.1		
1/25/2022		0.16	
1/26/2022			
1/28/2022			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	0.1	0.18	
9/15/2022			
9/20/2022			0.076 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									1
9/1/2016							1.8	1.5	
9/2/2016	0.66	0.07 (J)	0.3						
9/7/2016						0.02 (J)			
12/6/2016									0.76
12/7/2016	0.66								
12/8/2016		0.14 (J)	0.12 (J)			0.06 (J)	1.1	1.6	
3/28/2017					0.17 (J)				1.2
3/29/2017	0.34		0.11 (J)						
3/30/2017		<0.1		0.12 (J)				0.86	
3/31/2017						<0.1	0.88		
5/12/2017				0.36	<0.1				
6/15/2017				0.21 (J)	0.02 (J)				
7/11/2017					0.02 (J)				0.7
7/12/2017	0.41	0.04 (J)		0.22 (J)					
7/13/2017			0.09 (J)			<0.1	0.84	1.1	
10/24/2017					<0.1				
10/25/2017	0.68	0.34	0.25 (J)			<0.1			1.4
10/26/2017				0.66			1	1.7	
11/15/2017					0.79				
2/27/2018					<0.1				1.3
2/28/2018	0.76	<0.1	<0.1			<0.1			
3/1/2018				0.18			1.4		
3/2/2018								1.1	
7/11/2018	1.3	<0.1				<0.1			
7/12/2018			0.13 (J)	0.25 (J)			0.96	0.65	
11/6/2018					<0.1				<0.3 (J)
11/7/2018	<0.3 (J)	<0.1	<0.1			<0.1	0.74	0.63	
11/8/2018				<0.3 (J)					
3/12/2019					0.082 (J)				0.31
3/13/2019	0.45	0.043 (J)							
3/14/2019			0.042 (J)	0.092 (J)		<0.1	1.6	1.4	
8/27/2019					<0.1				0.32
8/28/2019						<0.1			
8/29/2019	0.78	0.079 (J)	0.054 (J)	0.095 (J)			0.52	0.78	
10/15/2019					<0.1				
10/16/2019									0.32
10/17/2019	0.26 (J)	<0.1				<0.1	0.46		
10/18/2019			<0.1	0.079 (J)				0.46	
3/2/2020					<0.1				0.33
3/3/2020		<0.1	<0.1						
3/4/2020	1.5			0.075 (J)		<0.1	0.74	0.7	
8/11/2020									
8/12/2020					<0.1		0.22		0.13
8/13/2020	0.9			0.1		<0.1		0.47	
8/14/2020		<0.1	<0.1						
9/22/2020	0.15				<0.1	<0.1			0.12
9/23/2020							0.11	0.32	
9/24/2020		<0.1	<0.1	0.075 (J)					
3/1/2021					<0.1				
3/2/2021	1.4								0.15

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
3/3/2021		<0.1	<0.1	0.063 (J)		<0.1	0.71	0.67	
9/9/2021		<0.1		0.084 (J)					
9/10/2021	0.25		<0.1		<0.1		0.22	0.47	0.16
9/13/2021						<0.1			
1/20/2022		<0.1	<0.1	<0.1		<0.1			
1/21/2022	1.3						0.64		
1/24/2022					<0.1			0.59	0.19
1/25/2022									
1/26/2022									
9/13/2022						<0.1	0.47	0.43	
9/14/2022									0.27
9/15/2022	0.69	0.087 (J)							
9/16/2022			0.068 (J)						
9/19/2022					0.061 (J)				
9/20/2022				0.11					

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	0.39	0.78
8/31/2016		
9/1/2016		
9/2/2016		
9/7/2016		
12/6/2016	0.47	1.1
12/7/2016		
12/8/2016		
3/28/2017		1.1
3/29/2017	0.51	
3/30/2017		
3/31/2017		
5/12/2017		
6/15/2017		
7/11/2017	0.2 (J)	1.1
7/12/2017		
7/13/2017		
10/24/2017	0.82	1.7
10/25/2017		
10/26/2017		
11/15/2017		
2/27/2018	0.59	1.2
2/28/2018		
3/1/2018		
3/2/2018		
7/11/2018		1.3
7/12/2018		
11/6/2018	0.35	1.1
11/7/2018		
11/8/2018		
3/12/2019	0.35	0.97
3/13/2019		
3/14/2019		
8/27/2019		0.68
8/28/2019	0.098 (J)	
8/29/2019		
10/15/2019		
10/16/2019	0.14 (J)	
10/17/2019		1.2
10/18/2019		
3/2/2020		
3/3/2020	<0.1	1.4
3/4/2020		
8/11/2020		1.3
8/12/2020	0.056 (J)	
8/13/2020		
8/14/2020		
9/22/2020		0.99
9/23/2020	<0.1	
9/24/2020		
3/1/2021		
3/2/2021	0.059 (J)	0.93

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
3/3/2021		
9/9/2021		
9/10/2021		2
9/13/2021	0.069 (J)	
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	<0.1	
1/26/2022		1.2
9/13/2022		
9/14/2022		
9/15/2022	0.077 (J)	
9/16/2022		
9/19/2022		0.8
9/20/2022		

Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	8.8E-05 (J)								
9/25/2020	0.00021 (J)								
12/9/2020				5.1E-05 (J)		4.4E-05 (J)	<0.001		5.8E-05 (J)
12/17/2020			3.7E-05 (J)		<0.001				
1/11/2021			5E-05 (J)						
1/12/2021		<0.001		<0.001					5.1E-05 (J)
1/13/2021								<0.001	
3/4/2021			5.9E-05 (J)	<0.001	<0.001	<0.001	<0.001		
3/5/2021		6.5E-05 (J)							<0.001
3/8/2021	0.00018 (J)							<0.001	
4/14/2021									
4/15/2021									
9/10/2021			<0.001					<0.001	
9/13/2021	<0.001	<0.001			<0.001	<0.001			
9/14/2021				<0.001			<0.001		<0.001
1/20/2022								<0.001	
1/21/2022	<0.001								
1/24/2022				<0.001		<0.001	<0.001		<0.001
1/25/2022					<0.001				
1/26/2022		<0.001							
1/27/2022			<0.001						
6/6/2022									
9/8/2022	<0.001								
9/13/2022				<0.001					
9/14/2022						<0.001			<0.001
9/15/2022			<0.001				<0.001		
9/16/2022		<0.001			<0.001				
9/19/2022									
9/20/2022								<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	0.00032 (J)		
4/15/2021		0.00019 (J)	
9/10/2021			
9/13/2021			
9/14/2021	<0.001	<0.001	
1/20/2022	<0.001	<0.001	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			<0.001
9/8/2022			
9/13/2022			
9/14/2022	<0.001		
9/15/2022			
9/16/2022			
9/19/2022		<0.001	
9/20/2022			

Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			<0.001						
1/30/2019		<0.001		<0.001					
9/11/2019		<0.001	4.7E-05 (J)						
9/12/2019				<0.001					
9/18/2019					0.00032 (J)				
9/23/2019						0.00016 (J)			
10/21/2019		<0.001		<0.001		<0.001	0.00012 (J)		
10/22/2019			7.3E-05 (J)						
10/24/2019					<0.001				
8/13/2020		<0.001			0.0016 (J)				
8/14/2020							0.00092 (J)		
8/17/2020	0.00022 (J)					5.9E-05 (J)		0.00081 (J)	
8/19/2020									
9/24/2020		<0.001			0.00021 (J)				
9/25/2020							6.5E-05 (J)	0.00035 (J)	
9/28/2020	9.1E-05 (J)					0.00011 (J)			
3/3/2021	0.0001 (J)								
3/4/2021					0.00029 (J)		0.00017 (J)		
3/5/2021								0.012	
3/9/2021									
3/12/2021		<0.001							
9/9/2021		<0.001							
9/13/2021	<0.001							<0.001	
9/14/2021			<0.001	<0.001	<0.001	<0.001			
9/15/2021									<0.001
9/16/2021							<0.001		
1/20/2022		<0.001	<0.001		<0.001				
1/21/2022							<0.001		
1/25/2022				<0.001		<0.001			
1/26/2022									<0.001
1/27/2022	<0.001							0.0022	
9/8/2022		<0.001							
9/12/2022									<0.001
9/13/2022					<0.001		<0.001		
9/14/2022			<0.001						
9/16/2022	<0.001			<0.001		<0.001		<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98
1/28/2019			
1/30/2019			
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/21/2019			
10/22/2019			
10/24/2019			
8/13/2020			
8/14/2020			
8/17/2020			
8/19/2020	0.00012 (J)		
9/24/2020			
9/25/2020			
9/28/2020	0.00012 (J)		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	<0.001		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	<0.001	<0.001	<0.001
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.001	<0.001	<0.001
1/27/2022			
9/8/2022			
9/12/2022	<0.001		
9/13/2022		<0.001	<0.001
9/14/2022			
9/16/2022			

Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				<0.001	<0.001			<0.001	
9/1/2016						<0.001			
9/6/2016							<0.001		<0.001
9/7/2016									
12/6/2016				<0.001	<0.001			<0.001	
12/7/2016						<0.001	<0.001		0.0002 (J)
12/8/2016									
3/28/2017	<0.001	9E-05 (J)	<0.001						
3/29/2017				<0.001	<0.001	<0.001		<0.001	
3/30/2017							0.0002 (J)		0.0001 (J)
5/11/2017	<0.001								
5/12/2017			8E-05 (J)						
5/15/2017		0.0001 (J)							
6/15/2017	<0.001	0.0002 (J)							
6/16/2017			<0.001						
7/11/2017		<0.001	<0.001						
7/12/2017	<0.001			<0.001	<0.001	<0.001	<0.001	<0.001	0.0001 (J)
8/8/2017		7E-05 (J)							
10/24/2017	<0.001	<0.001	<0.001	<0.001	<0.001				
10/25/2017						<0.001		<0.001	<0.001
11/15/2017							<0.001		
2/27/2018		<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	
2/28/2018							<0.001		<0.001
3/8/2018	<0.001								
7/11/2018						<0.001		<0.001	<0.001
7/12/2018	<0.001								
11/6/2018		<0.001	<0.001	<0.001	<0.001				
11/7/2018	<0.001					<0.001	<0.001	<0.001	<0.001
8/27/2019		7.8E-05 (J)	<0.001	0.00024 (J)	0.00012 (J)	0.0001 (J)		<0.001	
8/28/2019	<0.001						<0.001		5.9E-05 (J)
9/17/2019						<0.001			
10/15/2019		<0.001	<0.001	0.00014 (J)	7.6E-05 (J)	<0.001			
10/16/2019	<0.001						<0.001	<0.001	
10/17/2019									<0.001
10/18/2019									
3/2/2020		7.4E-05 (J)	<0.001		0.00015 (J)	<0.001			
3/3/2020				0.00011 (J)			<0.001	<0.001	<0.001
3/4/2020									
3/9/2020	<0.001								
8/11/2020		0.0003 (J)	<0.001	7E-05 (J)	5.3E-05 (J)	<0.001		9.6E-05 (J)	
8/12/2020							<0.001		
8/13/2020	<0.001								0.0012 (J)
8/14/2020									
9/22/2020	<0.001	7.8E-05 (J)	<0.001		0.0001 (J)	0.00011 (J)		4.4E-05 (J)	
9/23/2020							9.8E-05 (J)		8.2E-05 (J)
9/24/2020				0.00013 (J)					
3/1/2021		<0.001	<0.001						
3/2/2021					<0.001		<0.001	8.3E-05 (J)	<0.001
3/3/2021						<0.001			
3/4/2021				9.2E-05 (J)					
3/12/2021	<0.001								
9/8/2021			<0.001						

Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
9/9/2021	<0.001	<0.001			<0.001	<0.001	<0.001	<0.001	<0.001
9/10/2021				<0.001					
9/13/2021									
1/18/2022		<0.001	<0.001						
1/20/2022									
1/24/2022									<0.001
1/25/2022					<0.001	<0.001	<0.001	<0.001	
1/26/2022				<0.001					
1/28/2022	<0.001								
9/7/2022		<0.001	<0.001						
9/8/2022	<0.001								
9/13/2022								<0.001	<0.001
9/14/2022									
9/15/2022				<0.001	<0.001	<0.001	<0.001		
9/20/2022									

Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		<0.001	
9/6/2016			
9/7/2016	<0.001		
12/6/2016			
12/7/2016		<0.001	
12/8/2016	<0.001		
3/28/2017			
3/29/2017		<0.001	
3/30/2017	0.0001 (J)		0.0001 (J)
5/11/2017			9E-05 (J)
5/12/2017			
5/15/2017			
6/15/2017			0.0001 (J)
6/16/2017			
7/11/2017			<0.001
7/12/2017	<0.001	<0.001	
8/8/2017			
10/24/2017			<0.001
10/25/2017	<0.001	<0.001	
11/15/2017			
2/27/2018			<0.001
2/28/2018	<0.001	<0.001	
3/8/2018			
7/11/2018	<0.001	<0.001	<0.001
7/12/2018			
11/6/2018			<0.001
11/7/2018	<0.001	<0.001	
8/27/2019	9E-05 (J)		6E-05 (J)
8/28/2019		0.00026 (J)	
9/17/2019			
10/15/2019			
10/16/2019		<0.001	
10/17/2019			8.6E-05 (J)
10/18/2019	7.4E-05 (J)		
3/2/2020			
3/3/2020		7E-05 (J)	<0.001
3/4/2020	0.00013 (J)		
3/9/2020			
8/11/2020		5.3E-05 (J)	6.4E-05 (J)
8/12/2020			
8/13/2020			
8/14/2020	0.00017 (J)		
9/22/2020		0.00016 (J)	
9/23/2020			9.4E-05 (J)
9/24/2020	7.9E-05 (J)		
3/1/2021			
3/2/2021		4.5E-05 (J)	0.00014 (J)
3/3/2021	0.00015 (J)		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		<0.001	<0.001
9/10/2021			
9/13/2021	<0.001		
1/18/2022			
1/20/2022			<0.001
1/24/2022	<0.001		
1/25/2022		<0.001	
1/26/2022			
1/28/2022			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	<0.001	<0.001	
9/15/2022			
9/20/2022			<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									0.0002 (J)
9/1/2016							0.0005 (J)	0.0008 (J)	
9/2/2016	<0.001	0.0002 (J)	<0.001						
9/7/2016						0.0002 (J)			
12/6/2016									0.0004 (J)
12/7/2016	<0.001								
12/8/2016		<0.001	<0.001			0.0002 (J)	<0.001	0.0019 (J)	
3/28/2017					0.0002 (J)				<0.001
3/29/2017	<0.001		<0.001						
3/30/2017		0.0004 (J)		<0.001				0.0035 (J)	
3/31/2017						0.0004 (J)	0.0009 (J)		
5/12/2017				<0.001	<0.001				
6/15/2017				<0.001	<0.001				
7/11/2017					<0.001				<0.001
7/12/2017	<0.001	0.0001 (J)		<0.001					
7/13/2017			<0.001			0.0004 (J)	0.0007 (J)	0.002 (J)	
10/24/2017					<0.001				
10/25/2017	<0.001	<0.001	<0.001			0.0002 (J)			0.0024 (J)
10/26/2017				<0.001			0.0009 (J)	0.0022 (J)	
2/27/2018					<0.001				<0.001
2/28/2018	<0.001	<0.001	<0.001			<0.001			
3/1/2018				<0.001			<0.001		
3/2/2018								<0.001	
7/11/2018	<0.001	<0.001				0.00052 (J)			
7/12/2018			<0.001	<0.001			0.001 (J)	0.0014 (J)	
11/6/2018					<0.001				<0.001
11/7/2018	<0.001	<0.001	<0.001			<0.005 (J)	<0.005 (J)	<0.005 (J)	
11/8/2018				<0.001					
8/27/2019					4.9E-05 (J)				5.1E-05 (J)
8/28/2019						0.00036 (J)			
8/29/2019	0.00015 (J)	0.00023 (J)	<0.001	6.6E-05 (J)			0.0006 (J)	0.001 (J)	
10/15/2019					0.0001 (J)				
10/16/2019									8.5E-05 (J)
10/17/2019	9.7E-05 (J)	4.6E-05 (J)				0.00026 (J)	0.0011 (J)		
10/18/2019			<0.001	<0.001				0.00095 (J)	
3/2/2020					<0.001				5.1E-05 (J)
3/3/2020		0.00015 (J)	<0.001						
3/4/2020	0.00068 (J)			<0.001		0.0001 (J)	0.00088 (J)	0.0012 (J)	
8/11/2020									
8/12/2020					<0.001		0.0004 (J)		6.3E-05 (J)
8/13/2020	0.00044 (J)			<0.001		0.0016 (J)		0.00092 (J)	
8/14/2020		<0.001	<0.001						
9/22/2020	0.00013 (J)				<0.001	0.00074 (J)			4.8E-05 (J)
9/23/2020							0.00053 (J)	0.001 (J)	
9/24/2020		0.00014 (J)	<0.001	<0.001					
3/1/2021					0.00012 (J)				
3/2/2021	0.00047 (J)								8E-05 (J)
3/3/2021		<0.001	<0.001	<0.001		0.00024 (J)	0.0007 (J)	0.0011	
9/9/2021		<0.001		<0.001					
9/10/2021	<0.001		<0.001		<0.001		<0.001	0.00099 (J)	<0.001
9/13/2021						<0.001			

Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
1/20/2022		<0.001	<0.001	<0.001		<0.001			
1/21/2022	<0.001						<0.001		
1/24/2022					<0.001			0.0011	<0.001
1/25/2022									
1/26/2022									
9/13/2022						<0.001	<0.001	0.00093 (J)	
9/14/2022									<0.001
9/15/2022	<0.001	<0.001							
9/16/2022			<0.001						
9/19/2022					<0.001				
9/20/2022				<0.001					

Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	<0.001	<0.001
8/31/2016		
9/1/2016		
9/2/2016		
9/7/2016		
12/6/2016	<0.001	<0.001
12/7/2016		
12/8/2016		
3/28/2017		<0.001
3/29/2017	0.0001 (J)	
3/30/2017		
3/31/2017		
5/12/2017		
6/15/2017		
7/11/2017	<0.001	<0.001
7/12/2017		
7/13/2017		
10/24/2017	<0.001	<0.001
10/25/2017		
10/26/2017		
2/27/2018	<0.001	<0.001
2/28/2018		
3/1/2018		
3/2/2018		
7/11/2018		<0.001
7/12/2018		
11/6/2018	<0.001	<0.001
11/7/2018		
11/8/2018		
8/27/2019		<0.001
8/28/2019	8.2E-05 (J)	
8/29/2019		
10/15/2019		
10/16/2019	0.00029 (J)	
10/17/2019		<0.001
10/18/2019		
3/2/2020		
3/3/2020	0.00023 (J)	0.00017 (J)
3/4/2020		
8/11/2020		<0.001
8/12/2020	0.0007 (J)	
8/13/2020		
8/14/2020		
9/22/2020		0.00015 (J)
9/23/2020	0.00011 (J)	
9/24/2020		
3/1/2021		
3/2/2021	0.00027 (J)	0.00028 (J)
3/3/2021		
9/9/2021		
9/10/2021		<0.001
9/13/2021	<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	<0.001	
1/26/2022		<0.001
9/13/2022		
9/14/2022		
9/15/2022	<0.001	
9/16/2022		
9/19/2022		<0.001
9/20/2022		

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	0.0013 (J)								
9/25/2020	0.0027 (J)								
12/9/2020				0.039 (J)		0.017 (J)	0.016 (J)		0.021 (J)
12/17/2020			0.012 (J)		0.0048 (J)				
1/11/2021			0.015 (J)						
1/12/2021		0.012 (J)		0.039					0.021 (J)
1/13/2021								0.016 (J)	
3/4/2021			0.014 (J)	0.038	0.0054 (J)	0.015 (J)	0.014 (J)		
3/5/2021		0.015 (J)							0.028 (J)
3/8/2021	0.0024 (J)							0.014 (J)	
4/14/2021									
4/15/2021									
9/10/2021			0.012 (J)					0.013 (J)	
9/13/2021	0.0022 (J)	0.011 (J)			0.0056 (J)	0.014 (J)			
9/14/2021				0.036			0.015 (J)		0.029 (J)
1/20/2022								0.014 (J)	
1/21/2022	0.0021 (J)								
1/24/2022				0.036		0.015 (J)	0.014 (J)		0.026 (J)
1/25/2022					0.0055 (J)				
1/26/2022		0.0098 (J)							
1/27/2022			0.013 (J)						
6/6/2022									
9/8/2022	0.0023 (J)								
9/13/2022				0.04					
9/14/2022						0.015 (J)			0.02 (J)
9/15/2022			0.013 (J)				0.016 (J)		
9/16/2022		0.011 (J)			0.0054 (J)				
9/19/2022									
9/20/2022								0.013 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	0.089		
4/15/2021		0.088	
9/10/2021			
9/13/2021			
9/14/2021	0.085	0.077	
1/20/2022	0.081	0.079	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			0.013 (J)
9/8/2022			
9/13/2022			
9/14/2022	0.082		
9/15/2022			
9/16/2022			
9/19/2022		0.076	
9/20/2022			

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			<0.03						
1/30/2019		<0.03		<0.03					
9/11/2019		0.0078 (J)	0.0064 (J)						
9/12/2019				<0.03					
9/18/2019					0.0047 (J)				
9/23/2019						0.0039 (J)			
10/21/2019		0.0078 (J)		<0.03		0.0036 (J)	0.003 (J)		
10/22/2019			0.0062 (J)						
10/24/2019					0.0036 (J)				
8/13/2020		0.0087 (J)			0.0018 (J)				
8/14/2020							0.0045 (J)		
8/17/2020	0.0056 (J)					0.0016 (J)		0.006 (J)	
8/19/2020									
9/24/2020		0.0084 (J)			0.00095 (J)				
9/25/2020							0.0018 (J)	0.0016 (J)	
9/28/2020	0.005 (J)					0.001 (J)			
3/3/2021	0.0051 (J)								
3/4/2021					0.0011 (J)		0.0024 (J)		
3/5/2021								0.029 (J)	
3/9/2021									
3/12/2021		0.0087 (J)	0.0066 (J)						
9/9/2021		0.0094 (J)							
9/13/2021	0.0055 (J)							0.0017 (J)	
9/14/2021			0.0064 (J)	<0.03	<0.03	0.001 (J)			
9/15/2021									0.012 (J)
9/16/2021							0.0021 (J)		
1/20/2022		0.0092 (J)	0.0062 (J)		<0.03				
1/21/2022							0.0022 (J)		
1/25/2022				0.00073 (J)		0.00082 (J)			
1/26/2022									0.015 (J)
1/27/2022	0.0061 (J)							0.0066 (J)	
9/8/2022		0.0085 (J)							
9/12/2022									0.015 (J)
9/13/2022					0.0021 (JD)		0.0027 (J)		
9/14/2022			0.0072 (JD)						
9/16/2022	0.0057 (J)			<0.03		0.00078 (J)		0.0021 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98
1/28/2019			
1/30/2019			
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/21/2019			
10/22/2019			
10/24/2019			
8/13/2020			
8/14/2020			
8/17/2020			
8/19/2020	0.011 (J)		
9/24/2020			
9/25/2020			
9/28/2020	0.011 (J)		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	0.012 (J)		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	0.011 (J)	0.0042 (J)	0.0012 (J)
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.013 (J)	0.0047 (J)	0.0013 (J)
1/27/2022			
9/8/2022			
9/12/2022	0.013 (J)		
9/13/2022		0.0052 (J)	0.0011 (J)
9/14/2022			
9/16/2022			

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				0.0022 (J)	0.0022 (J)			0.0031 (J)	
9/1/2016						<0.03			
9/6/2016							0.0029 (J)		0.0064 (J)
9/7/2016									
12/6/2016				<0.03	0.0027 (J)			0.0042 (J)	
12/7/2016						<0.03	0.003 (J)		0.0066 (J)
12/8/2016									
3/28/2017	0.0108 (J)	0.0054 (J)	0.0025 (J)						
3/29/2017				0.002 (J)	0.0021 (J)	<0.03		0.0041 (J)	
3/30/2017							0.0035 (J)		0.0061 (J)
5/11/2017	0.0087 (J)								
5/12/2017			0.0016 (J)						
5/15/2017		0.002 (J)							
6/15/2017	0.0088 (J)	<0.03							
6/16/2017			0.0016 (J)						
7/11/2017		<0.03	<0.03						
7/12/2017	0.0075 (J)			0.0019 (J)	0.0022 (J)	<0.03	0.0028 (J)	0.0036 (J)	0.006 (J)
8/8/2017		<0.03							
10/24/2017	0.0103 (J)	<0.03	<0.03	0.0022 (J)	0.0024 (J)				
10/25/2017						<0.03		0.0032 (J)	0.0061 (J)
11/15/2017							0.0028 (J)		
2/27/2018		<0.03	0.0013 (J)	0.0037 (J)	0.0022 (J)	0.00097 (J)		0.0035 (J)	
2/28/2018							<0.03		0.0062 (J)
3/8/2018	0.011 (J)								
7/11/2018						<0.03		0.0034 (J)	0.0058 (J)
7/12/2018	0.0084 (J)								
11/6/2018		<0.03	<0.03	<0.03	<0.03				
11/7/2018	<0.03					<0.03	<0.03	<0.03	<0.05 (O)
8/27/2019		<0.03	0.0014 (J)	0.0053 (J)	0.0023 (J)	0.0011 (J)		0.0038 (J)	
8/28/2019	0.0092 (J)						0.0033 (J)		0.0063 (J)
9/17/2019						0.0011 (J)			
10/15/2019		<0.03	0.0012 (J)	0.0051 (J)	0.0019 (J)	0.00091 (J)			
10/16/2019	0.0094 (J)						0.0029 (J)	0.0032 (J)	
10/17/2019									0.0064 (J)
10/18/2019									
3/2/2020		<0.03	0.0011 (J)		0.0023 (J)	<0.03			
3/3/2020				0.0049 (J)			0.0035 (J)	0.008 (J)	0.0059 (J)
3/4/2020									
3/9/2020	0.0077 (J)								
8/11/2020		0.0019 (J)	0.0015 (J)	0.0033 (J)	0.0028 (J)	0.0011 (J)		0.0035 (J)	
8/12/2020							0.0034 (J)		
8/13/2020	0.0085 (J)								0.0089 (J)
8/14/2020									
9/22/2020	0.0089 (J)	<0.03	0.0012 (J)		0.0019 (J)	<0.03		0.0038 (J)	
9/23/2020							0.0033 (J)		0.006 (J)
9/24/2020				0.0049 (J)					
3/1/2021		<0.03	0.0012 (J)						
3/2/2021					0.0017 (J)		0.0033 (J)	0.004 (J)	0.0051 (J)
3/3/2021						<0.03			
3/4/2021				0.0042 (J)					
3/12/2021	0.0083 (J)								
9/8/2021			0.0013 (J)						

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
9/9/2021	0.0091 (J)	<0.03			0.0029 (J)	<0.03	0.0036 (J)	0.0044 (J)	0.0057 (J)
9/10/2021				0.0051 (J)					
9/13/2021									
1/18/2022		<0.03	0.0013 (J)						
1/20/2022									
1/24/2022									0.0051 (J)
1/25/2022					0.0021 (J)	<0.03	0.0037 (J)	0.0043 (J)	
1/26/2022				0.0059 (J)					
1/28/2022	0.0091 (J)								
9/7/2022		<0.03	0.0012 (J)						
9/8/2022	0.0083 (J)								
9/13/2022								0.0043 (J)	0.0057 (J)
9/14/2022									
9/15/2022				0.0053 (J)	0.0024 (J)	0.00088 (J)	0.004 (J)		
9/20/2022									

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0034 (J)	
9/6/2016			
9/7/2016	<0.03		
12/6/2016			
12/7/2016		0.0034 (J)	
12/8/2016	<0.03		
3/28/2017			
3/29/2017		0.0031 (J)	
3/30/2017	<0.03		0.0807
5/11/2017			0.085
5/12/2017			
5/15/2017			
6/15/2017			0.0781
6/16/2017			
7/11/2017			0.0731
7/12/2017	<0.03	0.0032 (J)	
8/8/2017			
10/24/2017			0.0995
10/25/2017	<0.03	0.0031 (J)	
11/15/2017			
2/27/2018			0.0875
2/28/2018	<0.03	0.0031 (J)	
3/8/2018			
7/11/2018	<0.03	0.0034 (J)	0.033 (J)
7/12/2018			
11/6/2018			<0.03
11/7/2018	<0.03	<0.03	
8/27/2019	0.00089 (J)		0.032
8/28/2019		0.0032 (J)	
9/17/2019			
10/15/2019			
10/16/2019		0.0026 (J)	
10/17/2019			0.029 (J)
10/18/2019	0.00096 (J)		
3/2/2020			
3/3/2020		0.0034 (J)	0.026 (J)
3/4/2020	0.0011 (J)		
3/9/2020			
8/11/2020		0.0031 (J)	0.028 (J)
8/12/2020			
8/13/2020			
8/14/2020	0.0015 (J)		
9/22/2020		0.0034 (J)	
9/23/2020			0.022 (J)
9/24/2020	0.00096 (J)		
3/1/2021			
3/2/2021		0.003 (J)	0.023 (J)
3/3/2021	0.0011 (J)		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.0035 (J)	0.024 (J)
9/10/2021			
9/13/2021	<0.03		
1/18/2022			
1/20/2022			0.024 (J)
1/24/2022	<0.03		
1/25/2022		0.0031 (J)	
1/26/2022			
1/28/2022			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	<0.03	0.0032 (J)	
9/15/2022			
9/20/2022			0.021 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									0.0026 (J)
9/1/2016							0.0854	0.125	
9/2/2016	0.0021 (J)	0.0057 (J)	0.0046 (J)						
9/7/2016						0.012 (J)			
12/6/2016									0.0046 (J)
12/7/2016	0.005 (J)								
12/8/2016		0.0054 (J)	0.0047 (J)			0.0118 (J)	0.0667	0.122	
3/28/2017					0.0031 (J)				0.0028 (J)
3/29/2017	0.0021 (J)		0.0043 (J)						
3/30/2017		0.0065 (J)		0.0162 (J)				0.144	
3/31/2017						0.0119 (J)	0.0767		
5/12/2017				0.0036 (J)	0.0027 (J)				
6/15/2017				0.0063 (J)	0.0025 (J)				
7/11/2017					0.0022 (J)				0.0031 (J)
7/12/2017	0.0019 (J)	0.0057 (J)		0.0068 (J)					
7/13/2017			0.0044 (J)			0.0116 (J)	0.0743	0.143	
10/24/2017					0.0024 (J)				
10/25/2017	0.0022 (J)	0.006 (J)	0.0042 (J)			0.0122 (J)			0.0055 (J)
10/26/2017				0.0049 (J)			0.071	0.115	
2/27/2018					0.0027 (J)				0.0066 (J)
2/28/2018	0.0019 (J)	0.0061 (J)	0.0043 (J)			0.0122 (J)			
3/1/2018				0.0759			0.0772		
3/2/2018								0.129	
7/11/2018	0.0022 (J)	0.0057 (J)				0.01 (J)			
7/12/2018			0.0036 (J)	0.0047 (J)			0.073	0.12	
11/6/2018					<0.03				<0.03
11/7/2018	<0.03	<0.03	<0.03			<0.03	0.082	0.12	
11/8/2018				<0.03					
8/27/2019					0.0033 (J)				0.008 (J)
8/28/2019						0.01 (J)			
8/29/2019	0.0093 (J)	0.0061 (J)	0.0035 (J)	0.0017 (J)			0.056	0.11	
10/15/2019					0.0029 (J)				
10/16/2019									0.006 (J)
10/17/2019	0.0075 (J)	0.0063 (J)				0.011 (J)	0.066		
10/18/2019			0.0041 (J)	0.0039 (J)				0.11	
3/2/2020					0.0035 (J)				0.0079 (J)
3/3/2020		0.0065 (J)	0.0046 (J)						
3/4/2020	0.019 (J)			0.004 (J)		0.0091 (J)	0.063	0.12	
8/11/2020									
8/12/2020					0.0031 (J)		0.054		0.0067 (J)
8/13/2020	0.012 (J)			0.0052 (J)		0.011 (J)		0.098	
8/14/2020		0.0058 (J)	0.0039 (J)						
9/22/2020	0.0026 (J)				0.0026 (J)	0.0099 (J)			0.0065 (J)
9/23/2020							0.046	0.1	
9/24/2020		0.0062 (J)	0.0037 (J)	0.0045 (J)					
3/1/2021					0.0035 (J)				
3/2/2021	0.011 (J)								0.0064 (J)
3/3/2021		0.0054 (J)	0.0038 (J)	0.014 (J)		0.0079 (J)	0.049	0.096	
9/9/2021		0.006 (J)		0.0081 (J)					
9/10/2021	0.0023 (J)		0.0039 (J)		0.0035 (J)		0.053	0.095	0.0071 (J)
9/13/2021						0.015 (J)			

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
1/20/2022		0.0058 (J)	0.0032 (J)	0.0029 (J)		0.0069 (J)			
1/21/2022	0.012 (J)						0.055		
1/24/2022					0.0038 (J)			0.11	0.0068 (J)
1/25/2022									
1/26/2022									
9/13/2022						0.0091 (J)	0.05	0.099	
9/14/2022									0.0081 (J)
9/15/2022	0.0096 (J)	0.0069 (J)							
9/16/2022			0.0033 (J)						
9/19/2022					0.0037 (J)				
9/20/2022				0.0051 (J)					

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	0.005 (J)	0.0212 (J)
8/31/2016		
9/1/2016		
9/2/2016		
9/7/2016		
12/6/2016	0.0066 (J)	0.0242 (J)
12/7/2016		
12/8/2016		
3/28/2017		0.0249 (J)
3/29/2017	0.0059 (J)	
3/30/2017		
3/31/2017		
5/12/2017		
6/15/2017		
7/11/2017	0.0045 (J)	0.022 (J)
7/12/2017		
7/13/2017		
10/24/2017	0.0072 (J)	0.0281 (J)
10/25/2017		
10/26/2017		
2/27/2018	0.0075 (J)	0.031 (J)
2/28/2018		
3/1/2018		
3/2/2018		
7/11/2018		0.028 (J)
7/12/2018		
11/6/2018	<0.03	<0.03
11/7/2018		
11/8/2018		
8/27/2019		0.031
8/28/2019	0.0048 (J)	
8/29/2019		
10/15/2019		
10/16/2019	0.0045 (J)	
10/17/2019		0.029 (J)
10/18/2019		
3/2/2020		
3/3/2020	0.0052 (J)	0.028 (J)
3/4/2020		
8/11/2020		0.032
8/12/2020	0.0058 (J)	
8/13/2020		
8/14/2020		
9/22/2020		0.025 (J)
9/23/2020	0.0045 (J)	
9/24/2020		
3/1/2021		
3/2/2021	0.0046 (J)	0.028 (J)
3/3/2021		
9/9/2021		
9/10/2021		0.027 (J)
9/13/2021	0.0034 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	0.0032 (J)	
1/26/2022		0.029 (J)
9/13/2022		
9/14/2022		
9/15/2022	0.0039 (J)	
9/16/2022		
9/19/2022		0.023 (J)
9/20/2022		

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	0.00011 (J)								
9/25/2020	<0.0002								
12/9/2020				7.9E-05 (J)		0.00016 (J)	0.00014 (J)		9.4E-05 (J)
12/17/2020			<0.0002		<0.0002				
1/11/2021			<0.0002						
1/12/2021		<0.0002		<0.0002					<0.0002
1/13/2021								<0.0002	
3/4/2021			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
3/5/2021		0.00014 (J)							<0.0002
3/8/2021								<0.0002	
4/14/2021									
4/15/2021									
9/10/2021			<0.0002					<0.0002	
9/13/2021	<0.0002	<0.0002			<0.0002	<0.0002			
9/14/2021				<0.0002			<0.0002		<0.0002
1/20/2022								<0.0002	
1/21/2022	<0.0002								
1/24/2022				<0.0002		<0.0002	<0.0002		<0.0002
1/25/2022					<0.0002				
1/26/2022		<0.0002							
1/27/2022			<0.0002						
6/6/2022									
9/8/2022	<0.0002								
9/13/2022				<0.0002					
9/14/2022						<0.0002			<0.0002
9/15/2022			<0.0002				<0.0002		
9/16/2022		<0.0002			<0.0002				
9/19/2022									
9/20/2022								<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	<0.0002		
4/15/2021		<0.0002	
9/10/2021			
9/13/2021			
9/14/2021	<0.0002	<0.0002	
1/20/2022	<0.0002	<0.0002	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			<0.0002
9/8/2022			
9/13/2022			
9/14/2022	<0.0002		
9/15/2022			
9/16/2022			
9/19/2022		<0.0002	
9/20/2022			

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			<0.0002						
1/30/2019		<0.0002		<0.0002					
9/11/2019		<0.0002	<0.0002						
9/12/2019				<0.0002					
9/18/2019					<0.0002				
9/23/2019						<0.0002			
10/21/2019		<0.0002		<0.0002		<0.0002	<0.0002		
10/22/2019			<0.0002						
10/24/2019					<0.0002				
8/13/2020		<0.0002			<0.0002				
8/14/2020							<0.0002		
8/17/2020	0.00016 (J)					0.00011 (J)		0.00011 (J)	
8/19/2020									
9/24/2020		<0.0002			<0.0002				
9/25/2020							<0.0002	<0.0002	
9/28/2020	<0.0002					<0.0002			
3/3/2021	<0.0002								
3/4/2021					<0.0002		<0.0002		
3/5/2021								0.0001 (J)	
3/9/2021									
3/12/2021		<0.0002							
9/9/2021		<0.0002							
9/13/2021	<0.0002							<0.0002	
9/14/2021			<0.0002	<0.0002	<0.0002	<0.0002			
9/15/2021									0.00017 (J)
9/16/2021							<0.0002		
1/20/2022		<0.0002	<0.0002		<0.0002				
1/21/2022							<0.0002		
1/25/2022				<0.0002		<0.0002			
1/26/2022									<0.0002
1/27/2022	<0.0002							<0.0002	
9/8/2022		<0.0002							
9/12/2022									0.00015 (J)
9/13/2022					<0.0002		<0.0002		
9/14/2022			<0.0002						
9/16/2022	<0.0002			<0.0002		<0.0002		<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98
1/28/2019			
1/30/2019			
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/21/2019			
10/22/2019			
10/24/2019			
8/13/2020			
8/14/2020			
8/17/2020			
8/19/2020	0.00026		
9/24/2020			
9/25/2020			
9/28/2020	0.00024 (J)		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	0.00015 (J)		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	9.8E-05 (J)	<0.0002	<0.0002
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.0002	<0.0002	<0.0002
1/27/2022			
9/8/2022			
9/12/2022	0.00016 (J)		
9/13/2022		<0.0002	<0.0002
9/14/2022			
9/16/2022			

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				7E-05 (J)	5E-05 (J)			5E-05 (J)	
9/1/2016						9E-05 (J)			
9/6/2016							<0.0002		<0.0002
9/7/2016									
12/6/2016				9E-05 (J)	8E-05 (J)			8E-05 (J)	
12/7/2016						<0.0002	9E-05 (J)		<0.0002
12/8/2016									
3/28/2017	<0.0002	<0.0002	<0.0002						
3/29/2017				8E-05 (J)	6E-05 (J)	0.00014 (J)		6E-05 (J)	
3/30/2017							7E-05 (J)		6E-05 (J)
5/11/2017	<0.0002								
5/12/2017			6E-05 (J)						
5/15/2017		<0.0002							
6/15/2017	8E-05 (J)	7E-05 (J)							
6/16/2017			7E-05 (J)						
7/11/2017		<0.0002	<0.0002						
7/12/2017	<0.0002			<0.0002	<0.0002	8E-05 (J)	<0.0002	<0.0002	<0.0002
8/8/2017		<0.0002							
10/24/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				
10/25/2017						6E-05 (J)		<0.0002	<0.0002
11/15/2017							<0.0002		
2/27/2018		<0.0002	<0.0002	<0.0002	<0.0002	6E-05 (J)		<0.0002	
2/28/2018							<0.0002		<0.0002
3/8/2018	<0.0002								
7/11/2018						3.6E-05 (J)		<0.0002	<0.0002
7/12/2018	<0.0002								
11/6/2018		<0.0002	<0.0002	<0.0002	<0.0002				
11/7/2018	<0.0002					<0.0002	<0.0002	<0.0002	<0.0002
8/27/2019		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
8/28/2019	<0.0002						<0.0002		<0.0002
9/17/2019						<0.0002			
10/15/2019		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
10/16/2019	<0.0002						<0.0002	<0.0002	
10/17/2019									<0.0002
10/18/2019									
3/2/2020		<0.0002	<0.0002		<0.0002	<0.0002			
3/3/2020				<0.0002			<0.0002	<0.0002	<0.0002
3/4/2020									
3/9/2020	<0.0002								
8/11/2020		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
8/12/2020							<0.0002		
8/13/2020	<0.0002								<0.0002
8/14/2020									
9/22/2020	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002	
9/23/2020							<0.0002		<0.0002
9/24/2020				8.1E-05 (J)					
3/1/2021		<0.0002	9E-05 (J)						
3/2/2021					<0.0002		<0.0002	<0.0002	<0.0002
3/3/2021						<0.0002			
3/4/2021				<0.0002					
3/12/2021	<0.0002								
9/8/2021			9.6E-05 (J)						

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
9/9/2021	<0.0002	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/10/2021				<0.0002					
9/13/2021									
1/18/2022		<0.0002	0.00015 (J)						
1/20/2022									
1/24/2022									<0.0002
1/25/2022					<0.0002	<0.0002	<0.0002	<0.0002	
1/26/2022				<0.0002					
1/28/2022	<0.0002								
9/7/2022		<0.0002	0.00013 (J)						
9/8/2022	<0.0002								
9/13/2022								<0.0002	<0.0002
9/14/2022									
9/15/2022				<0.0002	<0.0002	<0.0002	<0.0002		
9/20/2022									

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		4E-05 (J)	
9/6/2016			
9/7/2016	6E-05 (J)		
12/6/2016			
12/7/2016		5E-05 (J)	
12/8/2016	<0.0002		
3/28/2017			
3/29/2017		9E-05 (J)	
3/30/2017	0.00012 (J)		7E-05 (J)
5/11/2017			8.3E-05 (J)
5/12/2017			
5/15/2017			
6/15/2017			8E-05 (J)
6/16/2017			
7/11/2017			<0.0002
7/12/2017	5E-05 (J)	<0.0002	
8/8/2017			
10/24/2017			<0.0002
10/25/2017	5E-05 (J)	<0.0002	
11/15/2017			
2/27/2018			<0.0002
2/28/2018	<0.0002	<0.0002	
3/8/2018			
7/11/2018	<0.0002	<0.0002	<0.0002
7/12/2018			
11/6/2018			0.00064
11/7/2018	<0.0002	<0.0002	
8/27/2019	0.00016 (J)		<0.0002
8/28/2019		<0.0002	
9/17/2019			
10/15/2019			
10/16/2019		<0.0002	
10/17/2019			<0.0002
10/18/2019	<0.0002		
3/2/2020			
3/3/2020		<0.0002	<0.0002
3/4/2020	<0.0002		
3/9/2020			
8/11/2020		<0.0002	<0.0002
8/12/2020			
8/13/2020			
8/14/2020	9.8E-05 (J)		
9/22/2020		<0.0002	
9/23/2020			<0.0002
9/24/2020	8.2E-05 (J)		
3/1/2021			
3/2/2021		<0.0002	<0.0002
3/3/2021	<0.0002		
3/4/2021			
3/12/2021			
9/8/2021			

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Constituent: Mercury (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		<0.0002	<0.0002
9/10/2021			
9/13/2021	8.6E-05 (J)		
1/18/2022			
1/20/2022			<0.0002
1/24/2022	<0.0002		
1/25/2022		<0.0002	
1/26/2022			
1/28/2022			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	<0.0002	<0.0002	
9/15/2022			
9/20/2022			<0.0002

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Constituent: Mercury (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									0.00015 (J)
9/1/2016							<0.0002	<0.0002	
9/2/2016	<0.0002	6E-05 (J)	5E-05 (J)						
9/7/2016						<0.0002			
12/6/2016									0.00012 (J)
12/7/2016	8E-05 (J)								
12/8/2016		<0.0002	<0.0002			<0.0002	<0.0002	<0.0002	
3/28/2017					<0.0002				0.00017 (J)
3/29/2017	8E-05 (J)		0.0001 (J)						
3/30/2017		8E-05 (J)		0.0002 (J)				6E-05 (J)	
3/31/2017						4E-05 (J)	<0.0002		
5/12/2017				0.00015 (J)	8.2E-05 (J)				
6/15/2017				0.00019 (J)	8E-05 (J)				
7/11/2017					<0.0002				0.0002 (J)
7/12/2017	<0.0002	6E-05 (J)		0.00012 (J)					
7/13/2017			<0.0002			<0.0002	<0.0002	<0.0002	
10/24/2017					<0.0002				
10/25/2017	<0.0002	5E-05 (J)	<0.0002			<0.0002			9E-05 (J)
10/26/2017				0.00012 (J)			<0.0002	<0.0002	
2/27/2018					<0.0002				9E-05 (J)
2/28/2018	<0.0002	<0.0002	<0.0002			<0.0002			
3/1/2018				<0.0002			<0.0002		
3/2/2018								<0.0002	
7/11/2018	<0.0002	<0.0002				<0.0002			
7/12/2018			5.5E-05 (J)	0.00016 (J)			<0.0002	<0.0002	
11/6/2018					0.00059				0.00055
11/7/2018	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002	<0.0002	
11/8/2018				<0.0002					
8/27/2019					<0.0002				0.00016 (J)
8/28/2019						<0.0002			
8/29/2019	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002	
10/15/2019					<0.0002				
10/16/2019									<0.0002
10/17/2019	<0.0002	<0.0002				<0.0002	<0.0002		
10/18/2019			<0.0002	<0.0002				<0.0002	
3/2/2020					<0.0002				<0.0002
3/3/2020		<0.0002	<0.0002						
3/4/2020	<0.0002			0.00026		<0.0002	<0.0002	<0.0002	
8/11/2020									
8/12/2020					<0.0002		<0.0002		0.00017 (J)
8/13/2020	<0.0002			0.00014 (J)		<0.0002		<0.0002	
8/14/2020		<0.0002	<0.0002						
9/22/2020	<0.0002				<0.0002	<0.0002			0.0002 (J)
9/23/2020							<0.0002	<0.0002	
9/24/2020		0.00012 (J)	<0.0002	0.0002 (J)					
3/1/2021					<0.0002				
3/2/2021	9E-05 (J)								9.4E-05 (J)
3/3/2021		<0.0002	<0.0002	0.00033		<0.0002	<0.0002	<0.0002	
9/9/2021		<0.0002		0.00011 (J)					
9/10/2021	<0.0002		0.00011 (J)		0.00013 (J)		<0.0002	<0.0002	0.0003
9/13/2021						<0.0002			

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
1/20/2022		<0.0002	<0.0002	<0.0002		<0.0002			
1/21/2022	<0.0002						<0.0002		
1/24/2022					0.00022			<0.0002	0.00028
1/25/2022									
1/26/2022									
9/13/2022						<0.0002	<0.0002	<0.0002	
9/14/2022									0.00022
9/15/2022	<0.0002	<0.0002							
9/16/2022			<0.0002						
9/19/2022					<0.0002				
9/20/2022				<0.0002					

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Constituent: Mercury (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	9E-05 (J)	<0.0002
8/31/2016		
9/1/2016		
9/2/2016		
9/7/2016		
12/6/2016	0.0001 (J)	5E-05 (J)
12/7/2016		
12/8/2016		
3/28/2017		<0.0002
3/29/2017	0.00012 (J)	
3/30/2017		
3/31/2017		
5/12/2017		
6/15/2017		
7/11/2017	6E-05 (J)	<0.0002
7/12/2017		
7/13/2017		
10/24/2017	<0.0002	<0.0002
10/25/2017		
10/26/2017		
2/27/2018	4.2E-05 (J)	4.2E-05 (J)
2/28/2018		
3/1/2018		
3/2/2018		
7/11/2018		<0.0002
7/12/2018		
11/6/2018	<0.0002	<0.0002
11/7/2018		
11/8/2018		
8/27/2019		0.00021 (J)
8/28/2019	<0.0002	
8/29/2019		
10/15/2019		
10/16/2019	<0.0002	
10/17/2019		0.00042 (J)
10/18/2019		
3/2/2020		
3/3/2020	<0.0002	<0.0002
3/4/2020		
8/11/2020		0.00026
8/12/2020	7.9E-05 (J)	
8/13/2020		
8/14/2020		
9/22/2020		0.00013 (J)
9/23/2020	<0.0002	
9/24/2020		
3/1/2021		
3/2/2021	<0.0002	0.00017 (J)
3/3/2021		
9/9/2021		
9/10/2021		0.00014 (J)
9/13/2021	<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	<0.0002	
1/26/2022		0.00014 (J)
9/13/2022		
9/14/2022		
9/15/2022	<0.0002	
9/16/2022		
9/19/2022		0.0002
9/20/2022		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	<0.01								
9/25/2020	<0.01								
12/9/2020				0.0012 (J)		<0.01	<0.01		0.0055 (J)
12/17/2020			<0.01		<0.01				
1/11/2021			<0.01						
1/12/2021		0.0022 (J)		<0.01					0.0054 (J)
1/13/2021								0.0022 (J)	
3/4/2021			<0.01	<0.01	<0.01	<0.01	<0.01		
3/5/2021		<0.01							0.0067 (J)
3/8/2021	<0.01							0.0014 (J)	
4/14/2021									
4/15/2021									
9/10/2021			<0.01					0.0011 (J)	
9/13/2021	<0.01	<0.01			<0.01	<0.01			
9/14/2021				<0.01			<0.01		0.013
1/20/2022								0.0012 (J)	
1/21/2022	<0.01								
1/24/2022				0.00083 (J)		<0.01	<0.01		0.0052 (J)
1/25/2022					<0.01				
1/26/2022		<0.01							
1/27/2022			<0.01						
6/6/2022									
9/8/2022	<0.01								
9/13/2022				<0.01					
9/14/2022						<0.01			0.0069 (J)
9/15/2022			0.0015 (J)				<0.01		
9/16/2022		<0.01			<0.01				
9/19/2022									
9/20/2022								0.0014 (J)	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	<0.01		
4/15/2021		0.00089 (J)	
9/10/2021			
9/13/2021			
9/14/2021	<0.01	<0.01	
1/20/2022	<0.01	<0.01	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			<0.01
9/8/2022			
9/13/2022			
9/14/2022	<0.01		
9/15/2022			
9/16/2022			
9/19/2022		<0.01	
9/20/2022			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			<0.01						
1/30/2019		<0.01		<0.01					
9/11/2019		<0.01	<0.01						
9/12/2019				0.0018 (J)					
9/18/2019					<0.01				
9/23/2019						<0.01			
10/21/2019		<0.01		0.0015 (J)		<0.01	<0.01		
10/22/2019			<0.01						
10/24/2019					<0.01				
8/13/2020		<0.01			<0.01				
8/14/2020							<0.01		
8/17/2020	<0.01					<0.01		0.0012 (J)	
8/19/2020									
9/24/2020		<0.01			<0.01				
9/25/2020							<0.01	0.0012 (J)	
9/28/2020	<0.01					<0.01			
3/3/2021	<0.01								
3/4/2021					<0.01		<0.01		
3/5/2021								<0.01	
3/9/2021									
3/12/2021		<0.01							
9/9/2021		<0.01							
9/13/2021	<0.01							<0.01	
9/14/2021			<0.01	<0.01	<0.01	<0.01			
9/15/2021									<0.01
9/16/2021							<0.01		
1/20/2022		<0.01	<0.01		<0.01				
1/21/2022							<0.01		
1/25/2022				<0.01		<0.01			
1/26/2022									<0.01
1/27/2022	<0.01							<0.01	
9/8/2022		<0.01							
9/12/2022									<0.01
9/13/2022					<0.01		<0.01		
9/14/2022			<0.01						
9/16/2022	<0.01			<0.01		<0.01		<0.01	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98
1/28/2019			
1/30/2019			
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/21/2019			
10/22/2019			
10/24/2019			
8/13/2020			
8/14/2020			
8/17/2020			
8/19/2020	<0.01		
9/24/2020			
9/25/2020			
9/28/2020	<0.01		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	<0.01		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	<0.01	<0.01	<0.01
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.01	<0.01	0.0015 (J)
1/27/2022			
9/8/2022			
9/12/2022	<0.01		
9/13/2022		<0.01	0.00084 (J)
9/14/2022			
9/16/2022			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				<0.01	<0.01			<0.01	
9/1/2016						<0.01			
9/6/2016							0.0371		<0.01
9/7/2016									
12/6/2016				<0.01	<0.01			<0.01	
12/7/2016						<0.01	0.0273		<0.01
12/8/2016									
3/28/2017	0.0242	<0.01	0.0009 (J)						
3/29/2017				<0.01	<0.01	<0.01		<0.01	
3/30/2017							0.03		<0.01
5/11/2017	0.0375								
5/12/2017			<0.01						
5/15/2017		<0.01							
6/15/2017	0.0409	<0.01							
6/16/2017			<0.01						
7/11/2017		<0.01	<0.01						
7/12/2017	0.0321			<0.01	<0.01	<0.01	0.0323	<0.01	<0.01
8/8/2017		<0.01							
10/24/2017	0.0227	<0.01	<0.01	<0.01	<0.01				
10/25/2017						<0.01		<0.01	<0.01
11/15/2017							0.0275		
2/27/2018		<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	
2/28/2018							0.0093 (J)		<0.01
3/8/2018	0.035								
7/11/2018						<0.01		<0.01	<0.01
7/12/2018	0.034								
11/6/2018		<0.01	<0.01	<0.01	<0.01				
11/7/2018	0.029					<0.01	0.018	<0.01	<0.01
8/27/2019		<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	
8/28/2019	0.031						0.015		<0.01
9/17/2019						<0.01			
10/15/2019		<0.01	<0.01	<0.01	<0.01	<0.01			
10/16/2019	0.037						0.014	<0.01	
10/17/2019									<0.01
10/18/2019									
3/2/2020		<0.01	<0.01		<0.01	<0.01			
3/3/2020				<0.01			0.018	<0.01	<0.01
3/4/2020									
3/9/2020	0.026								
8/11/2020		<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	
8/12/2020							0.012		
8/13/2020	0.012								<0.01
8/14/2020									
9/22/2020	0.039	<0.01	<0.01		<0.01	<0.01		<0.01	
9/23/2020							0.012		<0.01
9/24/2020				<0.01					
3/1/2021		<0.01	<0.01						
3/2/2021					<0.01		0.011	<0.01	<0.01
3/3/2021						<0.01			
3/4/2021				<0.01					
3/12/2021	0.018								
9/8/2021			<0.01						

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
9/9/2021	0.025	<0.01			<0.01	<0.01	0.011	<0.01	<0.01
9/10/2021				<0.01					
9/13/2021									
1/18/2022		<0.01	<0.01						
1/20/2022									
1/24/2022									<0.01
1/25/2022					<0.01	<0.01	0.0093 (J)	<0.01	
1/26/2022				<0.01					
1/28/2022	0.026								
9/7/2022		<0.01	<0.01						
9/8/2022	0.027								
9/13/2022								<0.01	<0.01
9/14/2022									
9/15/2022				<0.01	<0.01	<0.01	0.0094 (J)		
9/20/2022									

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		<0.01	
9/6/2016			
9/7/2016	<0.01		
12/6/2016			
12/7/2016		<0.01	
12/8/2016	<0.01		
3/28/2017			
3/29/2017		<0.01	
3/30/2017	<0.01		0.0009 (J)
5/11/2017			0.0009 (J)
5/12/2017			
5/15/2017			
6/15/2017			<0.01
6/16/2017			
7/11/2017			<0.01
7/12/2017	<0.01	<0.01	
8/8/2017			
10/24/2017			<0.01
10/25/2017	<0.01	<0.01	
11/15/2017			
2/27/2018			<0.01
2/28/2018	<0.01	<0.01	
3/8/2018			
7/11/2018	<0.01	<0.01	<0.01
7/12/2018			
11/6/2018			<0.01
11/7/2018	<0.01	<0.01	
8/27/2019	<0.01		0.002 (J)
8/28/2019		<0.01	
9/17/2019			
10/15/2019			
10/16/2019		<0.01	
10/17/2019			0.0018 (J)
10/18/2019	<0.01		
3/2/2020			
3/3/2020		<0.01	0.0022 (J)
3/4/2020	<0.01		
3/9/2020			
8/11/2020		<0.01	0.002 (J)
8/12/2020			
8/13/2020			
8/14/2020	<0.01		
9/22/2020		<0.01	
9/23/2020			0.0022 (J)
9/24/2020	<0.01		
3/1/2021			
3/2/2021		<0.01	0.0021 (J)
3/3/2021	<0.01		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		<0.01	0.0023 (J)
9/10/2021			
9/13/2021	<0.01		
1/18/2022			
1/20/2022			0.0022 (J)
1/24/2022	<0.01		
1/25/2022		<0.01	
1/26/2022			
1/28/2022			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	<0.01	<0.01	
9/15/2022			
9/20/2022			0.0021 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									<0.01
9/1/2016							<0.01	<0.01	
9/2/2016	<0.01	<0.01	<0.01						
9/7/2016						<0.01			
12/6/2016									<0.01
12/7/2016	<0.01								
12/8/2016		<0.01	<0.01			<0.01	<0.01	<0.01	
3/28/2017					0.008 (J)				<0.01
3/29/2017	<0.01		<0.01						
3/30/2017		<0.01		0.0084 (J)				<0.01	
3/31/2017						<0.01	<0.01		
5/12/2017				0.0085 (J)	0.0062 (J)				
6/15/2017				0.0104	0.0044 (J)				
7/11/2017					0.0041 (J)				<0.01
7/12/2017	<0.01	<0.01		0.0092 (J)					
7/13/2017			<0.01			<0.01	<0.01	<0.01	
10/24/2017					0.0072 (J)				
10/25/2017	<0.01	<0.01	<0.01			<0.01			<0.01
10/26/2017				0.0077 (J)			<0.01	<0.01	
2/27/2018					0.0069 (J)				<0.01
2/28/2018	<0.01	<0.01	<0.01			<0.01			
3/1/2018				0.0045 (J)			<0.01		
3/2/2018								<0.01	
7/11/2018	<0.01	<0.01				<0.01			
7/12/2018			<0.01	0.012			<0.01	<0.01	
11/6/2018					<0.01 (J)				<0.01
11/7/2018	<0.01	<0.01	<0.01			<0.01	<0.01	<0.01	
11/8/2018				0.012					
8/27/2019					0.0065 (J)				<0.01
8/28/2019						<0.01			
8/29/2019	<0.01	<0.01	<0.01	0.014			<0.01	<0.01	
10/15/2019					0.0061 (J)				
10/16/2019									<0.01
10/17/2019	<0.01	<0.01				<0.01	<0.01		
10/18/2019			<0.01	0.0091 (J)				<0.01	
3/2/2020					0.0059 (J)				<0.01
3/3/2020		<0.01	<0.01						
3/4/2020	<0.01			0.0047 (J)		<0.01	<0.01	<0.01	
8/11/2020									
8/12/2020					0.0057 (J)		<0.01		<0.01
8/13/2020	<0.01			0.013		<0.01		<0.01	
8/14/2020		<0.01	<0.01						
9/22/2020	<0.01				0.0028 (J)	<0.01			<0.01
9/23/2020							<0.01	<0.01	
9/24/2020		<0.01	<0.01	0.0088 (J)					
3/1/2021					0.0051 (J)				
3/2/2021	<0.01								<0.01
3/3/2021		<0.01	<0.01	0.0026 (J)		<0.01	<0.01	<0.01	
9/9/2021		<0.01		0.01					
9/10/2021	<0.01		<0.01		0.0052 (J)		<0.01	<0.01	<0.01
9/13/2021						<0.01			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
1/20/2022		<0.01	<0.01	0.0073 (J)		<0.01			
1/21/2022	<0.01						<0.01		
1/24/2022					0.0045 (J)			<0.01	<0.01
1/25/2022									
1/26/2022									
9/13/2022						<0.01	<0.01	<0.01	
9/14/2022									<0.01
9/15/2022	<0.01	<0.01							
9/16/2022			<0.01						
9/19/2022					0.0037 (J)				
9/20/2022				0.0095 (J)					

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	<0.01	<0.01
8/31/2016		
9/1/2016		
9/2/2016		
9/7/2016		
12/6/2016	<0.01	<0.01
12/7/2016		
12/8/2016		
3/28/2017		<0.01
3/29/2017	<0.01	
3/30/2017		
3/31/2017		
5/12/2017		
6/15/2017		
7/11/2017	<0.01	<0.01
7/12/2017		
7/13/2017		
10/24/2017	<0.01	<0.01
10/25/2017		
10/26/2017		
2/27/2018	<0.01	<0.01
2/28/2018		
3/1/2018		
3/2/2018		
7/11/2018		<0.01
7/12/2018		
11/6/2018	<0.01	<0.01
11/7/2018		
11/8/2018		
8/27/2019		<0.01
8/28/2019	<0.01	
8/29/2019		
10/15/2019		
10/16/2019	<0.01	
10/17/2019		<0.01
10/18/2019		
3/2/2020		
3/3/2020	<0.01	<0.01
3/4/2020		
8/11/2020		<0.01
8/12/2020	<0.01	
8/13/2020		
8/14/2020		
9/22/2020		<0.01
9/23/2020	<0.01	
9/24/2020		
3/1/2021		
3/2/2021	<0.01	<0.01
3/3/2021		
9/9/2021		
9/10/2021		<0.01
9/13/2021	<0.01	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	<0.01	
1/26/2022		<0.01
9/13/2022		
9/14/2022		
9/15/2022	<0.01	
9/16/2022		
9/19/2022		<0.01
9/20/2022		

Time Series

Constituent: pH, Field (SU) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/3/2020	4.93								
8/17/2020	5.02								
9/25/2020	5.53								
12/9/2020				6.44		5.91	5.94		6.64
12/17/2020			5.39		5.82				
1/11/2021			5.55						
1/12/2021		5.26		6.24					6.71
1/13/2021								6.42	
3/4/2021			5.43	6.27	5.85	5.97	5.88		
3/5/2021		6.52							6.69
3/8/2021	5.32							6.42	
4/14/2021									
4/15/2021									
9/10/2021			5.36					6.86	
9/13/2021	5.27	6.07			5.91	5.88			
9/14/2021				8.58			5.81		7.29
1/20/2022								6.43	
1/21/2022	5.23								
1/24/2022				6.48		6.05	5.99		7.11
1/25/2022					5.84				
1/26/2022		5.87							
1/27/2022			5.33						
6/6/2022									
9/8/2022	5.24								
9/13/2022				6.49					
9/14/2022						5.87			7.09
9/15/2022			5.43				5.86		
9/16/2022		5.92			5.82				
9/19/2022									
9/20/2022								6.38	

Time Series

Constituent: pH, Field (SU) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/3/2020			
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	4.8		
4/15/2021		5.46	
9/10/2021			
9/13/2021			
9/14/2021	5.38	5.3	
1/20/2022	5.77	5.28	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			6.02
9/8/2022			
9/13/2022			
9/14/2022	5.76		6.07
9/15/2022			
9/16/2022			
9/19/2022		5.21	
9/20/2022			

Time Series

Constituent: pH, Field (SU) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			5.39						
1/30/2019				6.83					
9/11/2019		6.27	5.48						
9/12/2019				6.87					
9/18/2019					6.14				
9/23/2019						5.21			
10/21/2019		6.24		6.74		5.34	5.54		
10/22/2019			5.55						
10/24/2019					6.26				
8/13/2020		6.4			6.14				
8/14/2020							5.59		
8/17/2020	4.82					5.48		5.76	
8/19/2020									
9/24/2020		6.55			6.46				
9/25/2020							5.97	5.75	
9/28/2020	4.9					5.84			
3/3/2021	4.71								
3/4/2021					6.33		5.6		
3/5/2021								5.21	
3/9/2021									4.62
3/12/2021		6.34	5.51	6.53		5.29			
3/15/2021									
9/9/2021		6.31							
9/13/2021	4.69							5.68	
9/14/2021			5.46	5.54	6.42	5.15			
9/15/2021									4.55
9/16/2021							5.58		
1/20/2022		6.32	5.46		6.48				
1/21/2022							5.56		
1/25/2022				6.35		5.07			
1/26/2022									4.5
1/27/2022	4.7							5.5	
9/8/2022		6.22							
9/9/2022		6.22 (D)							
9/12/2022									4.56
9/13/2022					6.34		5.6		
9/14/2022			5.31						
9/16/2022	4.56			6.6		5.02 (D)		5.47	

Time Series

Constituent: pH, Field (SU) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98
1/28/2019			
1/30/2019			
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/21/2019			
10/22/2019			
10/24/2019			
8/13/2020			
8/14/2020			
8/17/2020			
8/19/2020	4.78		
9/24/2020			
9/25/2020			
9/28/2020	4.67		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	4.73	5.55	
3/12/2021			
3/15/2021			6.3
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	4.6	5.49	5.4
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	4.74	6.52	6.52
1/27/2022			
9/8/2022			
9/9/2022			
9/12/2022	4.7		
9/13/2022		5.54	6.18
9/14/2022			
9/16/2022			

Time Series

Constituent: pH, Field (SU) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				4.58	5.83			5.68	
9/1/2016					5.67				
9/6/2016							5.69		5.79
9/7/2016									
12/6/2016				4.9	5.91			5.63	
12/7/2016						5.65	5.96		5.94
12/8/2016									
3/28/2017	6.29		5.94						
3/29/2017				4.62	5.74	5.61		5.68	
3/30/2017							5.94		5.8
5/11/2017	6.6								
5/12/2017			5.46						
5/15/2017		5.72							
6/15/2017	6.41	5.74							
6/16/2017			5.81						
7/11/2017		5.62	5.74						
7/12/2017	5.91			4.81	5.82	5.81	5.84	5.66	5.81
8/8/2017		5.6							
10/24/2017	5.51	5.71	5.86	4.8	5.79				
10/25/2017						6.07		6.18	5.9
11/15/2017	6.5		5.77	4.9			5.87		
2/27/2018		5.5	5.66	5.55	5.94	5.73		5.63	
2/28/2018							5.99		5.8
3/8/2018	6.18								
7/10/2018		5.44	5.63	5.27	5.62		5.92		
7/11/2018								5.61	5.87
7/12/2018	6.33								
11/6/2018		5.71	5.79	5.3	5.69				
11/7/2018	6.22					5.85	5.87	5.58	5.9
3/12/2019		5.52	5.74	5.26	5.7	5.98			
3/13/2019	6						5.79	5.61	
3/14/2019									5.77
8/27/2019		5.53	5.87	5.14	5.55	5.55		5.58	
8/28/2019	6.04						5.71		5.88
9/17/2019						5.6			
10/15/2019		5.61	5.88	4.96	5.6	5.89			
10/16/2019	6.69						5.69	5.66	
10/17/2019									5.76
10/18/2019									
3/2/2020		5.54	5.77		5.62	6.13			
3/3/2020				4.77			5.71	5.73	5.79
3/4/2020									
3/9/2020	6.41								
8/11/2020		5.86	5.96	4.92	5.68	5.69		5.73	
8/12/2020							5.68		
8/13/2020	6.17								6.58
8/14/2020									
9/22/2020	6.43	6.01	6.06		5.54	6		5.7	
9/23/2020							5.72		5.85
9/24/2020				4.89					
3/1/2021		5.43	5.8						
3/2/2021					5.59		5.68	5.69	5.81

Time Series

Constituent: pH, Field (SU) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
3/3/2021						6.13			
3/4/2021				5.27					
3/12/2021	6.38								
9/8/2021			5.76						
9/9/2021	6.41	5.5			5.59	6.07	5.69	5.7	5.83
9/10/2021				5.05					
9/13/2021									
1/18/2022		5.5	5.51						
1/20/2022									
1/24/2022									6.06
1/25/2022					5.54	5.96	4.68	5.69	
1/26/2022				4.9					
1/28/2022	6.35								
9/7/2022		5.6	5.65						
9/8/2022	6.32								
9/13/2022								5.71	5.82
9/14/2022									
9/15/2022				4.87	5.52	5.75	5.56		
9/20/2022									

Time Series

Constituent: pH, Field (SU) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		4.64	
9/6/2016			
9/7/2016	5.05		
12/6/2016			
12/7/2016		4.63	
12/8/2016	5.12		
3/28/2017			
3/29/2017		4.7	
3/30/2017	5.08		5.75
5/11/2017			5.67
5/12/2017			
5/15/2017			
6/15/2017			5.75
6/16/2017			
7/11/2017			5.87
7/12/2017	5	4.76	
8/8/2017			
10/24/2017			5.82
10/25/2017	5.73	4.66	
11/15/2017			
2/27/2018			5.85
2/28/2018	5.22	4.63	
3/8/2018			
7/10/2018			
7/11/2018	5.07	4.71	5.85
7/12/2018			
11/6/2018			5.88
11/7/2018	5.09	4.69	
3/12/2019			5.94
3/13/2019	5.07	4.76	
3/14/2019			
8/27/2019	4.96		5.94
8/28/2019		4.85	
9/17/2019			
10/15/2019			
10/16/2019		4.87	
10/17/2019			6.16
10/18/2019	5.08		
3/2/2020			
3/3/2020	5.07	4.89	5.94
3/4/2020	5.07		
3/9/2020			
8/11/2020		4.9	6.04
8/12/2020			
8/13/2020			
8/14/2020	5.01		
9/22/2020		4.91	
9/23/2020			5.99
9/24/2020	5.1		
3/1/2021			
3/2/2021		4.84	6.01

Time Series

Constituent: pH, Field (SU) Analysis Run 11/17/2022 3:09 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
3/3/2021	5.23		
3/4/2021			
3/12/2021			
9/8/2021			
9/9/2021		4.82	6
9/10/2021			
9/13/2021	5.06		
1/18/2022			
1/20/2022			5.93
1/24/2022	5.15		
1/25/2022		4.79	
1/26/2022			
1/28/2022			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	5.08	4.81	
9/15/2022			
9/20/2022			5.98

Time Series

Constituent: pH, Field (SU) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									4.31
9/1/2016							5.11	4.7	
9/2/2016	4.7	5.7	5.74						
9/7/2016						5.35			
12/6/2016									4.43
12/8/2016		5.64	6.03			5.41	5.71	4.58	
3/28/2017					6.01				4.44
3/29/2017	4.7		5.77						
3/30/2017		5.79		6.03				4.19	
3/31/2017						5.36	4.58		
5/12/2017				5.97	5.87				
6/15/2017				6	6.03				
7/11/2017					6.04				4.46
7/12/2017	4.67	5.71		5.97					
7/13/2017			5.71			5.27	4.95	4.3	
10/24/2017					5.99				
10/25/2017	4.71	5.68	5.77			5.38			4.54
10/26/2017				5.9			4.41	4.39	
11/15/2017					5.92				
2/27/2018					6.03				4.87
2/28/2018	4.51	5.71	5.77			5.37			
3/1/2018				6.19			3.93		
3/2/2018								4.14	
7/10/2018					5.96				4.77
7/11/2018	4.68					5.19			
7/12/2018			5.62	5.97			4.33	4.36	
11/6/2018					5.97				4.89
11/7/2018	4.64	5.61	5.71			5.18	4.48	4.23	
11/8/2018				5.96					
3/12/2019					5.85				4.42
3/13/2019	4.65	5.62							
3/14/2019			5.67	5.99		5.1	3.88	4.12	
8/27/2019					5.84				4.83
8/28/2019						5.3			
8/29/2019	4.64	5.61	5.66	5.96			4.35	4.28	
10/15/2019					5.98				
10/16/2019									4.78
10/17/2019	4.64	5.57				5.2	4.6		
10/18/2019			5.61	5.99				4.22	
3/2/2020					5.88				4.8
3/3/2020		5.65	5.74						
3/4/2020	4.22			5.68		5.18	3.86	4.27	
8/11/2020									
8/12/2020					5.93		4.43		4.84
8/13/2020	4.36			6		5.34		4.26	
8/14/2020		5.66	5.76						
9/22/2020	4.66				5.88	5.76			4.83
9/23/2020							4.4	4.64	
9/24/2020		5.64	5.69	6.19					
3/1/2021					5.82				
3/2/2021	4.45								5

Time Series

Constituent: pH, Field (SU) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
3/3/2021		5.63	5.71	5.85		5.3	3.98	4.14	
9/9/2021		5.73		6					
9/10/2021	4.67		5.65		5.83		4.1	4.3	4.89
9/13/2021						5.15			
1/20/2022		5.73	5.72	5.95		5.27			
1/21/2022	4.47						3.72		
1/24/2022					5.79			4.03	4.79
1/25/2022									
1/26/2022									
9/13/2022						5.04	4.15	4.25	
9/14/2022									4.75
9/15/2022	4.58	5.69							
9/16/2022			5.62						
9/19/2022					5.76				
9/20/2022				6					

Time Series

Constituent: pH, Field (SU) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	5.33	4.08
8/31/2016		
9/1/2016		
9/2/2016		
9/7/2016		
12/6/2016	5.39	4.15
12/8/2016		
3/28/2017		4.16
3/29/2017	5.23	
3/30/2017		
3/31/2017		
5/12/2017		
6/15/2017		
7/11/2017	5.33	4.23
7/12/2017		
7/13/2017		
10/24/2017	5.05	4.06
10/25/2017		
10/26/2017		
11/15/2017		
2/27/2018	5.08	4.04
2/28/2018		
3/1/2018		
3/2/2018		
7/10/2018	5.11	
7/11/2018		4.03
7/12/2018		
11/6/2018	5.13	4
11/7/2018		
11/8/2018		
3/12/2019	5.07	3.98
3/13/2019		
3/14/2019		
8/27/2019		4.02
8/28/2019	5.11	
8/29/2019		
10/15/2019		
10/16/2019	5.33	
10/17/2019		4.02
10/18/2019		
3/2/2020		
3/3/2020	5.12	4.07
3/4/2020		
8/11/2020		4
8/12/2020	5.36	
8/13/2020		
8/14/2020		
9/22/2020		4
9/23/2020	5.21	
9/24/2020		
3/1/2021		
3/2/2021	6.6	3.99

Time Series

Constituent: pH, Field (SU) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
3/3/2021		
9/9/2021		
9/10/2021		3.98
9/13/2021	5.05	
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	5.16	
1/26/2022		3.68
9/13/2022		
9/14/2022		
9/15/2022	5.2	
9/16/2022		
9/19/2022		3.98
9/20/2022		

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	<0.005								
9/25/2020	<0.005								
12/9/2020				<0.005		<0.005	<0.005		<0.005
12/17/2020			<0.005		<0.005				
1/11/2021			<0.005						
1/12/2021		<0.005		0.0016 (J)					<0.005
1/13/2021								<0.005	
3/4/2021			<0.005	0.0031 (J)	<0.005	<0.005	0.0016 (J)		
3/5/2021		0.0031 (J)							0.0022 (J)
3/8/2021	0.0019 (J)							<0.005	
4/14/2021									
4/15/2021									
9/10/2021			<0.005					<0.005	
9/13/2021	<0.005	<0.005			<0.005	<0.005			
9/14/2021				<0.005			<0.005		<0.005
1/20/2022								<0.005	
1/21/2022	<0.005								
1/24/2022				<0.005		<0.005	<0.005		<0.005
1/25/2022					<0.005				
1/26/2022		<0.005							
1/27/2022			<0.005						
6/6/2022									
9/8/2022	<0.005								
9/13/2022				<0.005					
9/14/2022						<0.005			<0.005
9/15/2022			<0.005				<0.005		
9/16/2022		<0.005			<0.005				
9/19/2022									
9/20/2022								<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	0.006		
4/15/2021		0.0016 (J)	
9/10/2021			
9/13/2021			
9/14/2021	0.0041 (J)	0.0022 (J)	
1/20/2022	0.0022 (J)	0.0021 (J)	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			<0.005
9/8/2022			
9/13/2022			
9/14/2022	0.0045 (J)		
9/15/2022			
9/16/2022			
9/19/2022		0.0038 (J)	
9/20/2022			

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
2/19/2018				<0.005					
1/28/2019			<0.005						
1/30/2019		<0.005		<0.005					
9/11/2019		<0.005	<0.005						
9/12/2019				<0.005					
9/18/2019					<0.005				
9/23/2019						<0.005			
10/21/2019		<0.005		<0.005		0.0016 (J)	0.0082 (J)		
10/22/2019			<0.005						
10/24/2019					<0.005				
8/13/2020		<0.005			<0.005				
8/14/2020							0.015		
8/17/2020	0.011					<0.005		0.0017 (J)	
8/19/2020									
9/24/2020		<0.005			<0.005				
9/25/2020							0.019	0.0033 (J)	
9/28/2020	0.029					0.0021 (J)			
3/3/2021	0.013								
3/4/2021					0.0017 (J)		0.024		
3/5/2021								0.0033 (J)	
3/9/2021									
3/12/2021		<0.005							
9/9/2021		<0.005							
9/13/2021	0.011							0.0021 (J)	
9/14/2021			<0.005	<0.005	<0.005	<0.005			
9/15/2021									0.0067
9/16/2021							0.025		
1/20/2022		<0.005	<0.005		<0.005				
1/21/2022							0.027		
1/25/2022				<0.005		0.002 (J)			
1/26/2022									0.0039 (J)
1/27/2022	0.0066							<0.005	
9/8/2022		<0.005							
9/12/2022									0.012
9/13/2022					<0.005		0.024		
9/14/2022			<0.005						
9/16/2022	0.01			<0.005		<0.005		0.002 (J)	

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98
2/19/2018			
1/28/2019			
1/30/2019			
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/21/2019			
10/22/2019			
10/24/2019			
8/13/2020			
8/14/2020			
8/17/2020			
8/19/2020	0.018		
9/24/2020			
9/25/2020			
9/28/2020	0.036		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	0.0099 (J)		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	0.0076	0.0024 (J)	0.0033 (J)
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.0063	0.0015 (J)	<0.005
1/27/2022			
9/8/2022			
9/12/2022	0.013		
9/13/2022		0.0032 (J)	<0.005
9/14/2022			
9/16/2022			

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				0.0366	<0.005			0.0016 (J)	
9/1/2016						0.0017 (J)			
9/6/2016							0.0011 (J)		<0.005
9/7/2016									
12/6/2016				0.0026 (J)	<0.005			<0.005	
12/7/2016						<0.005	0.0015 (J)		<0.005
12/8/2016									
3/28/2017	<0.005	<0.005	<0.005						
3/29/2017				0.0286	<0.005	0.0017 (J)		<0.005	
3/30/2017							0.0015 (J)		<0.005
5/11/2017	<0.005								
5/12/2017			<0.005						
5/15/2017		<0.005							
6/15/2017	<0.005	<0.005							
6/16/2017			<0.005						
7/11/2017		<0.005	<0.005						
7/12/2017	<0.005			0.0257	<0.005	0.0019 (J)	<0.005	<0.005	<0.005
8/8/2017		<0.005							
10/24/2017	<0.005	<0.005	<0.005	0.0281	<0.005				
10/25/2017						0.0024 (J)		<0.005	<0.005
11/15/2017							0.0019 (J)		
2/27/2018		<0.005	<0.005	0.0667	<0.005	<0.005		<0.005	
2/28/2018							<0.005		<0.005
3/8/2018	<0.005								
7/11/2018						<0.005		0.002 (J)	<0.005
7/12/2018	<0.005								
11/6/2018		<0.005	<0.005	0.049	<0.005				
11/7/2018	<0.005					<0.01 (J)	<0.01 (J)	<0.01 (J)	<0.01 (J)
8/27/2019		<0.005	<0.005	0.015	<0.005	<0.005		<0.005	
8/28/2019	<0.005						0.0039 (J)		<0.005
9/17/2019						0.0014 (J)			
10/15/2019		<0.005	<0.005	0.071	<0.005	0.0019 (J)			
10/16/2019	<0.005						0.0031 (J)	0.0017 (J)	
10/17/2019									<0.005
10/18/2019									
3/2/2020		<0.005	<0.005		<0.005	<0.005			
3/3/2020				0.021			0.0062 (J)	0.0014 (J)	<0.005
3/4/2020									
3/9/2020	<0.005								
8/11/2020		<0.005	<0.005	0.023	<0.005	0.0019 (J)		<0.005	
8/12/2020							0.0038 (J)		
8/13/2020	<0.005								0.0018 (J)
8/14/2020									
9/22/2020	<0.005	<0.005	<0.005		<0.005	<0.005		<0.005	
9/23/2020							0.0053 (J)		<0.005
9/24/2020				0.074					
3/1/2021		<0.005	<0.005						
3/2/2021					<0.005		0.006	<0.005	<0.005
3/3/2021						<0.005			
3/4/2021				0.05					
3/12/2021	<0.005								
9/8/2021			<0.005						

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
9/9/2021	<0.005	<0.005			<0.005	<0.005	0.006	0.0017 (J)	<0.005
9/10/2021				0.034					
9/13/2021									
1/18/2022		<0.005	<0.005						
1/20/2022									
1/24/2022									<0.005
1/25/2022					<0.005	<0.005	0.006	0.0016 (J)	
1/26/2022				0.015					
1/28/2022	<0.005								
9/7/2022		<0.005	<0.005						
9/8/2022	<0.005								
9/13/2022								<0.005	<0.005
9/14/2022									
9/15/2022				0.02	<0.005	<0.005	0.004 (J)		
9/20/2022									

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0093 (J)	
9/6/2016			
9/7/2016	0.007 (J)		
12/6/2016			
12/7/2016		<0.005	
12/8/2016	0.0087 (J)		
3/28/2017			
3/29/2017		0.0071 (J)	
3/30/2017	0.0099 (J)		<0.005
5/11/2017			<0.005
5/12/2017			
5/15/2017			
6/15/2017			<0.005
6/16/2017			
7/11/2017			<0.005
7/12/2017	0.0072 (J)	0.0065 (J)	
8/8/2017			
10/24/2017			<0.005
10/25/2017	0.0078 (J)	0.0087 (J)	
11/15/2017			
2/27/2018			<0.005
2/28/2018	<0.005	0.0114	
3/8/2018			
7/11/2018	0.007 (J)	0.0036 (J)	0.0045 (J)
7/12/2018			
11/6/2018			<0.01 (J)
11/7/2018	<0.005	<0.01 (J)	
8/27/2019	0.0073 (J)		0.0069 (J)
8/28/2019		0.004 (J)	
9/17/2019			
10/15/2019			
10/16/2019		0.006 (J)	
10/17/2019			0.0051 (J)
10/18/2019	0.0093 (J)		
3/2/2020			
3/3/2020		0.0066 (J)	0.0047 (J)
3/4/2020	0.0074 (J)		
3/9/2020			
8/11/2020		0.0096 (J)	0.0053 (J)
8/12/2020			
8/13/2020			
8/14/2020	0.0084 (J)		
9/22/2020		0.0052 (J)	
9/23/2020			0.0046 (J)
9/24/2020	0.015		
3/1/2021			
3/2/2021		0.0091	0.0037 (J)
3/3/2021	0.0072		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.0083	0.0031 (J)
9/10/2021			
9/13/2021	0.0071		
1/18/2022			
1/20/2022			0.0031 (J)
1/24/2022	0.0064		
1/25/2022		0.0029 (J)	
1/26/2022			
1/28/2022			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	0.0064	0.0073	
9/15/2022			
9/20/2022			0.0018 (J)

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									0.0182
9/1/2016							0.0217	0.0084 (J)	
9/2/2016	0.0671	<0.005	<0.005						
9/7/2016						<0.005			
12/6/2016									0.012
12/7/2016	0.0056 (J)								
12/8/2016		<0.005	<0.005			<0.005	0.017	0.0084 (J)	
3/28/2017					<0.005				0.168
3/29/2017	0.0521		<0.005						
3/30/2017		<0.005		<0.005				0.0079 (J)	
3/31/2017						<0.005	0.0133		
5/12/2017				<0.005	<0.005				
6/15/2017				<0.005	<0.005				
7/11/2017					<0.005				0.0607
7/12/2017	0.0483	<0.005		<0.005					
7/13/2017			<0.005			<0.005	0.0068 (J)	0.0062 (J)	
10/24/2017					<0.005				
10/25/2017	0.0506	<0.005	<0.005			<0.005			0.034
10/26/2017				<0.005			0.0097 (J)	0.0058 (J)	
2/27/2018					<0.005				0.0348
2/28/2018	0.0755	<0.005	<0.005			<0.005			
3/1/2018				<0.005			0.0124		
3/2/2018								<0.005	
7/11/2018	0.022	<0.005				<0.005			
7/12/2018			0.0017 (J)	<0.005			0.015	0.013	
11/6/2018					<0.005				<0.01 (J)
11/7/2018	0.044	<0.005	<0.005			<0.005	<0.01 (J)	<0.01 (J)	
11/8/2018				<0.005					
8/27/2019					<0.005				0.0031 (J)
8/28/2019						<0.005			
8/29/2019	0.029	<0.005	<0.005	<0.005			0.004 (J)	0.0023 (J)	
10/15/2019					0.0014 (J)				
10/16/2019									0.015
10/17/2019	0.071	<0.005				<0.005	0.0062 (J)		
10/18/2019			<0.005	<0.005				0.005 (J)	
3/2/2020					<0.005				0.032
3/3/2020		<0.005	<0.005						
3/4/2020	0.071			<0.005		<0.005	0.0065 (J)	0.0061 (J)	
8/11/2020									
8/12/2020					<0.005		0.002 (J)		0.011
8/13/2020	0.091			<0.005		<0.005		0.0029 (J)	
8/14/2020		<0.005	<0.005						
9/22/2020	0.023				<0.005	<0.005			0.04
9/23/2020							<0.005	0.0016 (J)	
9/24/2020		<0.005	<0.005	<0.005					
3/1/2021					<0.005				
3/2/2021	0.078								0.0081
3/3/2021		<0.005	<0.005	<0.005		<0.005	0.0039 (J)	0.0025 (J)	
9/9/2021		<0.005		<0.005					
9/10/2021	0.031		<0.005		<0.005		0.0035 (J)	0.0022 (J)	0.0099
9/13/2021						<0.005			

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
1/20/2022		<0.005	<0.005	<0.005		<0.005			
1/21/2022	0.041						0.0016 (J)		
1/24/2022					<0.005			<0.005	0.0048 (J)
1/25/2022									
1/26/2022									
9/13/2022						<0.005	0.0031 (J)	0.0019 (J)	
9/14/2022									0.019
9/15/2022	0.062	<0.005							
9/16/2022			<0.005						
9/19/2022					<0.005				
9/20/2022				<0.005					

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	0.0032 (J)	0.0833
8/31/2016		
9/1/2016		
9/2/2016		
9/7/2016		
12/6/2016	<0.005	0.0065 (J)
12/7/2016		
12/8/2016		
3/28/2017		0.0954
3/29/2017	0.0048 (J)	
3/30/2017		
3/31/2017		
5/12/2017		
6/15/2017		
7/11/2017	0.0031 (J)	0.0561
7/12/2017		
7/13/2017		
10/24/2017	0.0069 (J)	0.0653
10/25/2017		
10/26/2017		
2/27/2018	<0.005	0.13
2/28/2018		
3/1/2018		
3/2/2018		
7/11/2018		0.045
7/12/2018		
11/6/2018	<0.01 (J)	0.12
11/7/2018		
11/8/2018		
8/27/2019		0.067
8/28/2019	<0.005	
8/29/2019		
10/15/2019		
10/16/2019	0.0016 (J)	
10/17/2019		0.19
10/18/2019		
3/2/2020		
3/3/2020	0.0018 (J)	0.046
3/4/2020		
8/11/2020		0.11
8/12/2020	<0.005	
8/13/2020		
8/14/2020		
9/22/2020		0.23
9/23/2020	0.0028 (J)	
9/24/2020		
3/1/2021		
3/2/2021	<0.005	0.07
3/3/2021		
9/9/2021		
9/10/2021		0.057
9/13/2021	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	<0.005	
1/26/2022		0.025
9/13/2022		
9/14/2022		
9/15/2022	<0.005	
9/16/2022		
9/19/2022		0.048
9/20/2022		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
9/25/2020	385								
12/9/2020				415		273	277		197
12/17/2020			249		179				
1/11/2021			249						
1/12/2021		207		471					222
1/13/2021								99.8	
3/4/2021			256	474	170	309	309		
3/5/2021		236							270
3/8/2021	388							102	
4/14/2021									
4/15/2021									
9/10/2021			271					93.2	
9/13/2021	351	174			147	275			
9/14/2021				456			299		243
1/20/2022								93.1	
1/21/2022	344								
1/24/2022				423		276	277		238
1/25/2022					132				
1/26/2022		144							
1/27/2022			231						
6/6/2022									
9/8/2022	399								
9/13/2022				505					
9/14/2022						327			228
9/15/2022			258				318		
9/16/2022		223			137				
9/19/2022									
9/20/2022								108	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	256		
4/15/2021		556	
9/10/2021			
9/13/2021			
9/14/2021	278	552	
1/20/2022	293	475	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			97.7
9/8/2022			
9/13/2022			
9/14/2022	297		
9/15/2022			
9/16/2022			
9/19/2022		489	
9/20/2022			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			87.9						
1/30/2019		74.7		292					
10/21/2019		55.3		302		334	103		
10/22/2019			56.5						
10/24/2019					8.6				
11/22/2019								619	
12/18/2019									481
12/19/2019									
2/17/2020									
9/24/2020		50.6			2.9				
9/25/2020							107	344	
9/28/2020	211					287			
3/3/2021	225								
3/4/2021					4.9		113		
3/5/2021								497	
3/9/2021									
3/12/2021		46.5							
9/9/2021		49.2							
9/13/2021	189							321	
9/14/2021			73.2	268	2.5	326			
9/15/2021									384
9/16/2021							106		
1/20/2022		50.3	49.4		<1				
1/21/2022							106		
1/25/2022				240		363			
1/26/2022									305
1/27/2022	185							371	
9/8/2022		45.8							
9/12/2022									394
9/13/2022					10		109		
9/14/2022			93.3						
9/16/2022	234			285		404		433	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98
1/28/2019			
1/30/2019			
10/21/2019			
10/22/2019			
10/24/2019			
11/22/2019			
12/18/2019			
12/19/2019	533		
2/17/2020		242	150
9/24/2020			
9/25/2020			
9/28/2020	419		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	488		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	478	551	325
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	477	531	18.4
1/27/2022			
9/8/2022			
9/12/2022	508		
9/13/2022		677	92.1
9/14/2022			
9/16/2022			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				400	200			44	
9/1/2016						390			
9/6/2016							170		180
9/7/2016									
12/6/2016				190	190			45	
12/7/2016						350	160		180
12/8/2016									
3/28/2017	49	2.7	17						
3/29/2017				360	200	150		81 (O)	
3/30/2017							180		210
5/11/2017	21								
5/12/2017			17						
5/15/2017		1							
6/15/2017	16	0.86 (J)							
6/16/2017			11						
7/11/2017		1.4	11						
7/12/2017	10			390	210	350	170	44	170
8/8/2017		1.5							
10/24/2017	15	1.4	9.6	410	210				
10/25/2017						400		42	180
11/15/2017	3.8		7.8	390			180		
2/27/2018		0.54 (J)	7.4	335	220	356		41	
2/28/2018							43.5		168
3/8/2018	9.7								
7/11/2018						344		40.6	154
7/12/2018	8								
11/6/2018		<1 (J)	7.3	356	302				
11/7/2018	12.8					298	162	41.3	168
3/12/2019		0.35 (J)	7	297	275	284			
3/13/2019	23.7						179	41.2	
3/14/2019									195
10/15/2019		0.16 (J)	7.4	263	273	270			
10/16/2019	15.1						167	42.1	
10/17/2019									146
10/18/2019									
3/2/2020		<1	8.5		264	181			
3/3/2020				213			157	45.5	148
3/4/2020									
3/9/2020	9.5								
9/22/2020	13.5	<1	6.5		267	183		40.2	
9/23/2020							134		146
9/24/2020				204					
3/1/2021		<1	5.2						
3/2/2021					250		131	42.6	148
3/3/2021						203			
3/4/2021				240					
3/12/2021	8.8								
9/8/2021			6.1						
9/9/2021	11.9	<1			247	126	127	42.3	139
9/10/2021				271					
9/13/2021									
1/18/2022		<1	6.3						

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
1/20/2022									
1/24/2022									127
1/25/2022					250	111	116	44.4	
1/26/2022				241					
1/28/2022	13.1								
9/7/2022		<1	7						
9/8/2022	12								
9/13/2022								41.2	145
9/14/2022									
9/15/2022				229	287	191	133		
9/20/2022									

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		240	
9/6/2016			
9/7/2016	230		
12/6/2016			
12/7/2016		250	
12/8/2016	240		
3/28/2017			
3/29/2017		250	
3/30/2017	260		360
5/11/2017			340
5/12/2017			
5/15/2017			
6/15/2017			300
6/16/2017			
7/11/2017			330
7/12/2017	230	250	
8/8/2017			
10/24/2017			260
10/25/2017	240	270	
11/15/2017			
2/27/2018			189
2/28/2018	203	244	
3/8/2018			
7/11/2018	234	249	162
7/12/2018			
11/6/2018			190
11/7/2018	248	266	
3/12/2019			159
3/13/2019	268	299	
3/14/2019			
10/15/2019			
10/16/2019		323	
10/17/2019			134
10/18/2019	222		
3/2/2020			
3/3/2020		292	118
3/4/2020	222		
3/9/2020			
9/22/2020		310	
9/23/2020			122
9/24/2020	259		
3/1/2021			
3/2/2021		324	112
3/3/2021	237		
3/4/2021			
3/12/2021			
9/8/2021			
9/9/2021		315	110
9/10/2021			
9/13/2021	222		
1/18/2022			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
1/20/2022			101
1/24/2022	225		
1/25/2022		288	
1/26/2022			
1/28/2022			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	268	388	
9/15/2022			
9/20/2022			98.4

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									400
9/1/2016							470	540	
9/2/2016	580	300	140						
9/7/2016						370			
12/6/2016									460
12/7/2016	650								
12/8/2016		280	260			350	400	540	
3/28/2017					680				380
3/29/2017	640		290						
3/30/2017		270		220				550	
3/31/2017						380	350		
5/12/2017				220	680				
6/15/2017				200	730				
7/11/2017					740				440
7/12/2017	630	290		220					
7/13/2017			300			370	270	500	
10/24/2017					930				
10/25/2017	610	290	290			370			510
10/26/2017				220			290	510	
11/15/2017					820				
2/27/2018					811				453
2/28/2018	584	267	278			350			
3/1/2018				209			245		
3/2/2018								456	
7/11/2018	501	277				366			
7/12/2018			197	202			240	409	
11/6/2018					902				556
11/7/2018	554	286	320			439	143	432	
11/8/2018				292					
3/12/2019					987				484
3/13/2019	539	312							
3/14/2019			297	266		404	238	450	
10/15/2019					888				
10/16/2019									493
10/17/2019	426	255				321	179		
10/18/2019			254	203				336	
3/2/2020					840				455
3/3/2020		269	242						
3/4/2020	434			204		329	176	368	
9/22/2020	408				800	320			423
9/23/2020							111	313	
9/24/2020		269	262	215					
3/1/2021					840				
3/2/2021	458								412
3/3/2021		264	252	221		329	143	312	
9/9/2021		238		217					
9/10/2021	399		234		823		123	272	449
9/13/2021						285			
1/20/2022		223	221	211		281			
1/21/2022	406						135		
1/24/2022					816			265	434

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
1/25/2022									
1/26/2022									
9/13/2022						326	150	309	
9/14/2022									505
9/15/2022	462	268							
9/16/2022			265						
9/19/2022					925				
9/20/2022				242					

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	450	300
8/31/2016		
9/1/2016		
9/2/2016		
9/7/2016		
12/6/2016	480	320
12/7/2016		
12/8/2016		
3/28/2017		300
3/29/2017	660	
3/30/2017		
3/31/2017		
5/12/2017		
6/15/2017		
7/11/2017	440	320
7/12/2017		
7/13/2017		
10/24/2017	430	430
10/25/2017		
10/26/2017		
11/15/2017		
2/27/2018	340	327
2/28/2018		
3/1/2018		
3/2/2018		
7/11/2018		344
7/12/2018		
11/6/2018	307	438
11/7/2018		
11/8/2018		
3/12/2019	295	362
3/13/2019		
3/14/2019		
10/15/2019		
10/16/2019	235	
10/17/2019		331
10/18/2019		
3/2/2020		
3/3/2020	195	247
3/4/2020		
9/22/2020		282
9/23/2020	178	
9/24/2020		
3/1/2021		
3/2/2021	152	266
3/3/2021		
9/9/2021		
9/10/2021		264
9/13/2021	145	
1/20/2022		
1/21/2022		
1/24/2022		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
1/25/2022	134	
1/26/2022		245
9/13/2022		
9/14/2022		
9/15/2022	134	
9/16/2022		
9/19/2022		274
9/20/2022		

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
8/17/2020	<0.001								
9/25/2020	<0.001								
12/9/2020				<0.001		<0.001	<0.001		<0.001
12/17/2020			<0.001		<0.001				
1/11/2021			<0.001						
1/12/2021		<0.001		<0.001					<0.001
1/13/2021								<0.001	
3/4/2021			<0.001	<0.001	<0.001	<0.001	<0.001		
3/5/2021		<0.001							<0.001
3/8/2021	<0.001							<0.001	
4/14/2021									
4/15/2021									
9/10/2021			<0.001					<0.001	
9/13/2021	<0.001	<0.001			<0.001	<0.001			
9/14/2021				<0.001			<0.001		<0.001
1/20/2022								<0.001	
1/21/2022	<0.001								
1/24/2022				<0.001		<0.001	<0.001		<0.001
1/25/2022					<0.001				
1/26/2022		<0.001							
1/27/2022			<0.001						
6/6/2022									
9/8/2022	<0.001								
9/13/2022				<0.001					
9/14/2022						<0.001			<0.001
9/15/2022			<0.001				<0.001		
9/16/2022		<0.001			<0.001				
9/19/2022									
9/20/2022								<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
8/17/2020			
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	<0.001		
4/15/2021		<0.001	
9/10/2021			
9/13/2021			
9/14/2021	<0.001	<0.001	
1/20/2022	<0.001	<0.001	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			<0.001
9/8/2022			
9/13/2022			
9/14/2022	<0.001		
9/15/2022			
9/16/2022			
9/19/2022		<0.001	
9/20/2022			

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			<0.001						
1/30/2019		<0.001		<0.001					
9/11/2019		<0.001	<0.001						
9/12/2019				<0.001					
9/18/2019					<0.001				
9/23/2019						9.9E-05 (J)			
10/21/2019		<0.001		<0.001		0.00011 (J)	7.2E-05 (J)		
10/22/2019			<0.001						
10/24/2019					<0.001				
8/13/2020		<0.001			<0.001				
8/14/2020							<0.001		
8/17/2020	0.00016 (J)					<0.001		<0.001	
8/19/2020									
9/24/2020		<0.001			<0.001				
9/25/2020							<0.001	<0.001	
9/28/2020	0.00023 (J)					<0.001			
3/3/2021	0.00026 (J)								
3/4/2021					<0.001		<0.001		
3/5/2021								0.0002 (J)	
3/9/2021									
3/12/2021		<0.001							
9/9/2021		<0.001							
9/13/2021	0.00024 (J)							<0.001	
9/14/2021			<0.001	<0.001	<0.001	<0.001			
9/15/2021									<0.001
9/16/2021							<0.001		
1/20/2022		<0.001	<0.001		<0.001				
1/21/2022							<0.001		
1/25/2022				<0.001		<0.001			
1/26/2022									<0.001
1/27/2022	0.00032 (J)							<0.001	
9/8/2022		<0.001							
9/12/2022									0.0002 (J)
9/13/2022					<0.001		<0.001		
9/14/2022			<0.001						
9/16/2022	0.00024 (J)			<0.001		<0.001		<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98
1/28/2019			
1/30/2019			
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/21/2019			
10/22/2019			
10/24/2019			
8/13/2020			
8/14/2020			
8/17/2020			
8/19/2020	<0.001		
9/24/2020			
9/25/2020			
9/28/2020	<0.001		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	<0.001		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	<0.001	<0.001	<0.001
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.001	<0.001	<0.001
1/27/2022			
9/8/2022			
9/12/2022	<0.001		
9/13/2022		<0.001	<0.001
9/14/2022			
9/16/2022			

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				0.0004 (J)	<0.001			<0.001	
9/1/2016						<0.001			
9/6/2016							<0.001		<0.001
9/7/2016									
12/6/2016				0.0004 (J)	<0.001			<0.001	
12/7/2016						<0.001	<0.001		<0.001
12/8/2016									
3/28/2017	<0.001	<0.001	6E-05 (J)						
3/29/2017				0.0006 (J)	<0.001	8E-05 (J)		<0.001	
3/30/2017							<0.001		<0.001
5/11/2017	<0.001								
5/12/2017			<0.001						
5/15/2017		<0.001							
6/15/2017	<0.001	<0.001							
6/16/2017			<0.001						
7/11/2017		<0.001	<0.001						
7/12/2017	<0.001			0.0005 (J)	<0.001	9E-05 (J)	<0.001	<0.001	<0.001
8/8/2017		<0.001							
10/24/2017	<0.001	<0.001	<0.001	0.0004 (J)	<0.001				
10/25/2017						9E-05 (J)		<0.001	<0.001
11/15/2017							<0.001		
2/27/2018		<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	
2/28/2018							<0.001		<0.001
3/8/2018	<0.001								
7/11/2018						<0.001		<0.001	<0.001
7/12/2018	<0.001								
11/6/2018		<0.001	<0.001	<0.001 (J)	<0.001				
11/7/2018	<0.001					<0.001	<0.001	<0.001	<0.001 (J)
8/27/2019		<0.001	<0.001	0.00036 (J)	<0.001	8.9E-05 (J)		<0.001	
8/28/2019	<0.001						<0.001		<0.001
9/17/2019						9.7E-05 (J)			
10/15/2019		<0.001	<0.001	0.00039 (J)	<0.001	9.1E-05 (J)			
10/16/2019	<0.001						<0.001	<0.001	
10/17/2019									<0.001
10/18/2019									
3/2/2020		7.8E-05 (J)	<0.001		<0.001	0.00013 (J)			
3/3/2020				0.00042 (J)			<0.001	<0.001	<0.001
3/4/2020									
3/9/2020	<0.001								
8/11/2020		<0.001	<0.001	0.00037 (J)	<0.001	<0.001		<0.001	
8/12/2020							<0.001		
8/13/2020	<0.001								<0.001
8/14/2020									
9/22/2020	<0.001	<0.001	<0.001		<0.001	<0.001		<0.001	
9/23/2020							<0.001		<0.001
9/24/2020				0.00034 (J)					
3/1/2021		<0.001	<0.001						
3/2/2021					<0.001		<0.001	<0.001	<0.001
3/3/2021						<0.001			
3/4/2021				0.00042 (J)					
3/12/2021	<0.001								
9/8/2021			<0.001						

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
9/9/2021	<0.001	<0.001			<0.001	<0.001	<0.001	<0.001	<0.001
9/10/2021				0.00027 (J)					
9/13/2021									
1/18/2022		<0.001	<0.001						
1/20/2022									
1/24/2022									<0.001
1/25/2022					<0.001	<0.001	<0.001	<0.001	
1/26/2022				0.00033 (J)					
1/28/2022	<0.001								
9/7/2022		<0.001	<0.001						
9/8/2022	<0.001								
9/13/2022								<0.001	<0.001
9/14/2022									
9/15/2022				<0.001	<0.001	<0.001	<0.001		
9/20/2022									

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		0.0005 (J)	
9/6/2016			
9/7/2016	<0.001		
12/6/2016			
12/7/2016		0.0005 (J)	
12/8/2016	<0.001		
3/28/2017			
3/29/2017		0.0004 (J)	
3/30/2017	0.0002 (J)		<0.001
5/11/2017			<0.001
5/12/2017			
5/15/2017			
6/15/2017			<0.001
6/16/2017			
7/11/2017			<0.001
7/12/2017	0.0002 (J)	0.0005 (J)	
8/8/2017			
10/24/2017			<0.001
10/25/2017	0.0002 (J)	0.0004 (J)	
11/15/2017			
2/27/2018			<0.001
2/28/2018	0.00015 (J)	0.00049 (J)	
3/8/2018			
7/11/2018	0.00017 (J)	0.0005 (J)	<0.001
7/12/2018			
11/6/2018			<0.001
11/7/2018	<0.001	<0.001 (J)	
8/27/2019	0.00018 (J)		<0.001
8/28/2019		0.00053 (J)	
9/17/2019			
10/15/2019			
10/16/2019		0.00053 (J)	
10/17/2019			<0.001
10/18/2019	0.00014 (J)		
3/2/2020			
3/3/2020		0.0006 (J)	<0.001
3/4/2020	0.00019 (J)		
3/9/2020			
8/11/2020		0.00059 (J)	<0.001
8/12/2020			
8/13/2020			
8/14/2020	0.00019 (J)		
9/22/2020		0.0005 (J)	
9/23/2020			<0.001
9/24/2020	0.00018 (J)		
3/1/2021			
3/2/2021		0.00056 (J)	<0.001
3/3/2021	0.00017 (J)		
3/4/2021			
3/12/2021			
9/8/2021			

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.00056 (J)	<0.001
9/10/2021			
9/13/2021	<0.001		
1/18/2022			
1/20/2022			<0.001
1/24/2022	<0.001		
1/25/2022		0.00057 (J)	
1/26/2022			
1/28/2022			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	<0.001	0.00056 (J)	
9/15/2022			
9/20/2022			<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									<0.001
9/1/2016							0.0002 (J)	<0.001	
9/2/2016	<0.001	<0.001	<0.001						
9/7/2016						<0.001			
12/6/2016									<0.001
12/7/2016	0.0006 (J)								
12/8/2016		<0.001	<0.001			<0.001	<0.001	<0.001	
3/28/2017					<0.001				0.0002 (J)
3/29/2017	0.0006 (J)		6E-05 (J)						
3/30/2017		<0.001		<0.001				9E-05 (J)	
3/31/2017						9E-05 (J)	0.0002 (J)		
5/12/2017				<0.001	<0.001				
6/15/2017				<0.001	<0.001				
7/11/2017					<0.001				<0.001
7/12/2017	0.0006 (J)	<0.001		<0.001					
7/13/2017			7E-05 (J)			9E-05 (J)	0.0002 (J)	8E-05 (J)	
10/24/2017					<0.001				
10/25/2017	0.0005 (J)	<0.001	7E-05 (J)			9E-05 (J)			<0.001
10/26/2017				<0.001			0.0003 (J)	9E-05 (J)	
2/27/2018					<0.001				<0.001
2/28/2018	<0.001	<0.001	<0.001			<0.001			
3/1/2018				<0.001			0.00032 (J)		
3/2/2018								<0.001	
7/11/2018	<0.001	<0.001				<0.001			
7/12/2018			<0.001	<0.001			0.00031 (J)	<0.001	
11/6/2018					<0.001				<0.001
11/7/2018	<0.001 (J)	<0.001	<0.001			<0.001	<0.001 (J)	<0.001	
11/8/2018				<0.001 (J)					
8/27/2019					<0.001				<0.001
8/28/2019						6.9E-05 (J)			
8/29/2019	0.00084 (J)	<0.001	6.4E-05 (J)	<0.001			0.00025 (J)	7.8E-05 (J)	
10/15/2019					7.3E-05 (J)				
10/16/2019									7.8E-05 (J)
10/17/2019	0.00062 (J)	<0.001				<0.001	0.00025 (J)		
10/18/2019			<0.001	<0.001				<0.001	
3/2/2020					<0.001				6.2E-05 (J)
3/3/2020		<0.001	7E-05 (J)						
3/4/2020	0.0023 (J)			<0.001		<0.001	0.00021 (J)	6.8E-05 (J)	
8/11/2020									
8/12/2020					<0.001		0.00018 (J)		<0.001
8/13/2020	0.0016 (J)			<0.001		<0.001		<0.001	
8/14/2020		<0.001	<0.001						
9/22/2020	0.00055 (J)				<0.001	<0.001			<0.001
9/23/2020							0.00026 (J)	<0.001	
9/24/2020		<0.001	<0.001	<0.001					
3/1/2021					<0.001				
3/2/2021	0.0014 (J)								<0.001
3/3/2021		<0.001	<0.001	<0.001		<0.001	0.00023 (J)	<0.001	
9/9/2021		<0.001		<0.001					
9/10/2021	0.00052 (J)		<0.001		<0.001		0.00036 (J)	<0.001	<0.001
9/13/2021						<0.001			

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
1/20/2022		<0.001	<0.001	<0.001		<0.001			
1/21/2022	<0.001						0.00028 (J)		
1/24/2022					<0.001			<0.001	<0.001
1/25/2022									
1/26/2022									
9/13/2022						<0.001	0.00021 (J)	<0.001	
9/14/2022									<0.001
9/15/2022	0.001 (J)	<0.001							
9/16/2022			<0.001						
9/19/2022					<0.001				
9/20/2022				<0.001					

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	<0.001	<0.001
8/31/2016		
9/1/2016		
9/2/2016		
9/7/2016		
12/6/2016	<0.001	0.0006 (J)
12/7/2016		
12/8/2016		
3/28/2017		0.0007 (J)
3/29/2017	0.0002 (J)	
3/30/2017		
3/31/2017		
5/12/2017		
6/15/2017		
7/11/2017	0.0001 (J)	0.0007 (J)
7/12/2017		
7/13/2017		
10/24/2017	0.0003 (J)	0.0006 (J)
10/25/2017		
10/26/2017		
2/27/2018	0.00033 (J)	0.00038 (J)
2/28/2018		
3/1/2018		
3/2/2018		
7/11/2018		<0.001
7/12/2018		
11/6/2018	<0.001 (J)	<0.001
11/7/2018		
11/8/2018		
8/27/2019		0.00053 (J)
8/28/2019	0.00022 (J)	
8/29/2019		
10/15/2019		
10/16/2019	0.00025 (J)	
10/17/2019		0.00076 (J)
10/18/2019		
3/2/2020		
3/3/2020	0.00023 (J)	0.00044 (J)
3/4/2020		
8/11/2020		<0.001
8/12/2020	0.00023 (J)	
8/13/2020		
8/14/2020		
9/22/2020		0.00043 (J)
9/23/2020	0.0002 (J)	
9/24/2020		
3/1/2021		
3/2/2021	0.00019 (J)	<0.001
3/3/2021		
9/9/2021		
9/10/2021		0.0004 (J)
9/13/2021	0.00019 (J)	

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
1/20/2022		
1/21/2022		
1/24/2022		
1/25/2022	0.00019 (J)	
1/26/2022		<0.001
9/13/2022		
9/14/2022		
9/15/2022	<0.001	
9/16/2022		
9/19/2022		<0.001
9/20/2022		

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D
9/25/2020	724								
12/9/2020				862		564	573		490
12/17/2020			449		340				
1/11/2021			442						
1/12/2021		405		836					500
1/13/2021								303	
3/4/2021			459	818	321	525	569		
3/5/2021		462							634
3/8/2021	660							305	
4/14/2021									
4/15/2021									
9/10/2021			474					284	
9/13/2021	636	343			296	567			
9/14/2021				776			576		586
1/20/2022								309	
1/21/2022	638								
1/24/2022				806		552	502		566
1/25/2022					295				
1/26/2022		290							
1/27/2022			459						
6/6/2022									
9/8/2022	606								
9/13/2022				832					
9/14/2022						582			470
9/15/2022			437				540		
9/16/2022		365			240				
9/19/2022									
9/20/2022								327	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-115D	B-120D	B-122D
9/25/2020			
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/4/2021			
3/5/2021			
3/8/2021			
4/14/2021	480		
4/15/2021		982	
9/10/2021			
9/13/2021			
9/14/2021	499	882	
1/20/2022	553	816	
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022			
6/6/2022			307
9/8/2022			
9/13/2022			
9/14/2022	519		
9/15/2022			
9/16/2022			
9/19/2022		867	
9/20/2022			

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
1/28/2019			204						
1/30/2019		287		601					
10/21/2019		180		617		458	214		
10/22/2019			178						
10/24/2019					106				
9/24/2020		170			124				
9/25/2020							244	624	
9/28/2020	320					454			
3/3/2021	303								
3/4/2021					128		234		
3/5/2021								798	
3/9/2021									
3/12/2021		172							
9/9/2021		174							
9/13/2021	321							572	
9/14/2021			170	490	94	536			
9/15/2021									612
9/16/2021							223		
1/20/2022		187	177		129				
1/21/2022							236		
1/25/2022				482		668			
1/26/2022									572
1/27/2022	344							654	
9/8/2022		160							
9/12/2022									696
9/13/2022					113		210		
9/14/2022			206						
9/16/2022	353			498		468		564	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	B-98
1/28/2019			
1/30/2019			
10/21/2019			
10/22/2019			
10/24/2019			
9/24/2020			
9/25/2020			
9/28/2020	686		
3/3/2021			
3/4/2021			
3/5/2021			
3/9/2021	790		
3/12/2021			
9/9/2021			
9/13/2021			
9/14/2021			
9/15/2021	812	892	524
9/16/2021			
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	766	930	139
1/27/2022			
9/8/2022			
9/12/2022	884		
9/13/2022		1050	267
9/14/2022			
9/16/2022			

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016				525	307			106	
9/1/2016						568			
9/6/2016							296		304
9/7/2016									
12/6/2016				595	358			138	
12/7/2016						559	270		287
12/8/2016									
3/28/2017	202	39	90						
3/29/2017				525	300	550		102	
3/30/2017							287		312
5/11/2017	241								
5/12/2017			92						
5/15/2017		88							
6/15/2017	251	65							
6/16/2017			100						
7/11/2017		25	59						
7/12/2017	218			598	382	594	312	118	490 (O)
8/8/2017		53							
10/24/2017	671 (O)	49	117	353	342				
10/25/2017						571		88	290
11/15/2017	241		90	582			325		
2/27/2018		43	79	542	393	582		99	
2/28/2018							84		313
3/8/2018	213								
7/11/2018						593		119	320
7/12/2018	198								
11/6/2018		65	85	512	412				
11/7/2018	200					504	314	113	325
3/12/2019		43	74	436	433	465			
3/13/2019	201						656	280	
3/14/2019									340
10/15/2019		70	89	447	461	472			
10/16/2019	126						296	104	
10/17/2019									319
10/18/2019									
3/2/2020		52	67		458	338			
3/3/2020				382			263	123	323
3/4/2020									
3/9/2020	171								
9/22/2020	142	46	74		481	338		105	
9/23/2020							278		317
9/24/2020				283					
3/1/2021		25	62						
3/2/2021					456		256	105	272
3/3/2021						325			
3/4/2021				430					
3/12/2021	124								
9/8/2021			75						
9/9/2021	131	53			433	275	246	99	292
9/10/2021				474					
9/13/2021									
1/18/2022		54	76						

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
1/20/2022									
1/24/2022									294
1/25/2022					465	258	256	120	
1/26/2022				425					
1/28/2022	155								
9/7/2022		34	82						
9/8/2022	129								
9/13/2022								80	289
9/14/2022									
9/15/2022				280	414	377	216		
9/20/2022									

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		396	
9/6/2016			
9/7/2016	353		
12/6/2016			
12/7/2016		400	
12/8/2016	408		
3/28/2017			
3/29/2017		390	
3/30/2017	338		580
5/11/2017			573
5/12/2017			
5/15/2017			
6/15/2017			626
6/16/2017			
7/11/2017			542
7/12/2017	417	360	
8/8/2017			
10/24/2017			523
10/25/2017	343	423	
11/15/2017			
2/27/2018			401
2/28/2018	364	440	
3/8/2018			
7/11/2018	393	457	334
7/12/2018			
11/6/2018			334
11/7/2018	408	461	
3/12/2019			297
3/13/2019	802	113	
3/14/2019			
10/15/2019			
10/16/2019		500	
10/17/2019			302
10/18/2019	403		
3/2/2020			
3/3/2020		526	277
3/4/2020	414		
3/9/2020			
9/22/2020		513	
9/23/2020			267
9/24/2020	411		
3/1/2021			
3/2/2021		513	241
3/3/2021	384		
3/4/2021			
3/12/2021			
9/8/2021			
9/9/2021		480	260
9/10/2021			
9/13/2021	424		
1/18/2022			

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
1/20/2022			238
1/24/2022	426		
1/25/2022		694	
1/26/2022			
1/28/2022			
9/7/2022			
9/8/2022			
9/13/2022			
9/14/2022	434	572	
9/15/2022			
9/20/2022			230

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/30/2016									
8/31/2016									524
9/1/2016							704	845	
9/2/2016	1100	459	502						
9/7/2016						611			
12/6/2016									690
12/7/2016	930								
12/8/2016		491	464			535	587	777	
3/28/2017					1160				545
3/29/2017	923		462						
3/30/2017		436		380				775	
3/31/2017						661	545		
5/12/2017				438	1230				
6/15/2017				458	1290				
7/11/2017					1160				612
7/12/2017	956	505		461					
7/13/2017			492			641	441	789	
10/24/2017					229				
10/25/2017	854	474	477			626			650
10/26/2017				446			444	753	
11/15/2017					1330				
2/27/2018					1380				698
2/28/2018	888	480	476			616			
3/1/2018				454			435		
3/2/2018								704	
7/11/2018	826	485				638			
7/12/2018			486	432			372	705	
11/6/2018					1480				809
11/7/2018	834	516	511			626	348	678	
11/8/2018				450					
3/12/2019					1490				711
3/13/2019	639	486							
3/14/2019			491	453		630	378	625	
10/15/2019					1520				
10/16/2019									702
10/17/2019	751	498				612	327		
10/18/2019			480	448				593	
3/2/2020					1540				759
3/3/2020		490	452						
3/4/2020	761			408		721	334	630	
9/22/2020	724				1400	547			716
9/23/2020							229	575	
9/24/2020		494	455	456					
3/1/2021					1140				
3/2/2021	742								730
3/3/2021		459	442	425		531	228	521	
9/9/2021		396		455					
9/10/2021	678		468		1520		274	532	792
9/13/2021						508			
1/20/2022		451	434	453		504			
1/21/2022	702						289		
1/24/2022					1520			500	810

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
1/25/2022									
1/26/2022									
9/13/2022						540	277	527	
9/14/2022									850
9/15/2022	618	440							
9/16/2022			462						
9/19/2022					1670				
9/20/2022				511					

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	693	414
8/31/2016		
9/1/2016		
9/2/2016		
9/7/2016		
12/6/2016	727	449
12/7/2016		
12/8/2016		
3/28/2017		404
3/29/2017	654	
3/30/2017		
3/31/2017		
5/12/2017		
6/15/2017		
7/11/2017	679	436
7/12/2017		
7/13/2017		
10/24/2017	468	599
10/25/2017		
10/26/2017		
11/15/2017		
2/27/2018	520	482
2/28/2018		
3/1/2018		
3/2/2018		
7/11/2018		532
7/12/2018		
11/6/2018	456	554
11/7/2018		
11/8/2018		
3/12/2019	438	493
3/13/2019		
3/14/2019		
10/15/2019		
10/16/2019	374	
10/17/2019		550
10/18/2019		
3/2/2020		
3/3/2020	369	444
3/4/2020		
9/22/2020		461
9/23/2020	333	
9/24/2020		
3/1/2021		
3/2/2021	291	449
3/3/2021		
9/9/2021		
9/10/2021		466
9/13/2021	306	
1/20/2022		
1/21/2022		
1/24/2022		

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/17/2022 3:09 PM View: Constituents View

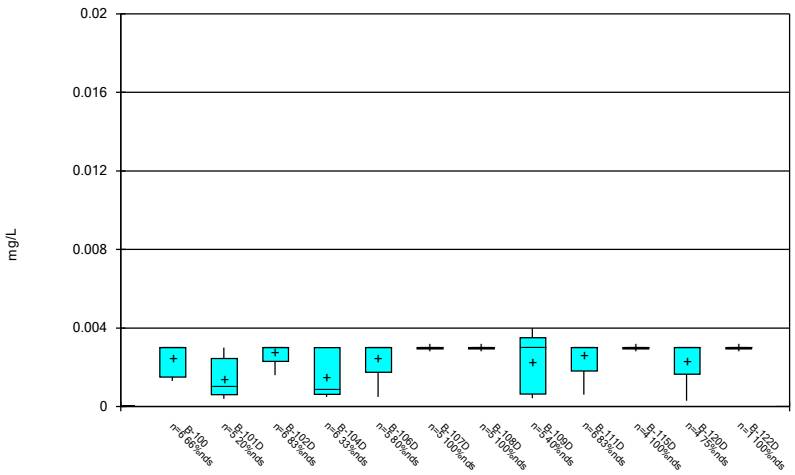
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
1/25/2022	281	
1/26/2022		409
9/13/2022		
9/14/2022		
9/15/2022	234	
9/16/2022		
9/19/2022		456
9/20/2022		

FIGURE B.

Sanitas™ v.9.6.35 . UG

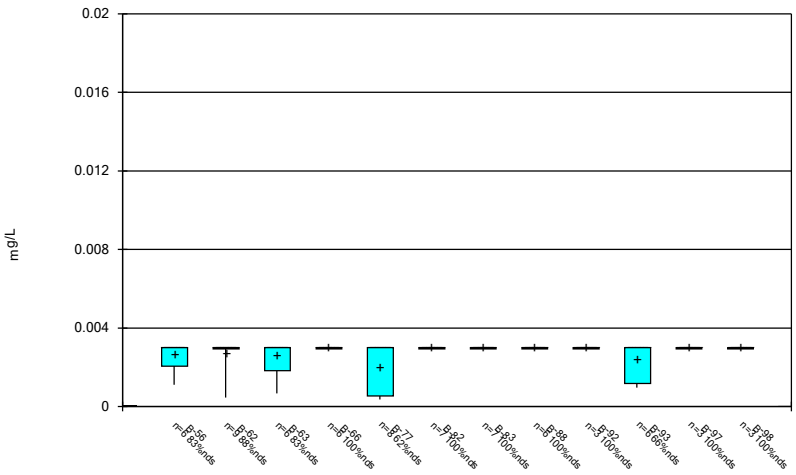
Box & Whiskers Plot



Constituent: Antimony Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

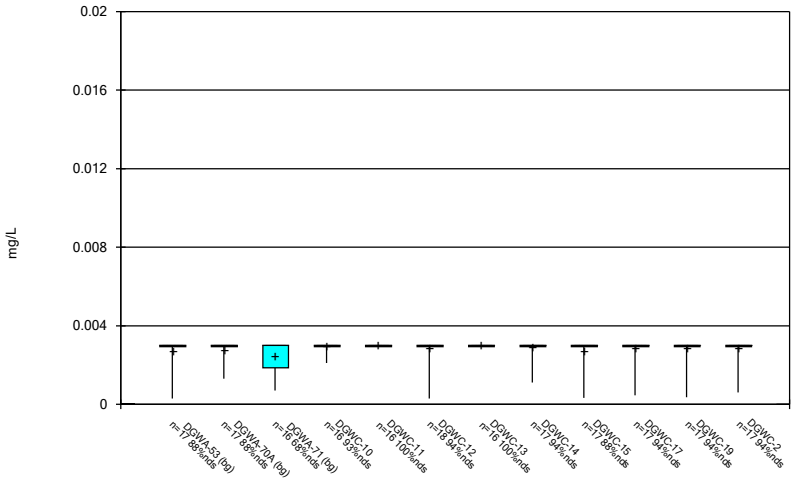
Box & Whiskers Plot



Constituent: Antimony Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

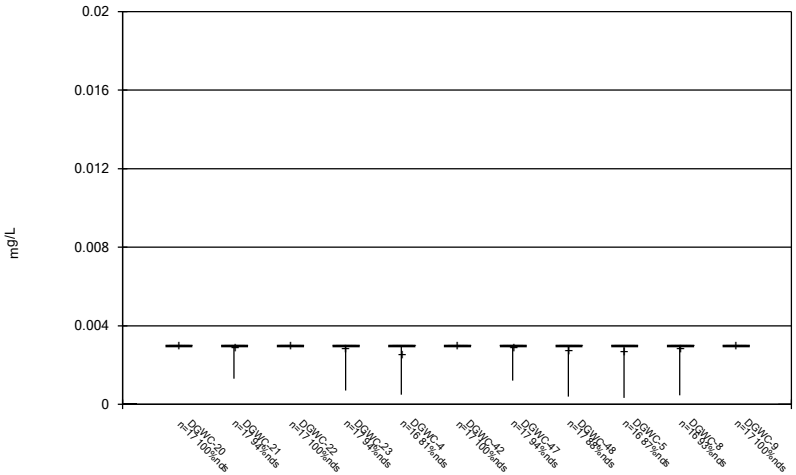
Box & Whiskers Plot



Constituent: Antimony Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



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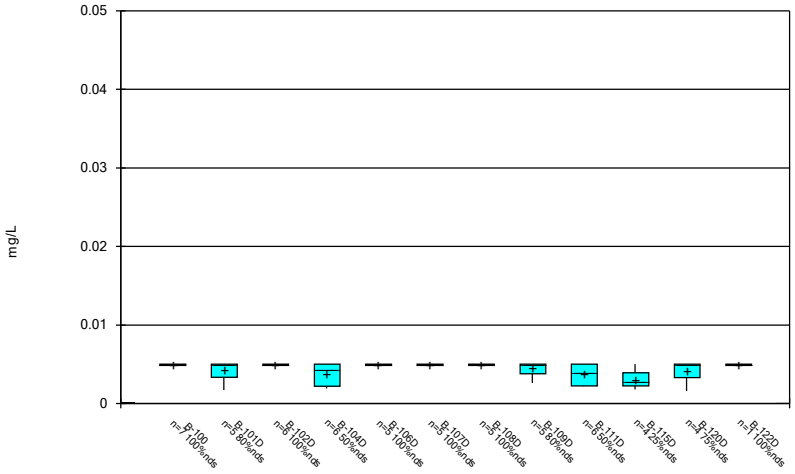
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

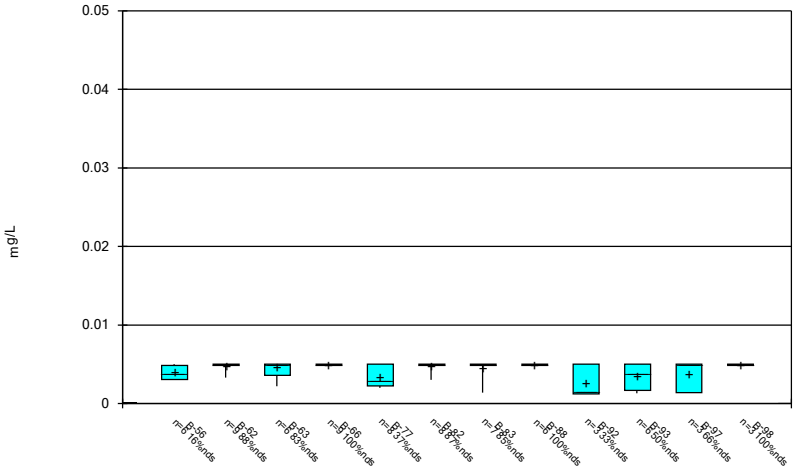
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



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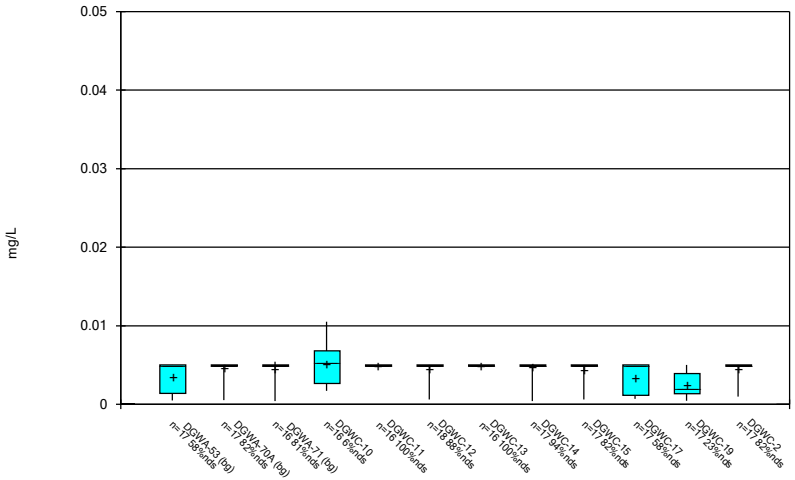
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



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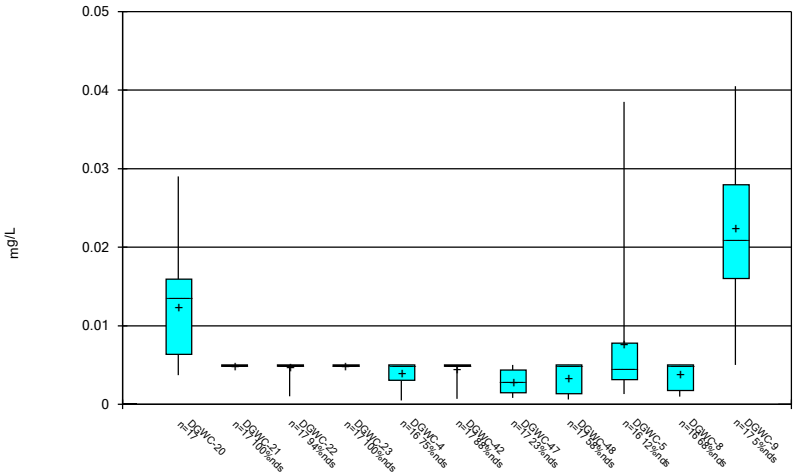
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



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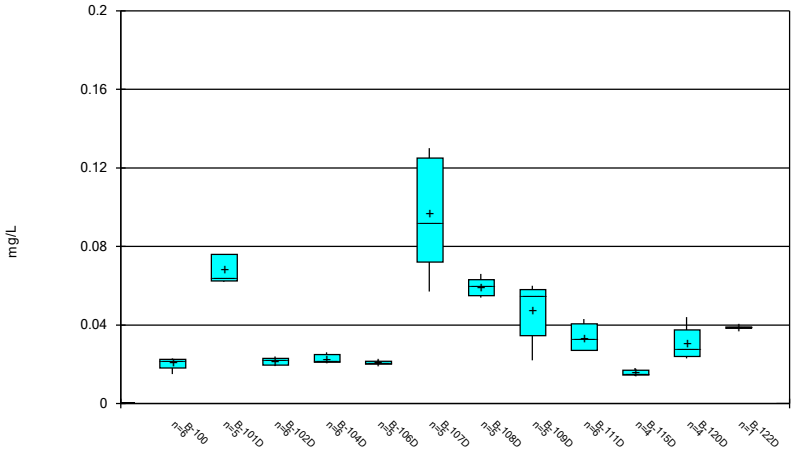
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

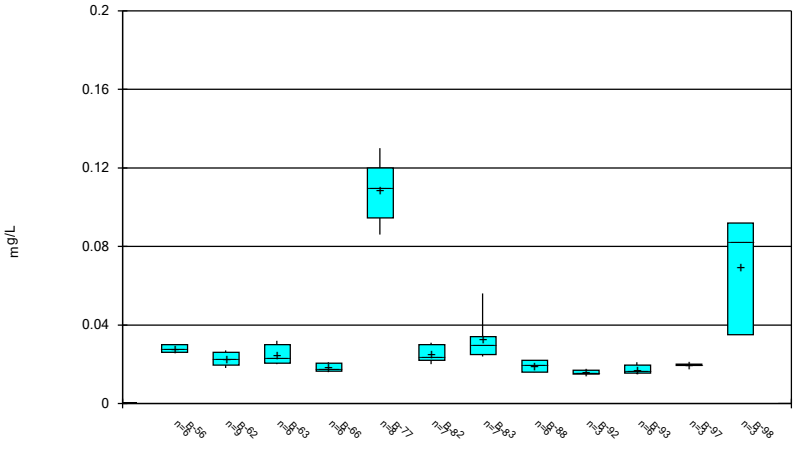
Box & Whiskers Plot



Constituent: Barium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

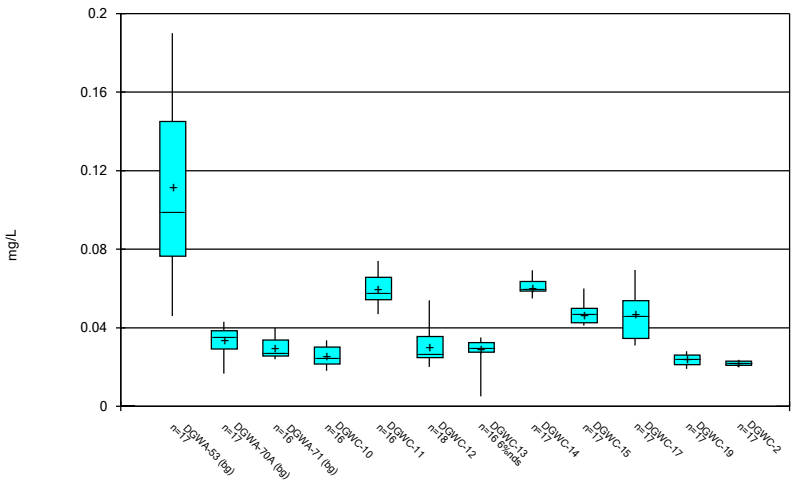
Box & Whiskers Plot



Constituent: Barium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

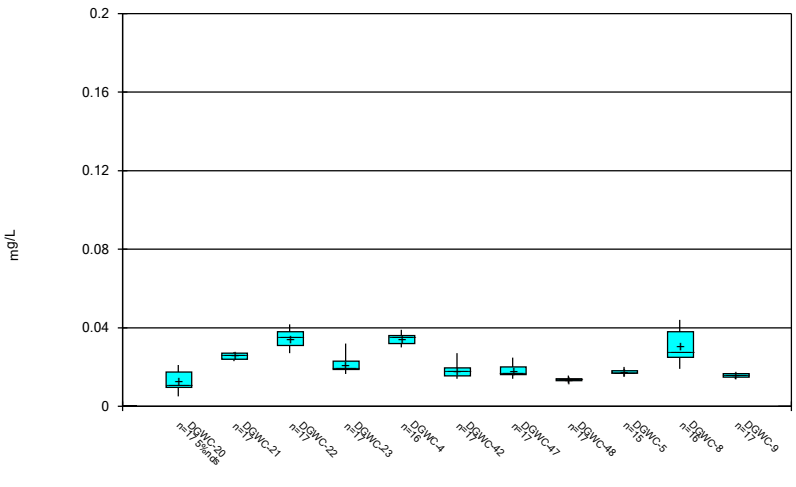
Box & Whiskers Plot



Constituent: Barium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

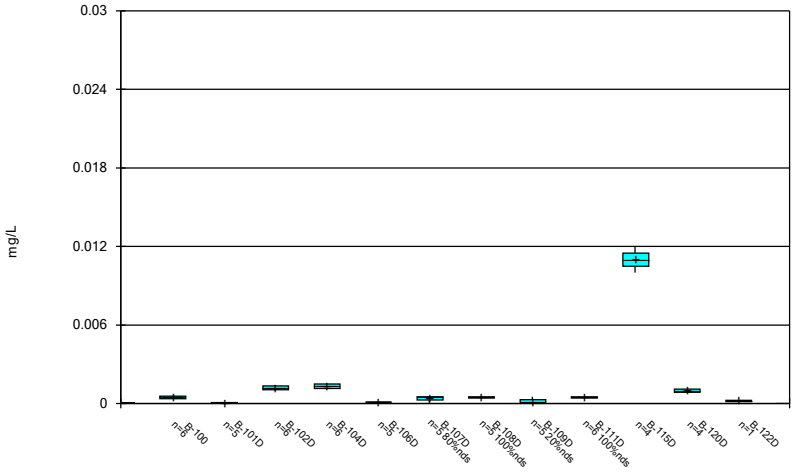
Box & Whiskers Plot



Constituent: Barium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

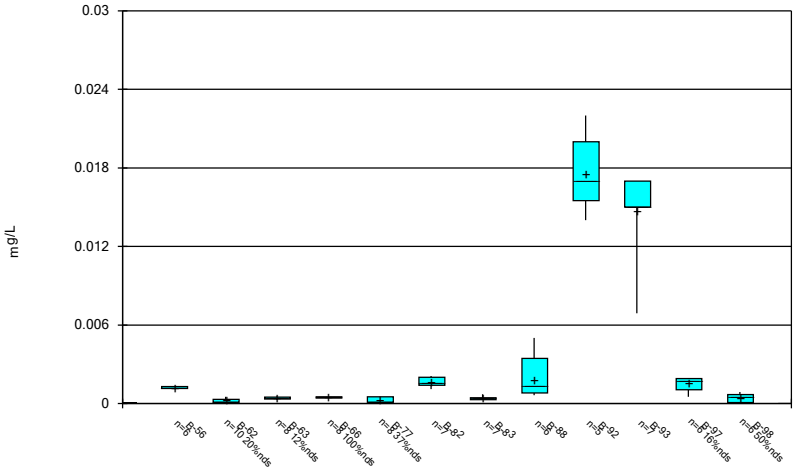
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



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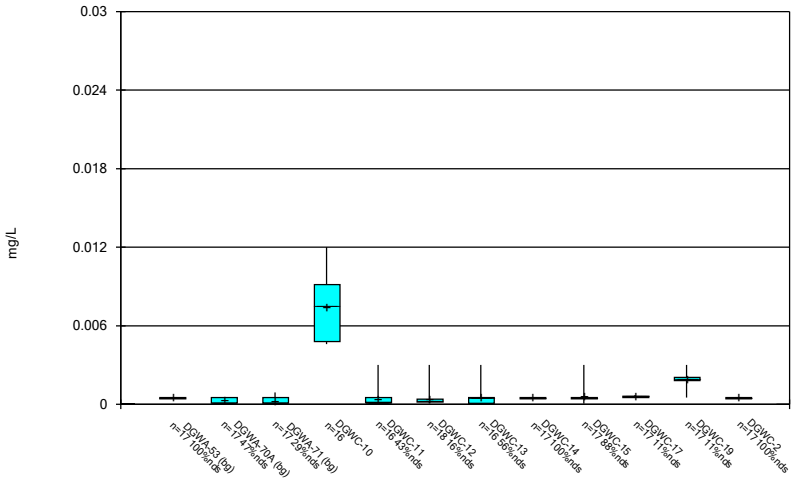
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

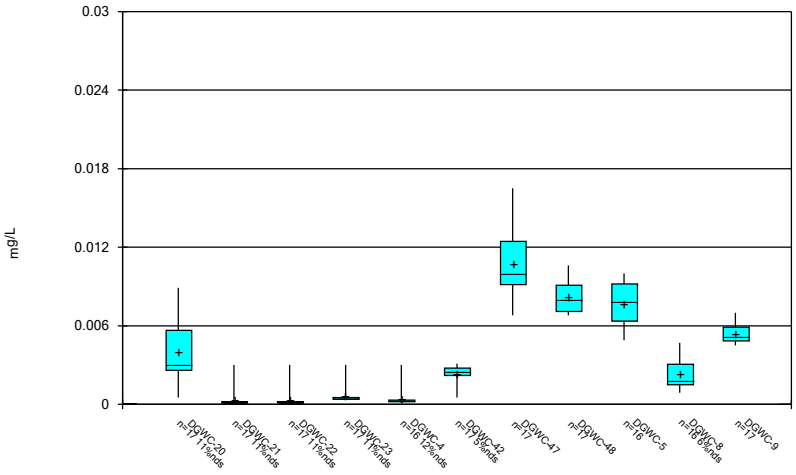
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

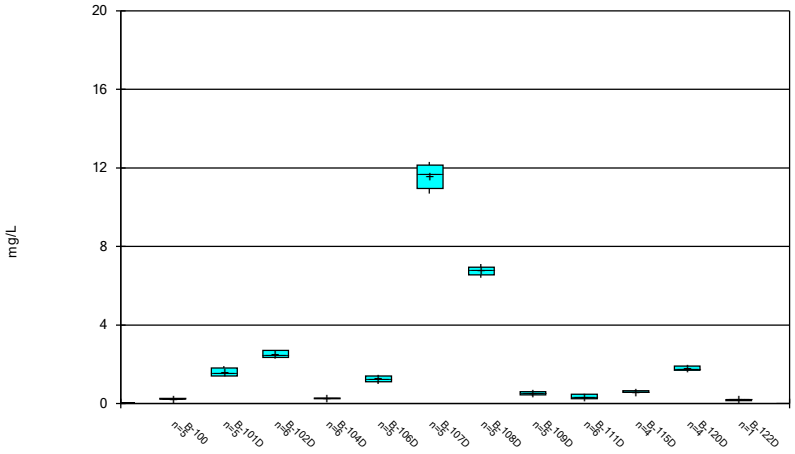
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

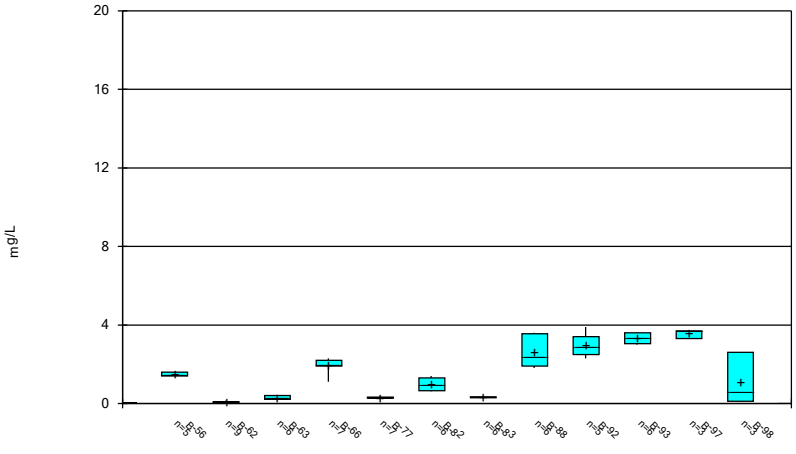
Box & Whiskers Plot



Constituent: Boron Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

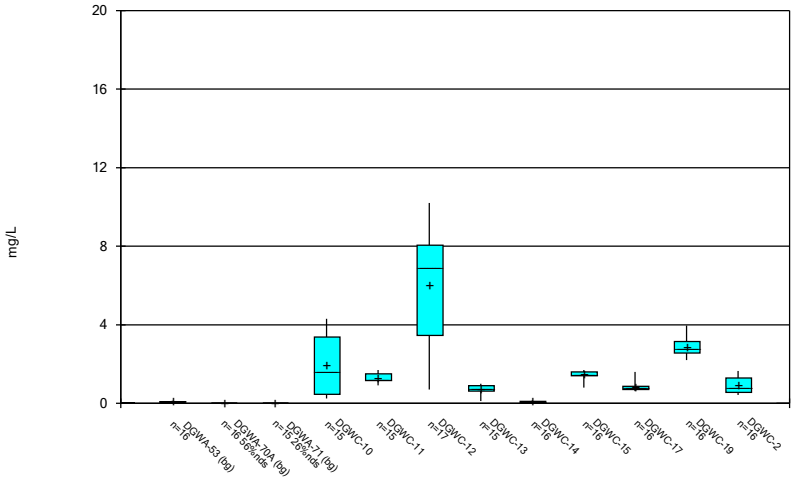
Box & Whiskers Plot



Constituent: Boron Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

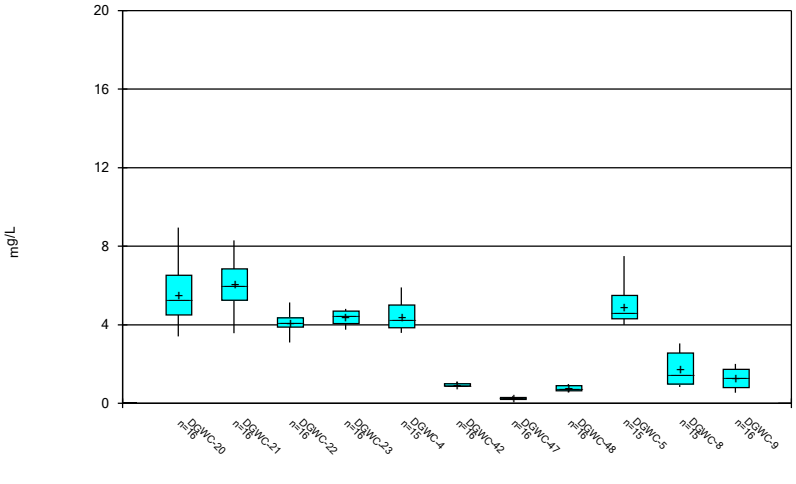
Box & Whiskers Plot



Constituent: Boron Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

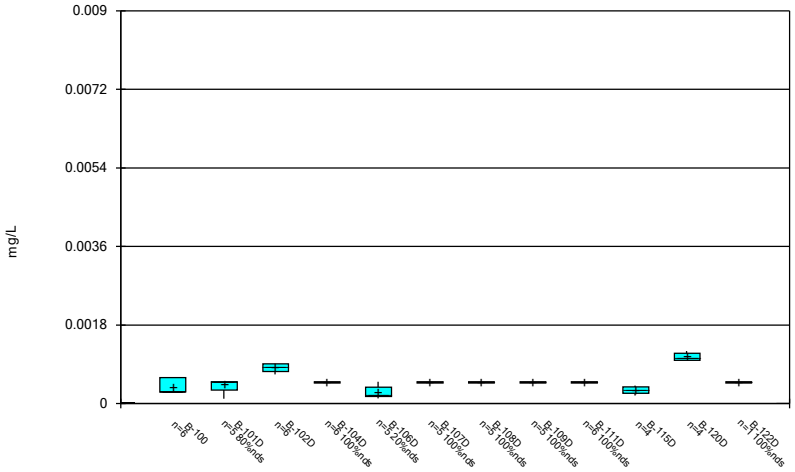
Box & Whiskers Plot



Constituent: Boron Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

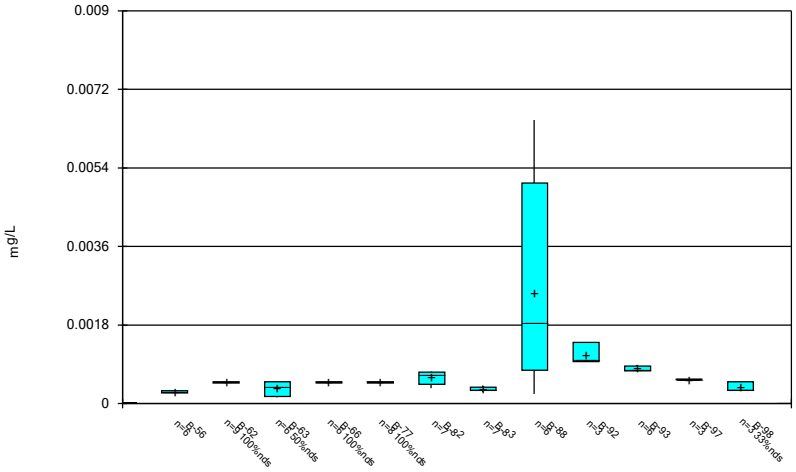
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

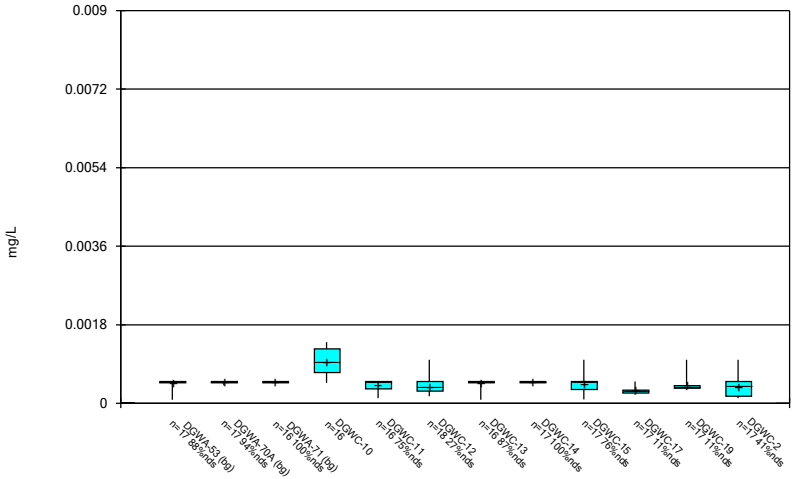
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

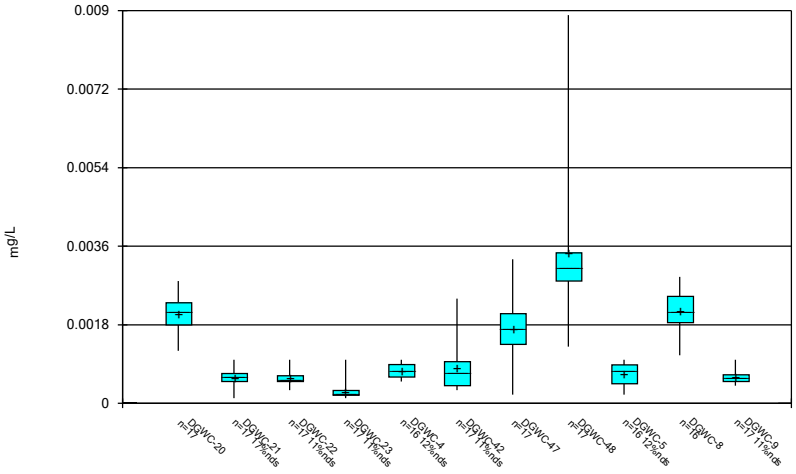
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

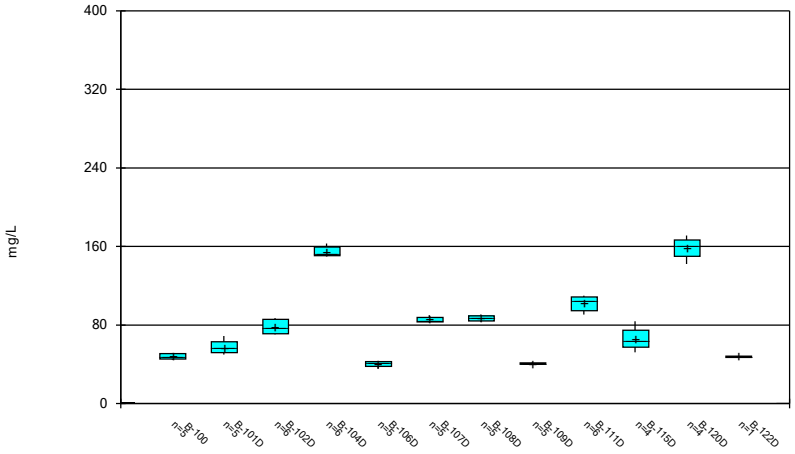
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

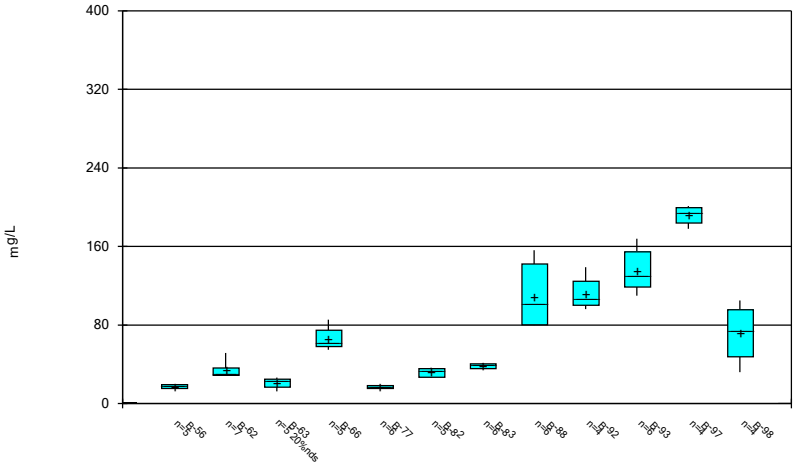
Box & Whiskers Plot



Constituent: Calcium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

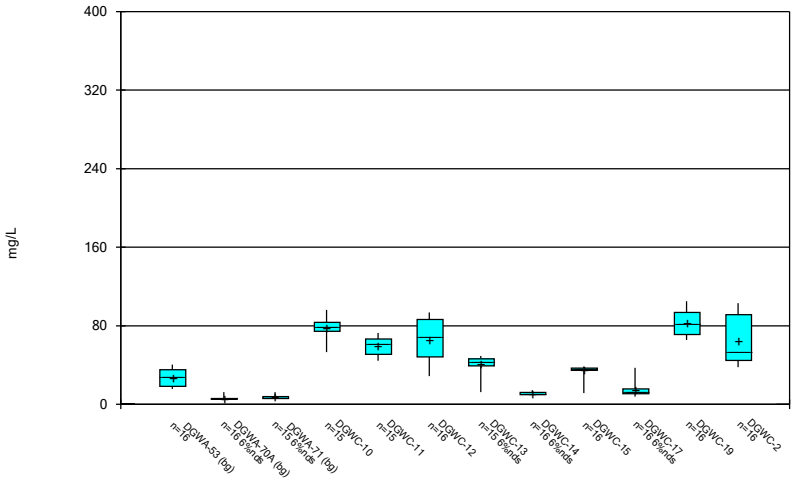
Box & Whiskers Plot



Constituent: Calcium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

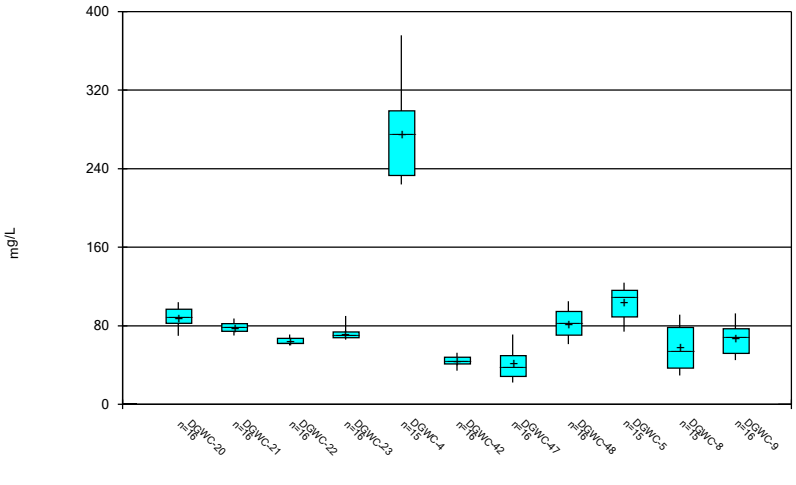
Box & Whiskers Plot



Constituent: Calcium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

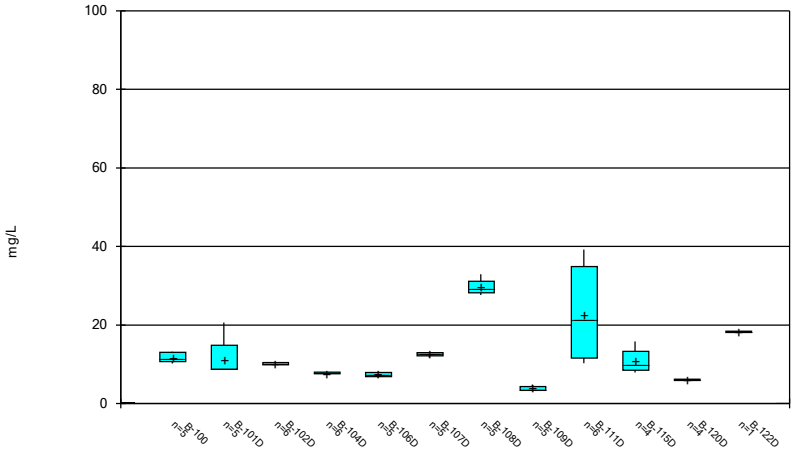
Box & Whiskers Plot



Constituent: Calcium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

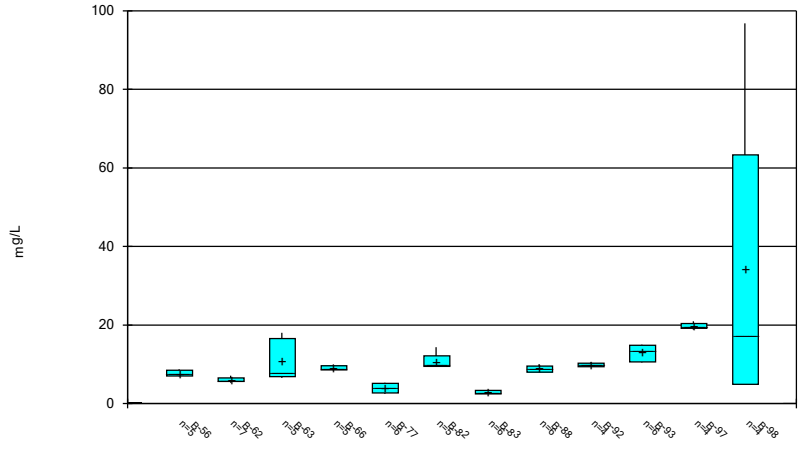
Box & Whiskers Plot



Constituent: Chloride Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

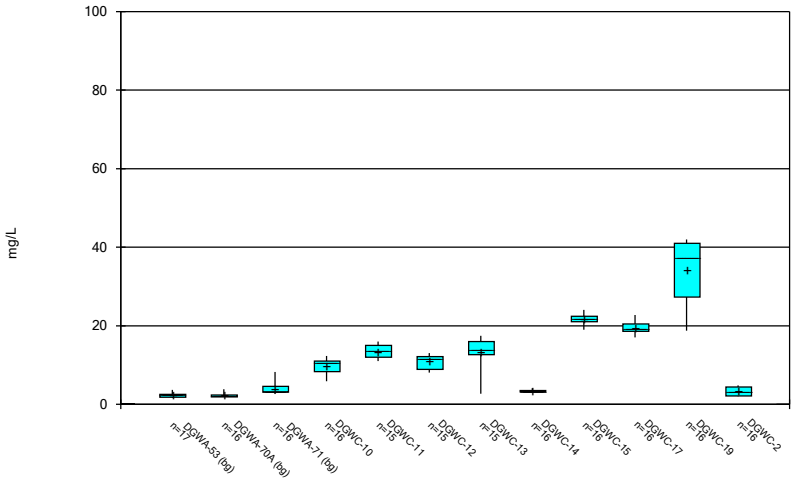
Box & Whiskers Plot



Constituent: Chloride Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

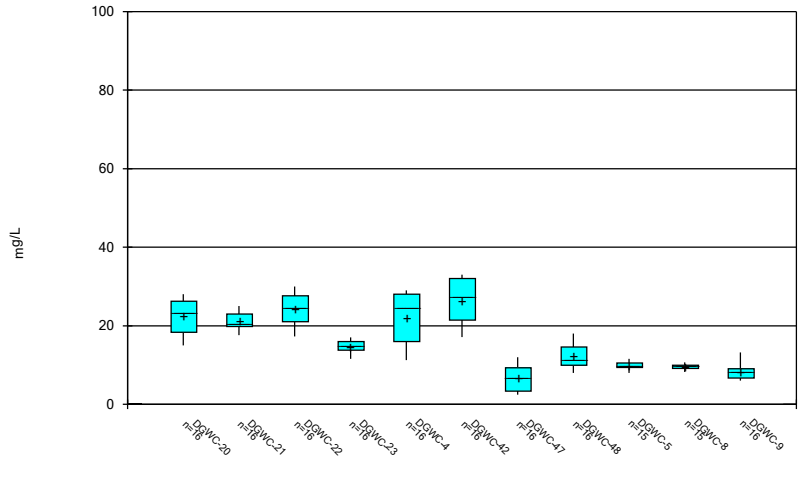
Box & Whiskers Plot



Constituent: Chloride Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

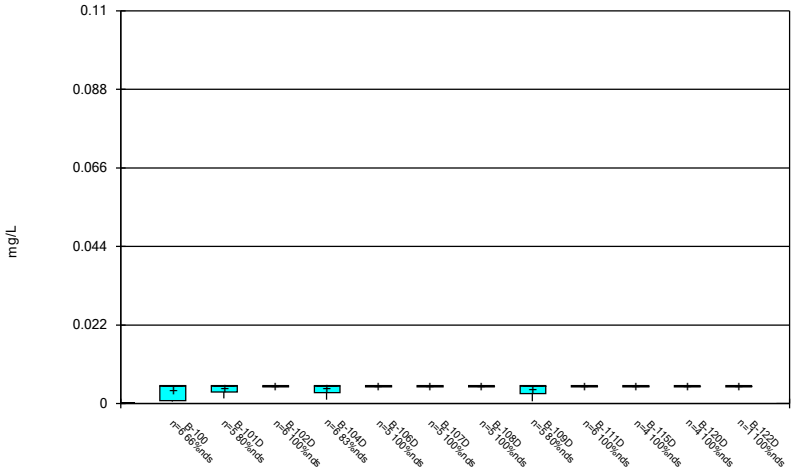
Box & Whiskers Plot



Constituent: Chloride Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

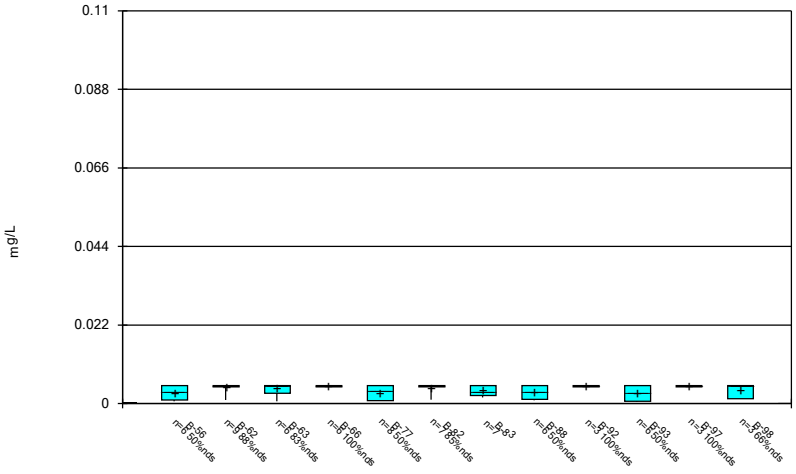
Box & Whiskers Plot



Constituent: Chromium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

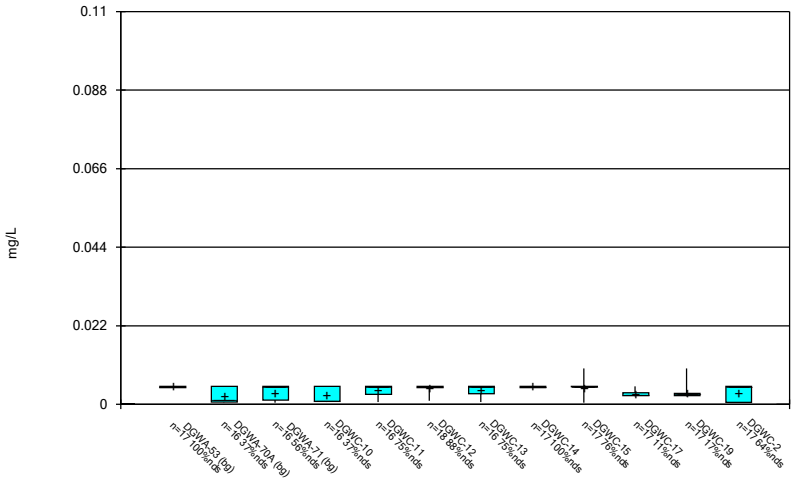
Box & Whiskers Plot



Constituent: Chromium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



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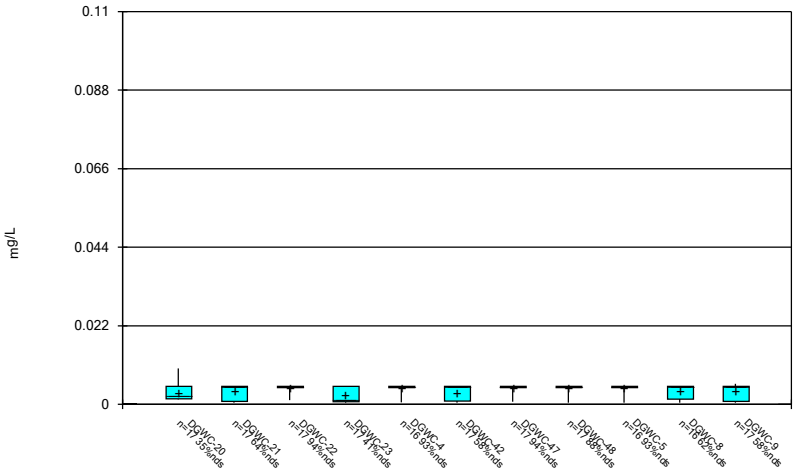
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

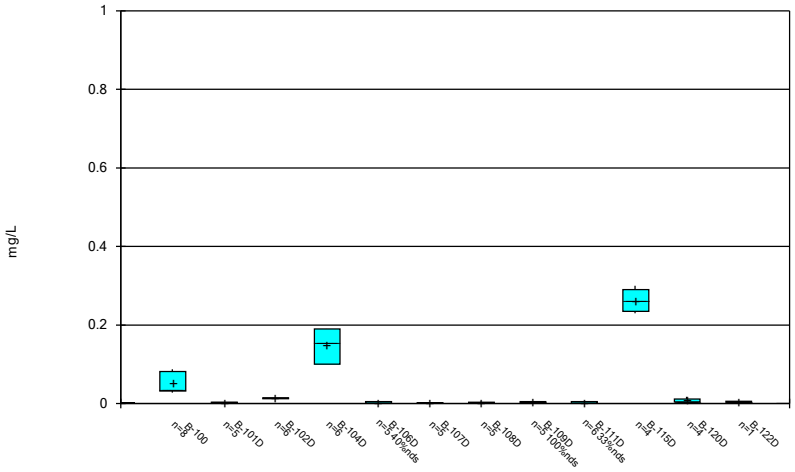
Box & Whiskers Plot



Constituent: Chromium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

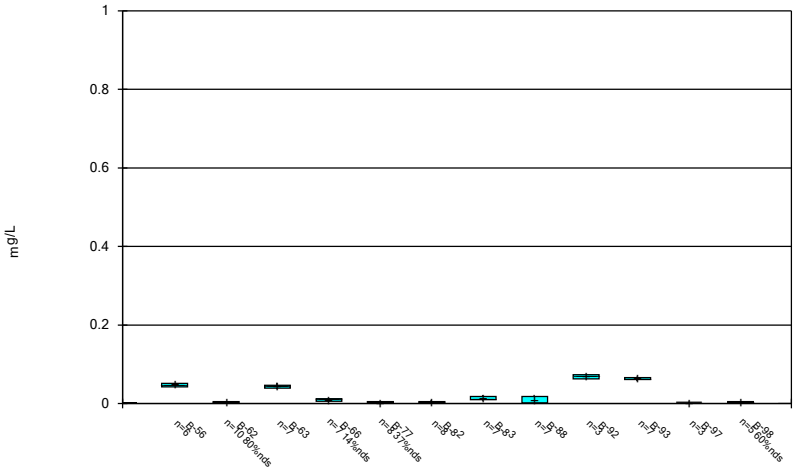
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

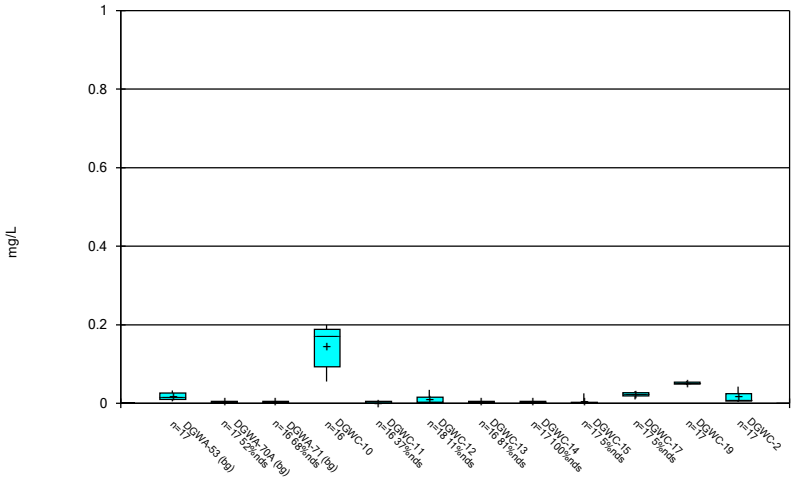
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

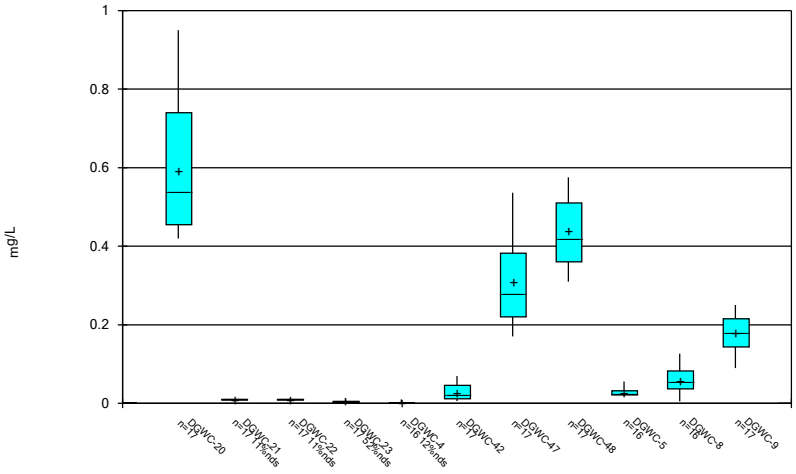
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

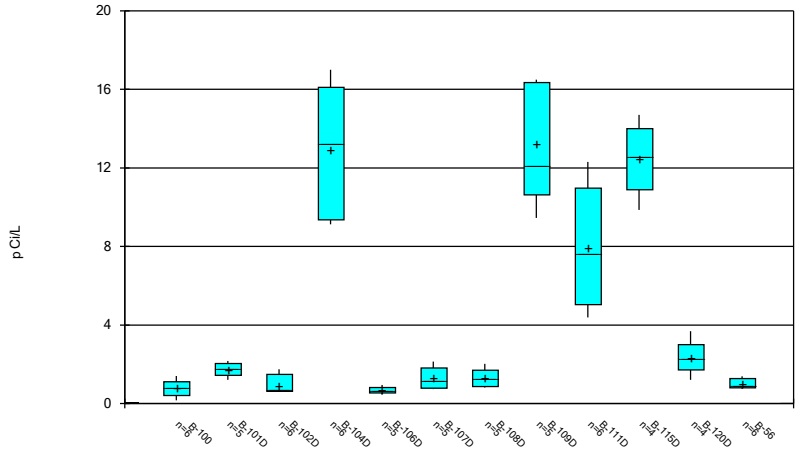
Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



Constituent: Cobalt Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

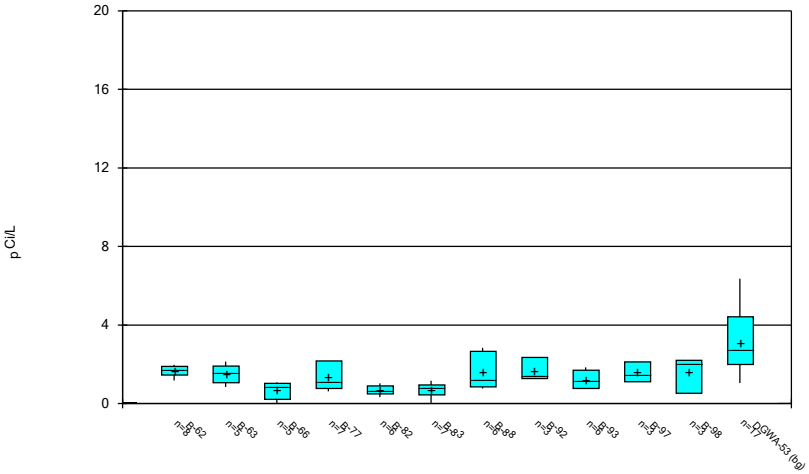
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

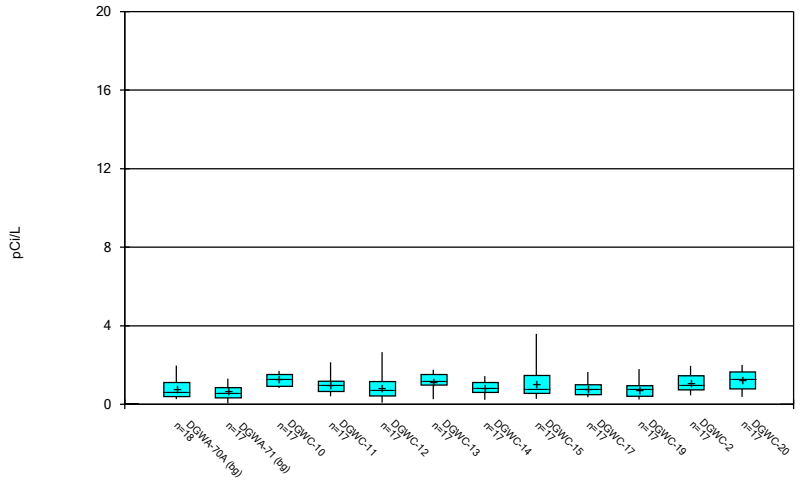
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

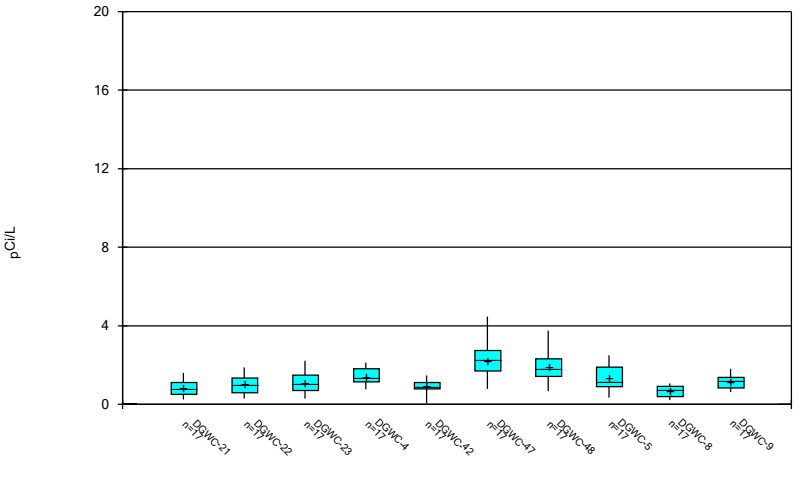
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

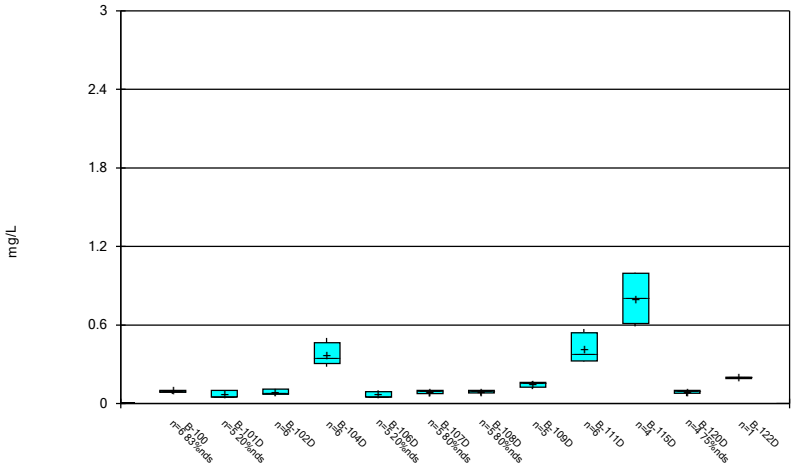
Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

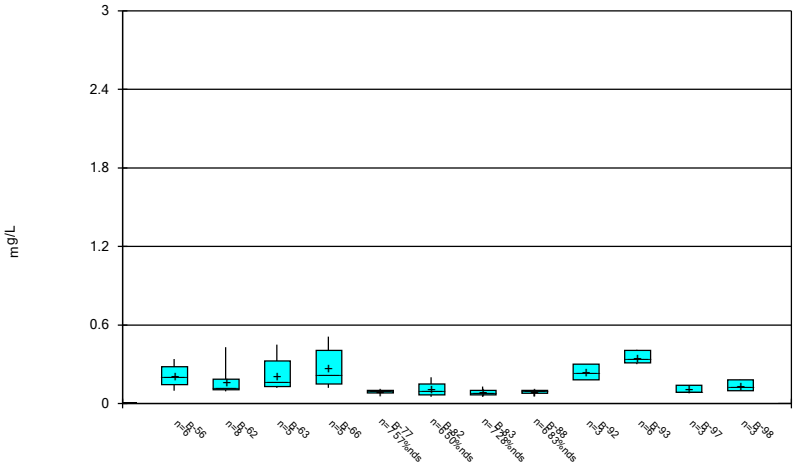
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

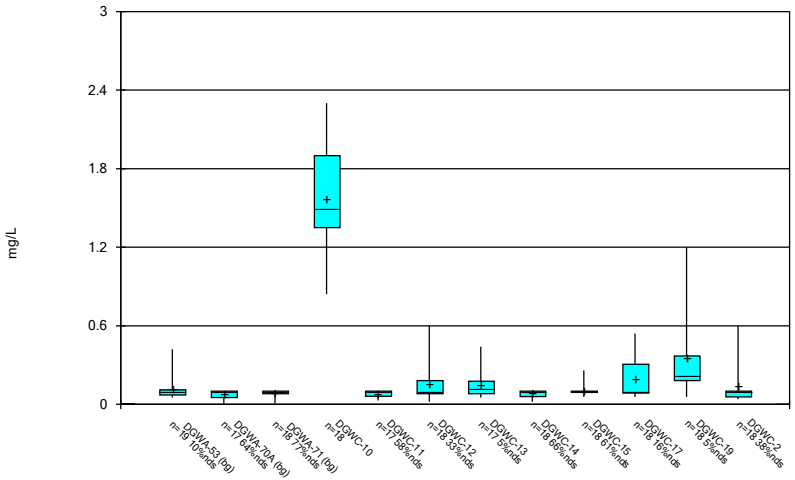
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

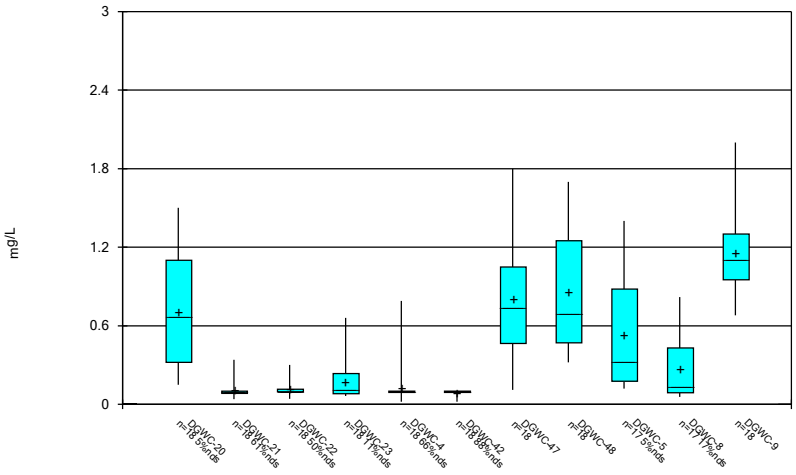
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

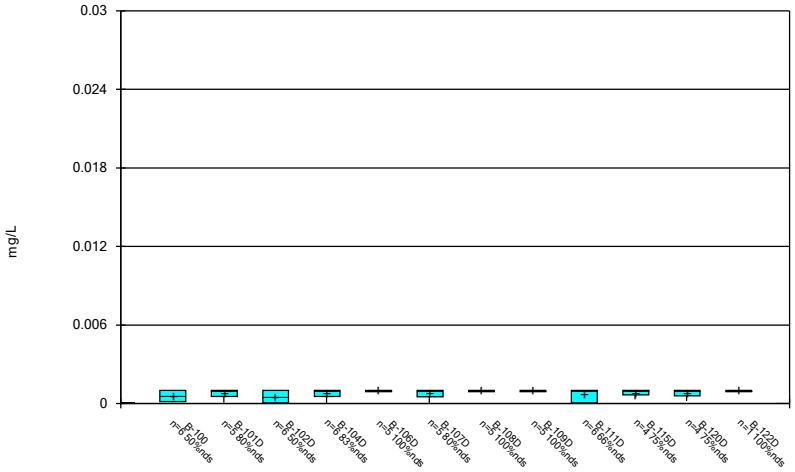
Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



Constituent: Fluoride Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

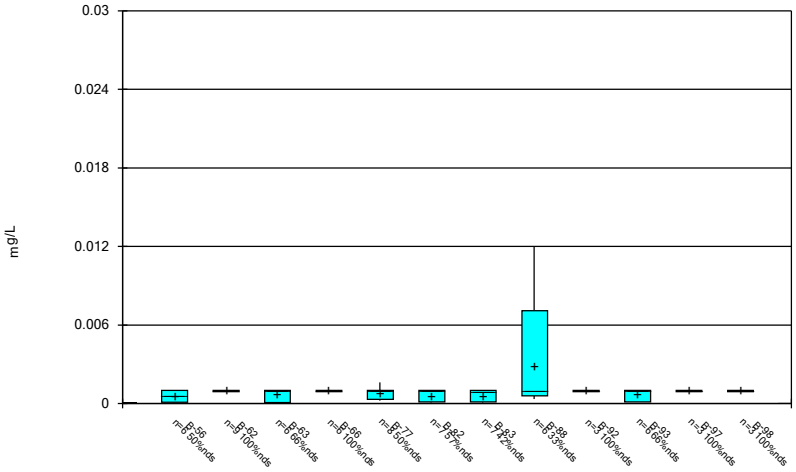
Box & Whiskers Plot



Constituent: Lead Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

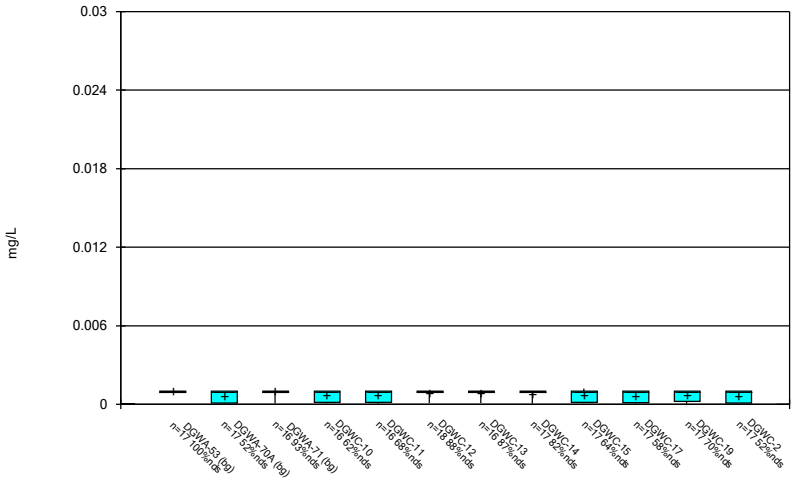
Box & Whiskers Plot



Constituent: Lead Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

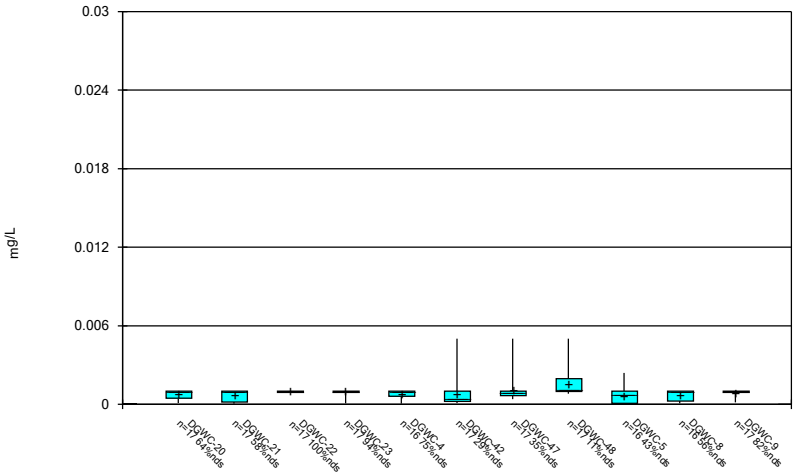
Box & Whiskers Plot



Constituent: Lead Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

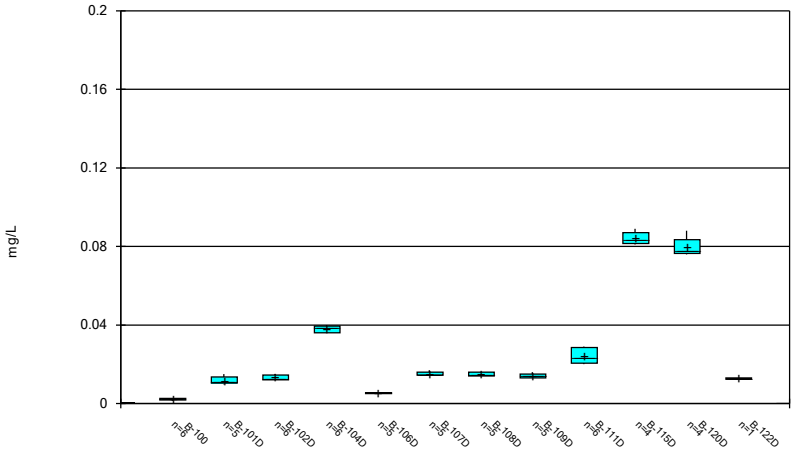
Box & Whiskers Plot



Constituent: Lead Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

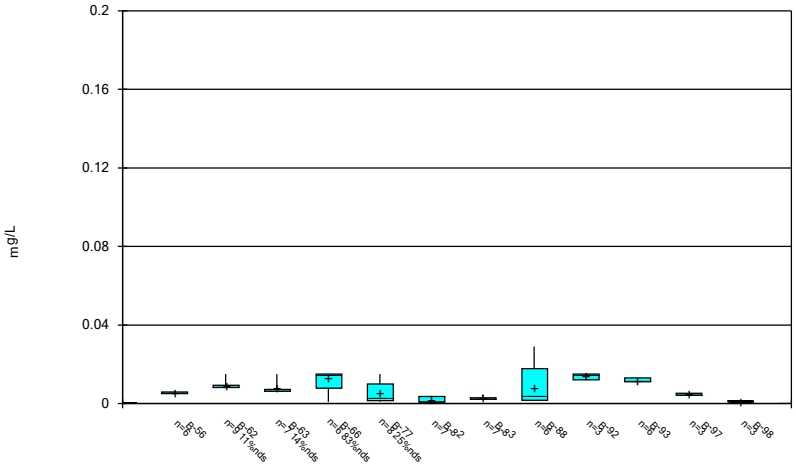
Box & Whiskers Plot



Constituent: Lithium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

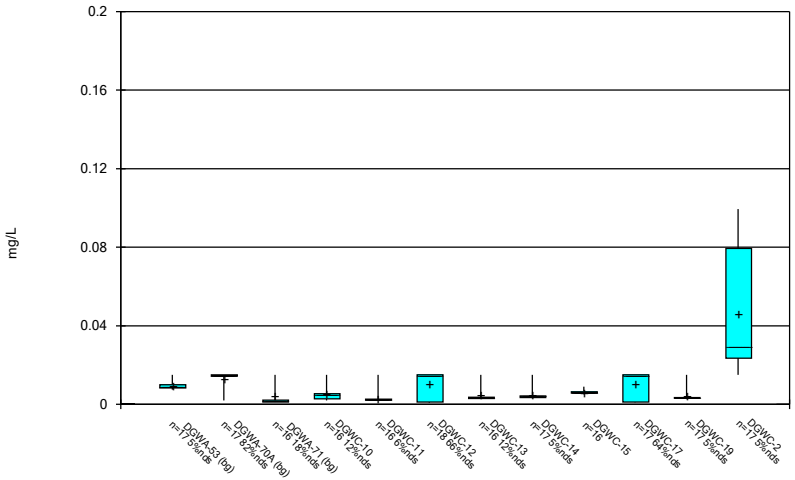
Box & Whiskers Plot



Constituent: Lithium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

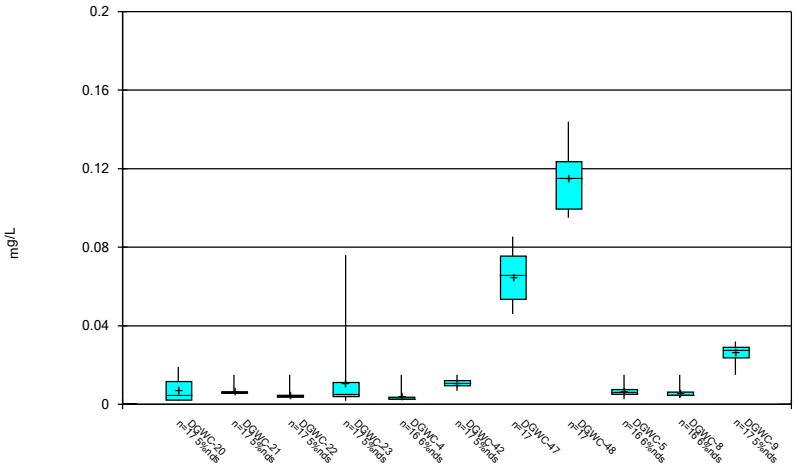
Box & Whiskers Plot



Constituent: Lithium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

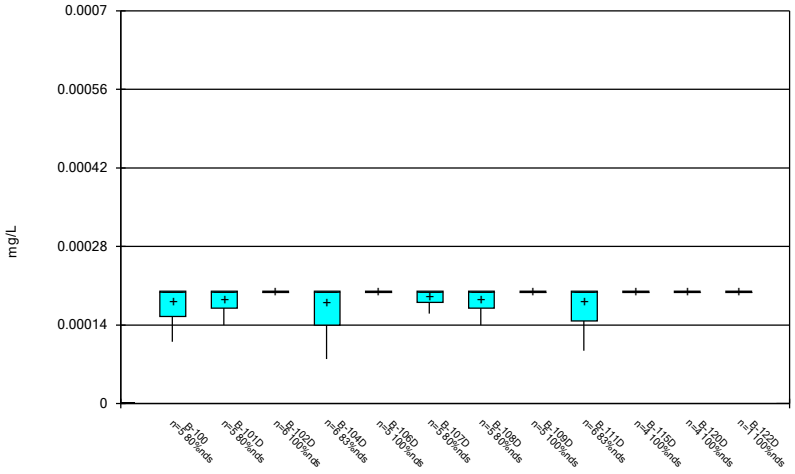
Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



Constituent: Lithium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

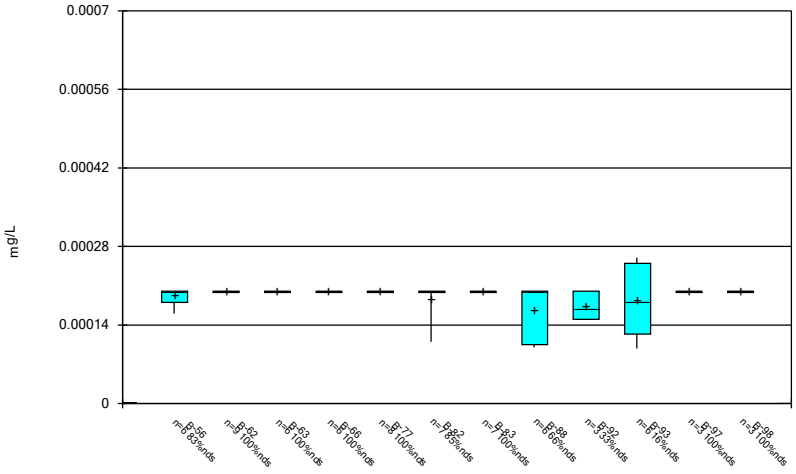
Box & Whiskers Plot



Constituent: Mercury Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

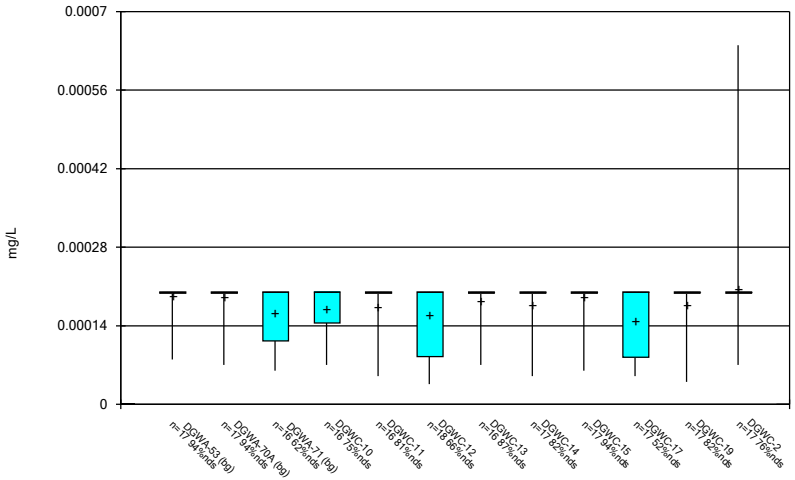
Box & Whiskers Plot



Constituent: Mercury Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

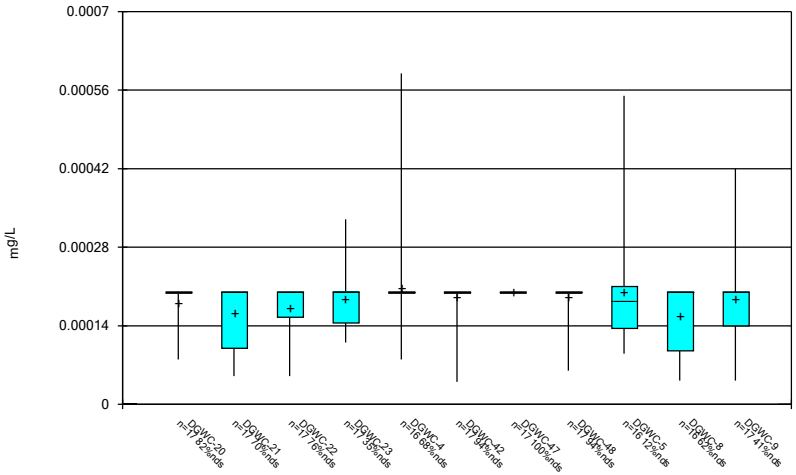
Box & Whiskers Plot



Constituent: Mercury Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

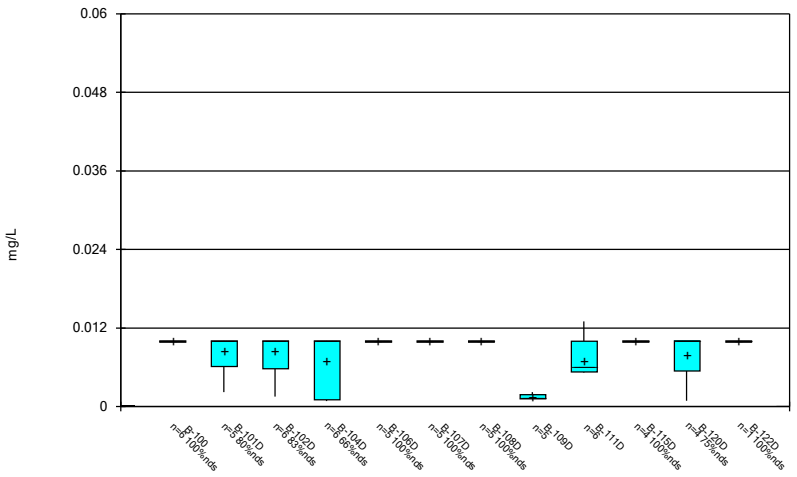
Box & Whiskers Plot



Constituent: Mercury Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

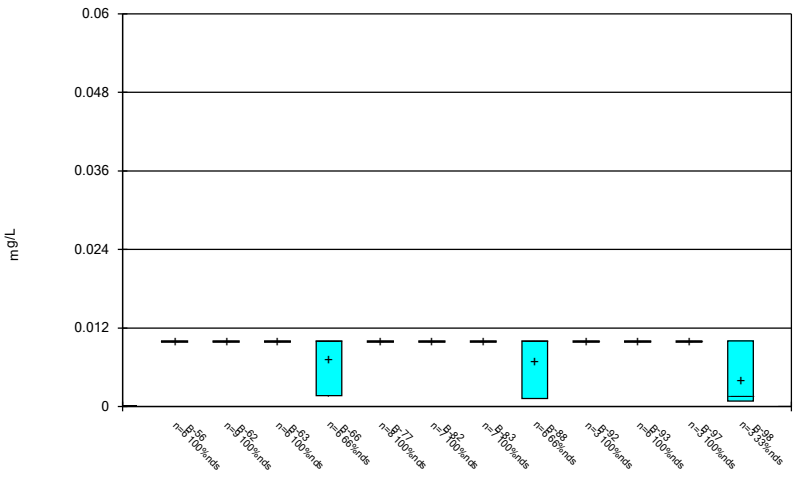
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

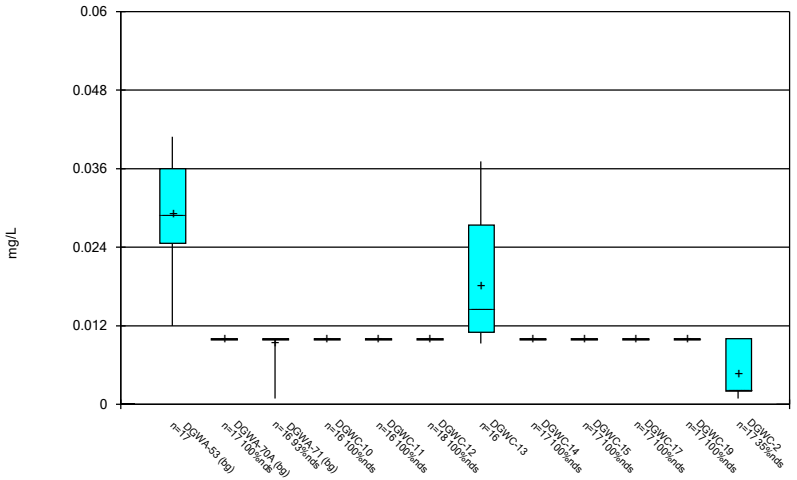
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

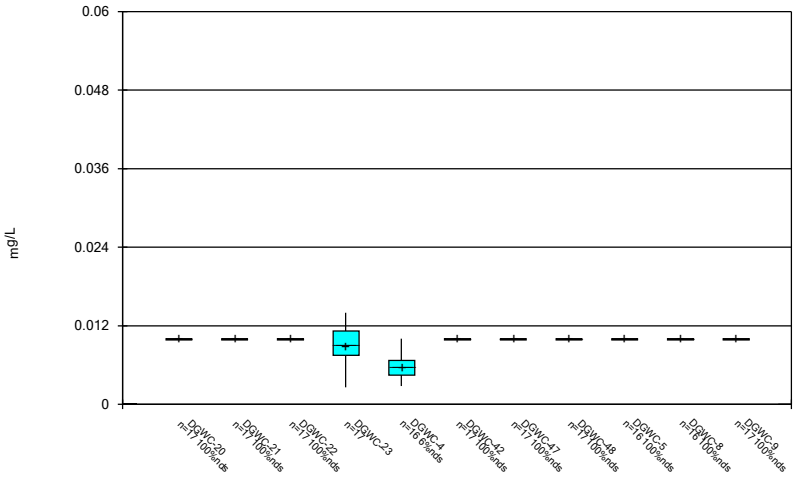
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

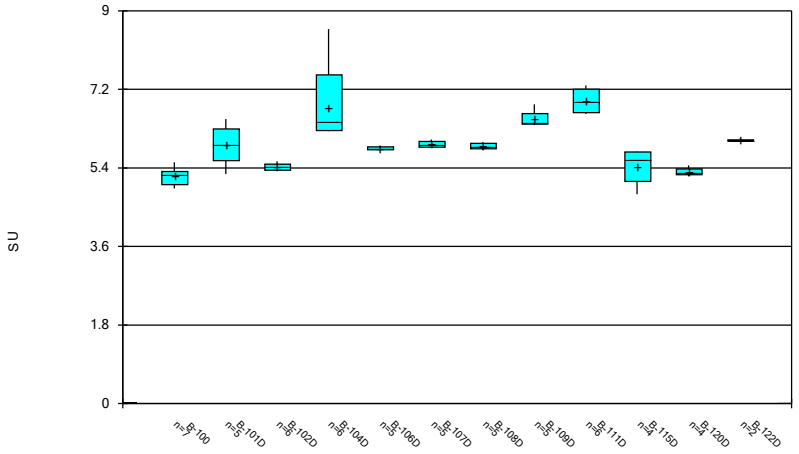
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

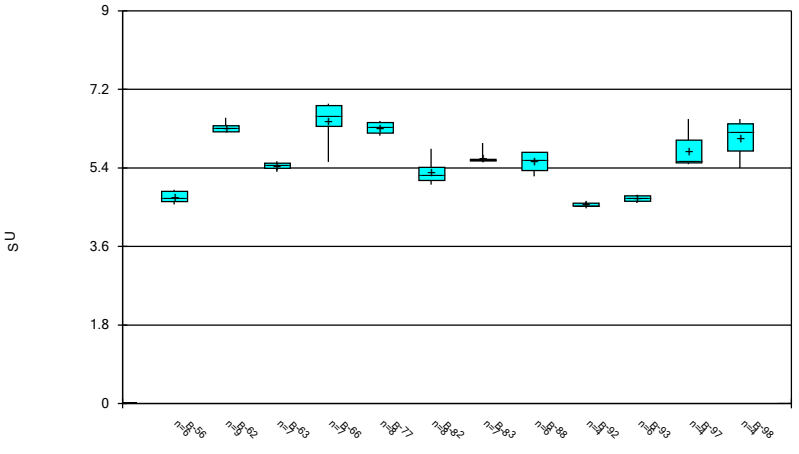
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

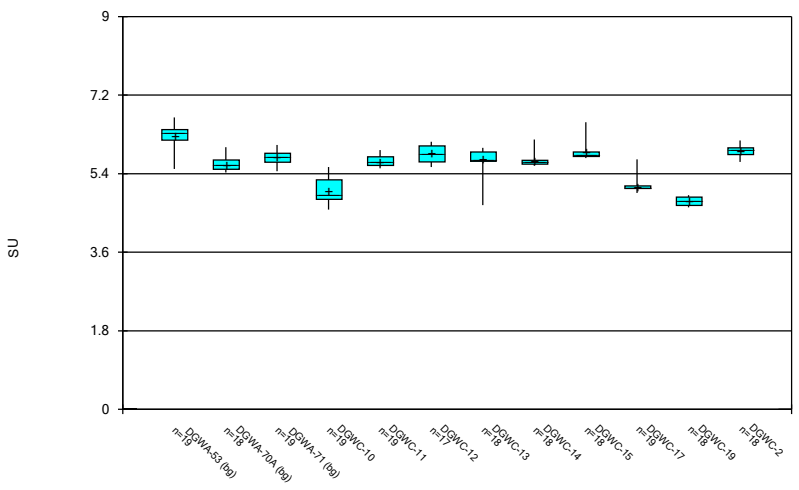
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

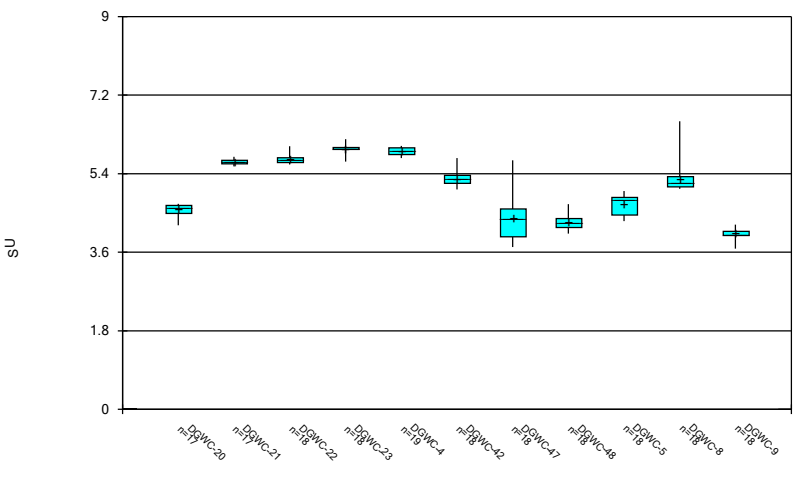
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

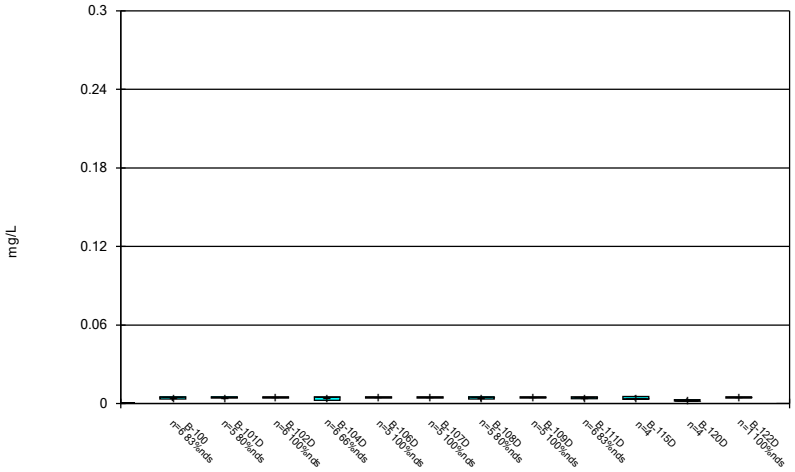
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

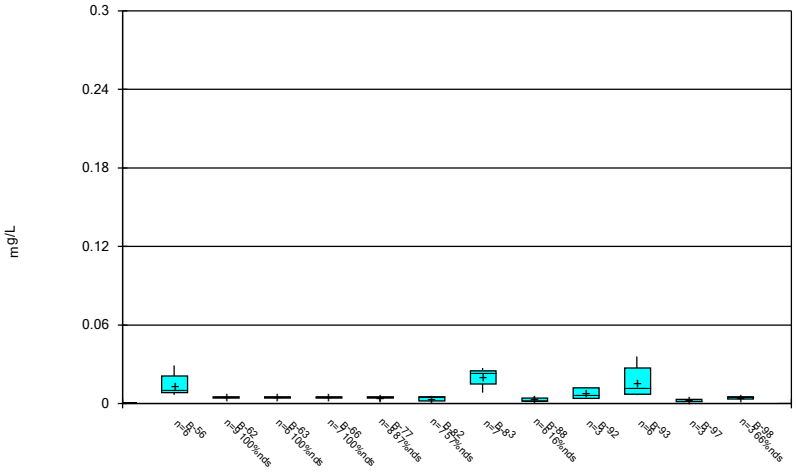
Box & Whiskers Plot



Constituent: Selenium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

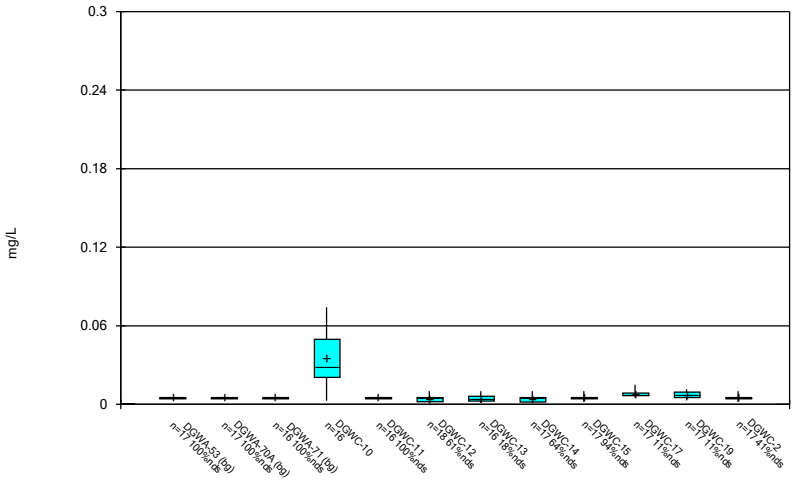
Box & Whiskers Plot



Constituent: Selenium Analysis Run 11/17/2022 10:52 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

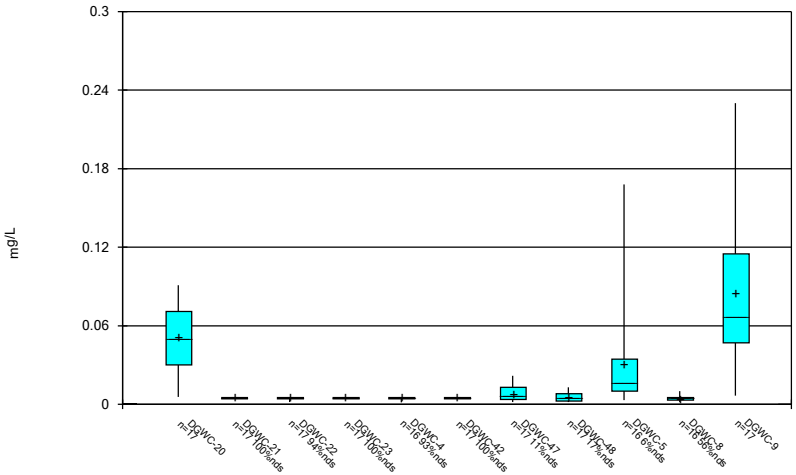
Box & Whiskers Plot



Constituent: Selenium Analysis Run 11/17/2022 10:53 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

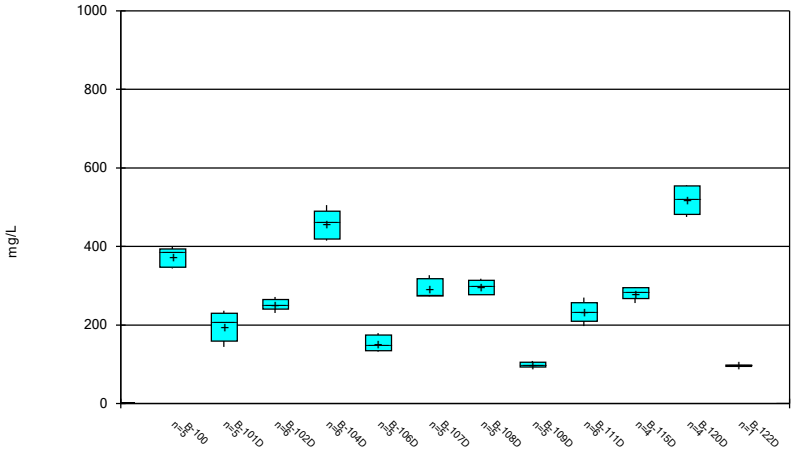
Box & Whiskers Plot



Constituent: Selenium Analysis Run 11/17/2022 10:53 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

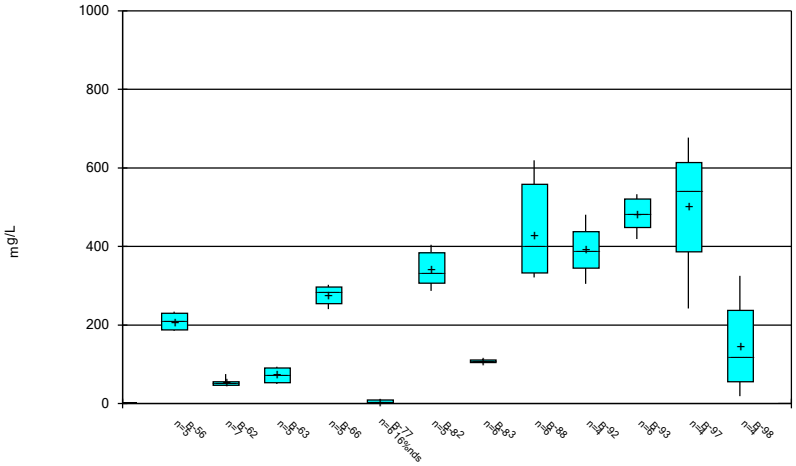
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 11/17/2022 10:53 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

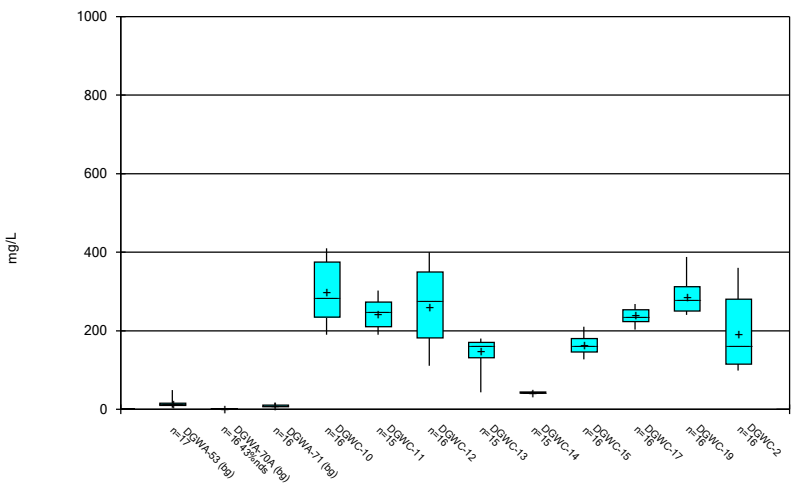
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 11/17/2022 10:53 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

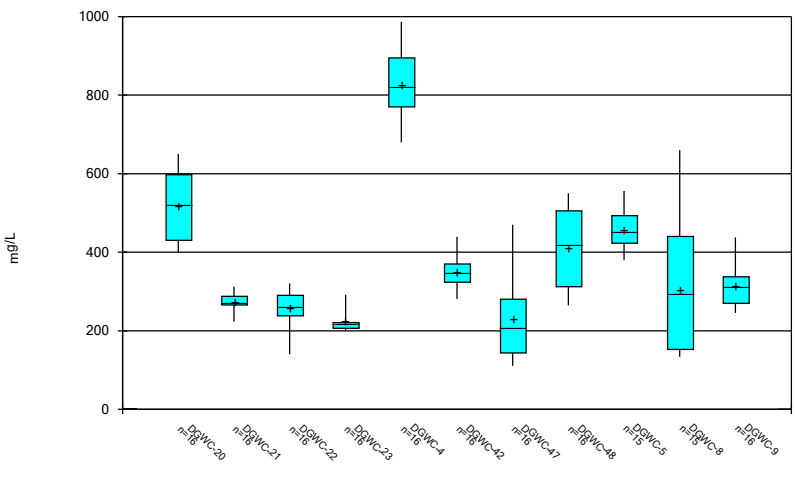
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 11/17/2022 10:53 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

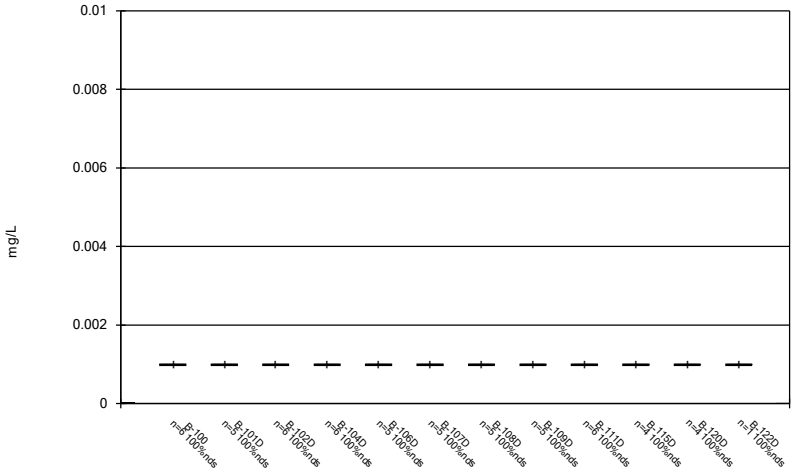
Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



Constituent: Sulfate Analysis Run 11/17/2022 10:53 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

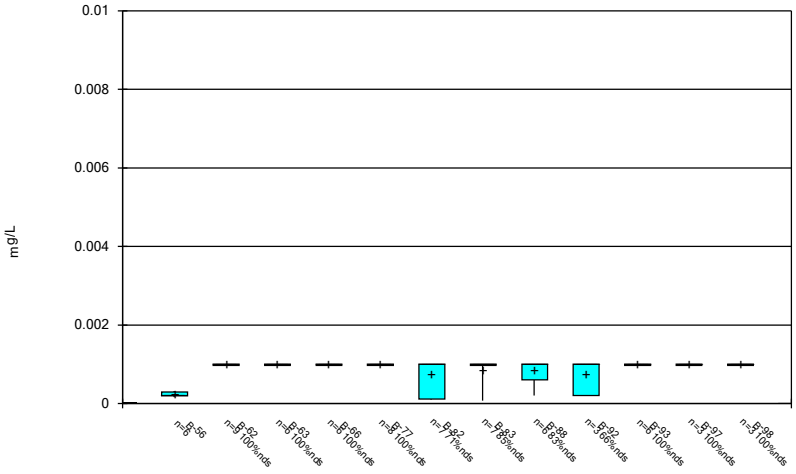
Box & Whiskers Plot



Constituent: Thallium Analysis Run 11/17/2022 10:53 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

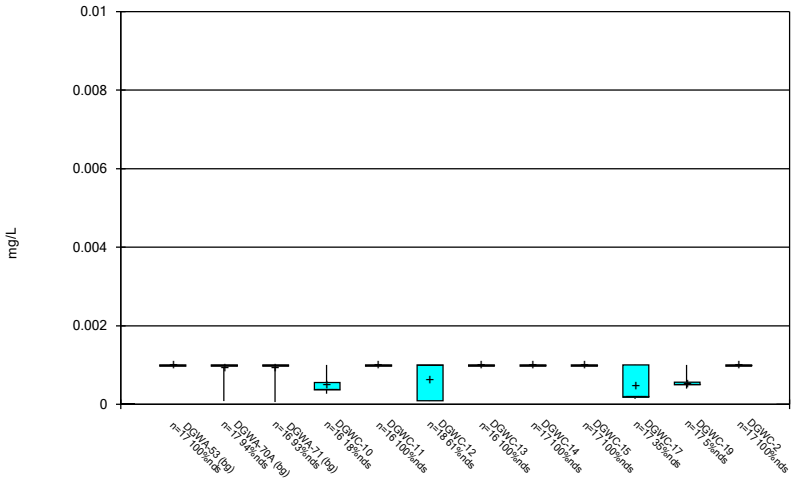
Box & Whiskers Plot



Constituent: Thallium Analysis Run 11/17/2022 10:53 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

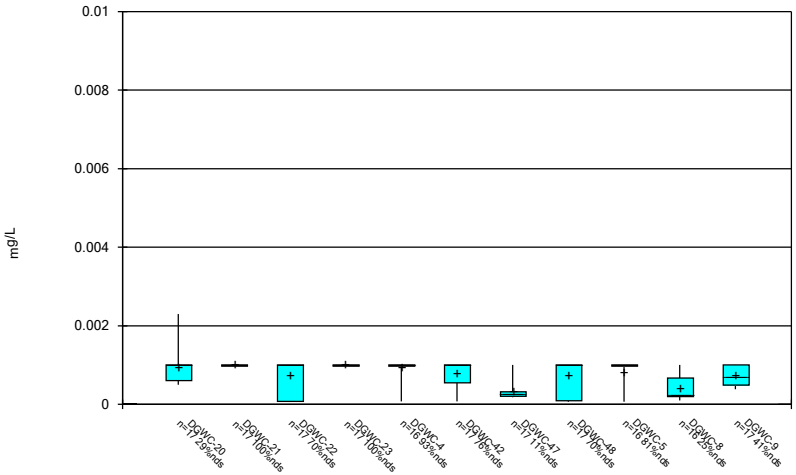
Box & Whiskers Plot



Constituent: Thallium Analysis Run 11/17/2022 10:53 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

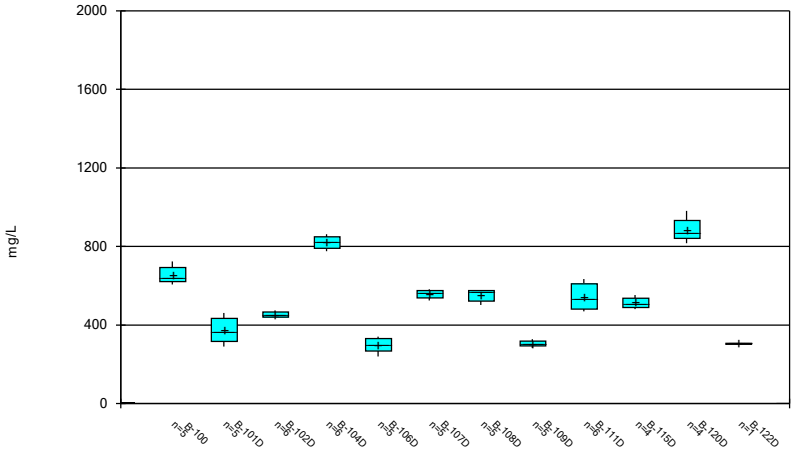
Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 11/17/2022 10:53 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

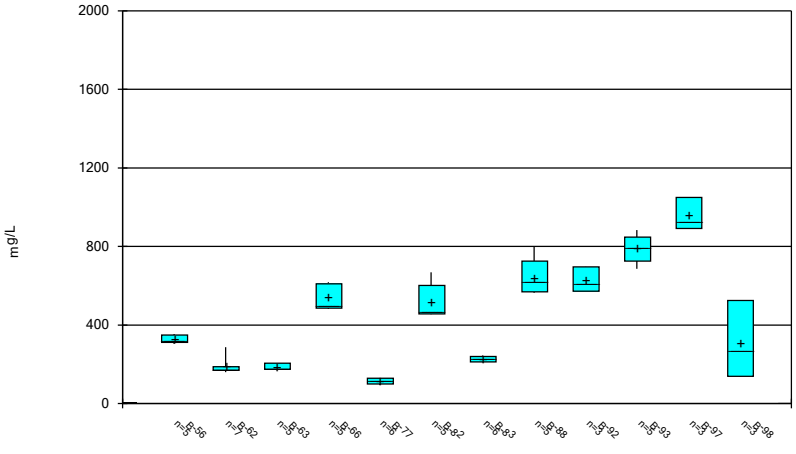
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 11/17/2022 10:53 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

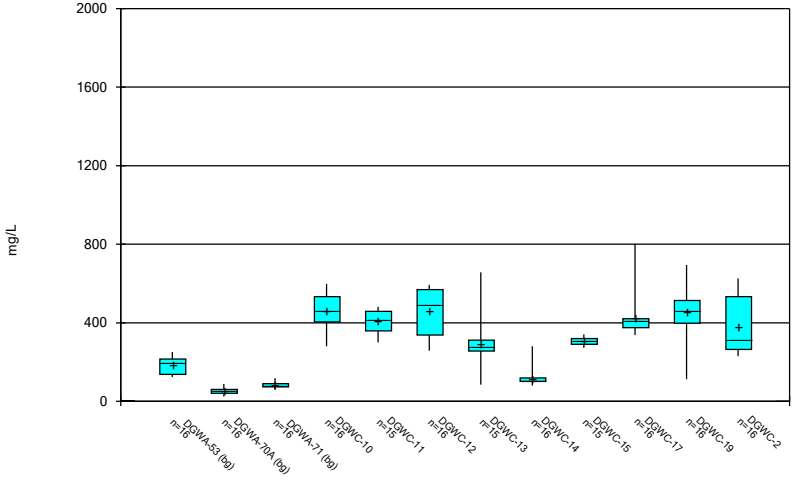
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 11/17/2022 10:53 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

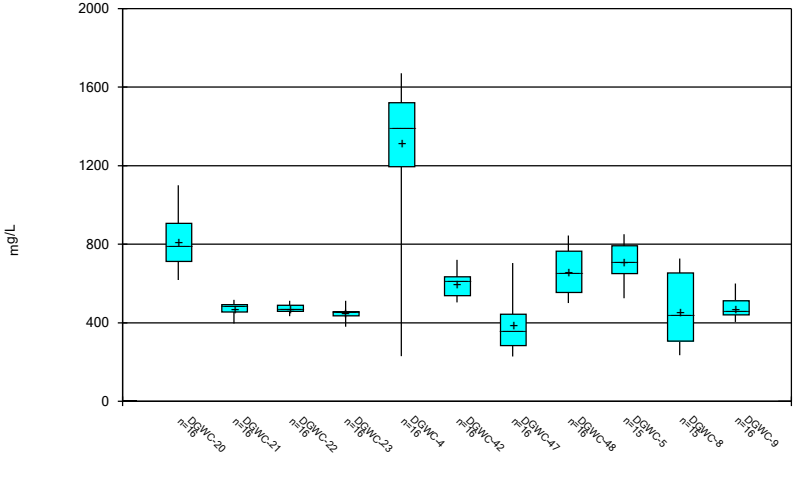
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 11/17/2022 10:53 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 11/17/2022 10:53 PM View: Constituents View
Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE C.

Outlier Summary

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/16/2022, 12:38 AM

	DGWC-5 Barium (mg/L)	DGWC-12 Chloride (mg/L)	DGWA-70A Chromium (mg/L)	DGWA-70A Fluoride (mg/L)	DGWC-15 Lithium (mg/L)	DGWC-14 Sulfate (mg/L)	DGWA-53 Total Dissolved Solids (mg/L)	DGWC-15 Total Dissolved Solids (mg/L)
8/31/2016	0.0266 (O)							
12/7/2016		20 (O)						
3/28/2017			1.2 (O)					
3/29/2017					81 (O)			
7/12/2017								490 (O)
10/24/2017						671 (O)		
11/7/2018				<0.05 (O)				
10/15/2019			0.034 (O)					

FIGURE D.

Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/19/2022, 2:45 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	DGWC-10	0.13	n/a	9/15/2022	0.42	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	9/15/2022	1.7	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	9/15/2022	3.3	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	9/15/2022	0.69	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	9/13/2022	1.5	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	9/14/2022	0.87	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	9/14/2022	2.4	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	9/20/2022	0.42	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	9/15/2022	4.2	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	9/15/2022	6.7	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	9/16/2022	4.2	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	9/20/2022	4.6	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	9/19/2022	4.8	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	9/13/2022	1.1	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	9/13/2022	0.18	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	9/13/2022	0.61	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	9/14/2022	5	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	9/15/2022	0.83	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	9/19/2022	0.8	Yes	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	9/15/2022	64.4	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	9/15/2022	66.6	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-12	40.3	n/a	9/15/2022	41.5	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	9/14/2022	105	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	9/15/2022	70.1	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	9/15/2022	82.2	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	9/16/2022	66.2	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	9/20/2022	90	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	9/19/2022	376	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	9/13/2022	65.3	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	9/14/2022	117	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	9/19/2022	45.1	Yes	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-11	8.2	n/a	9/15/2022	12.1	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-13	8.2	n/a	9/15/2022	13.7	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-15	8.2	n/a	9/13/2022	21.9	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-17	8.2	n/a	9/14/2022	19	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-19	8.2	n/a	9/14/2022	18.7	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-20	8.2	n/a	9/15/2022	26.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-21	8.2	n/a	9/15/2022	17.6	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-22	8.2	n/a	9/16/2022	18	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-23	8.2	n/a	9/20/2022	11.6	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-4	8.2	n/a	9/19/2022	11.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-42	8.2	n/a	9/13/2022	18.7	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-48	8.2	n/a	9/13/2022	8.9	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-5	8.2	n/a	9/14/2022	11.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-8	8.2	n/a	9/15/2022	8.3	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-9	8.2	n/a	9/19/2022	13.2	Yes	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-10	0.42	n/a	9/15/2022	0.84	Yes	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-20	0.42	n/a	9/15/2022	0.69	Yes	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-47	0.42	n/a	9/13/2022	0.47	Yes	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-48	0.42	n/a	9/13/2022	0.43	Yes	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-9	0.42	n/a	9/19/2022	0.8	Yes	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-10	6.669	5.189	9/15/2022	4.87	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-17	6.669	5.189	9/14/2022	5.08	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-19	6.669	5.189	9/14/2022	4.81	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-20	6.669	5.189	9/15/2022	4.58	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-42	6.669	5.189	9/13/2022	5.04	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-47	6.669	5.189	9/13/2022	4.15	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-48	6.669	5.189	9/13/2022	4.25	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-5	6.669	5.189	9/14/2022	4.75	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-9	6.669	5.189	9/19/2022	3.98	Yes	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-10	49	n/a	9/15/2022	229	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-11	49	n/a	9/15/2022	287	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-12	49	n/a	9/15/2022	191	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-13	49	n/a	9/15/2022	133	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-15	49	n/a	9/13/2022	145	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-17	49	n/a	9/14/2022	268	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-19	49	n/a	9/14/2022	388	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-2	49	n/a	9/20/2022	98.4	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2

Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/19/2022, 2:45 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate as SO4 (mg/L)	DGWC-20	49	n/a	9/15/2022	462	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	49	n/a	9/15/2022	268	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	49	n/a	9/16/2022	265	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	49	n/a	9/20/2022	242	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	49	n/a	9/19/2022	925	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	49	n/a	9/13/2022	326	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	49	n/a	9/13/2022	150	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	49	n/a	9/13/2022	309	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	49	n/a	9/14/2022	505	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	49	n/a	9/15/2022	134	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	49	n/a	9/19/2022	274	Yes	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	285.8	n/a	9/15/2022	414	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	285.8	n/a	9/15/2022	377	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	285.8	n/a	9/13/2022	289	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	285.8	n/a	9/14/2022	434	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	285.8	n/a	9/14/2022	572	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	285.8	n/a	9/15/2022	618	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	285.8	n/a	9/15/2022	440	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	285.8	n/a	9/16/2022	462	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	285.8	n/a	9/20/2022	511	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	285.8	n/a	9/19/2022	1670	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	285.8	n/a	9/13/2022	540	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	285.8	n/a	9/13/2022	527	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	285.8	n/a	9/14/2022	850	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	285.8	n/a	9/19/2022	456	Yes	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/19/2022, 2:45 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	**DGWC-10**	**0.13**	**n/a**	**9/15/2022**	**0.42**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-11**	**0.13**	**n/a**	**9/15/2022**	**1.7**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-12**	**0.13**	**n/a**	**9/15/2022**	**3.3**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-13**	**0.13**	**n/a**	**9/15/2022**	**0.69**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	DGWC-14	0.13	n/a	9/13/2022	0.091	No	47	n/a	n/a	27.66	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Boron, total (mg/L)	**DGWC-15**	**0.13**	**n/a**	**9/13/2022**	**1.5**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-17**	**0.13**	**n/a**	**9/14/2022**	**0.87**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-19**	**0.13**	**n/a**	**9/14/2022**	**2.4**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-2**	**0.13**	**n/a**	**9/20/2022**	**0.42**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-20**	**0.13**	**n/a**	**9/15/2022**	**4.2**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-21**	**0.13**	**n/a**	**9/15/2022**	**6.7**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-22**	**0.13**	**n/a**	**9/16/2022**	**4.2**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-23**	**0.13**	**n/a**	**9/20/2022**	**4.6**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-4**	**0.13**	**n/a**	**9/19/2022**	**4.8**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-42**	**0.13**	**n/a**	**9/13/2022**	**1.1**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-47**	**0.13**	**n/a**	**9/13/2022**	**0.18**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-48**	**0.13**	**n/a**	**9/13/2022**	**0.61**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-5**	**0.13**	**n/a**	**9/14/2022**	**5**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-8**	**0.13**	**n/a**	**9/15/2022**	**0.83**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Boron, total (mg/L)	**DGWC-9**	**0.13**	**n/a**	**9/19/2022**	**0.8**	**Yes**	**47**	**n/a**	**n/a**	**27.66**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**DGWC-10**	**40.3**	**n/a**	**9/15/2022**	**64.4**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**DGWC-11**	**40.3**	**n/a**	**9/15/2022**	**66.6**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**DGWC-12**	**40.3**	**n/a**	**9/15/2022**	**41.5**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	DGWC-13	40.3	n/a	9/15/2022	36.7	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-14	40.3	n/a	9/13/2022	11.2	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-15	40.3	n/a	9/13/2022	34.4	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-17	40.3	n/a	9/14/2022	16.4	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**DGWC-19**	**40.3**	**n/a**	**9/14/2022**	**105**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	DGWC-2	40.3	n/a	9/20/2022	37.8	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**DGWC-20**	**40.3**	**n/a**	**9/15/2022**	**70.1**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**DGWC-21**	**40.3**	**n/a**	**9/15/2022**	**82.2**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**DGWC-22**	**40.3**	**n/a**	**9/16/2022**	**66.2**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**DGWC-23**	**40.3**	**n/a**	**9/20/2022**	**90**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**DGWC-4**	**40.3**	**n/a**	**9/19/2022**	**376**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	DGWC-42	40.3	n/a	9/13/2022	34.2	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-47	40.3	n/a	9/13/2022	24.8	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**DGWC-48**	**40.3**	**n/a**	**9/13/2022**	**65.3**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**DGWC-5**	**40.3**	**n/a**	**9/14/2022**	**117**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	DGWC-8	40.3	n/a	9/15/2022	29.3	No	47	n/a	n/a	4.255	n/a	n/a	0.0008139	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**DGWC-9**	**40.3**	**n/a**	**9/19/2022**	**45.1**	**Yes**	**47**	**n/a**	**n/a**	**4.255**	**n/a**	**n/a**	**0.0008139**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	DGWC-10	8.2	n/a	9/15/2022	8.2	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	**DGWC-11**	**8.2**	**n/a**	**9/15/2022**	**12.1**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	DGWC-12	8.2	n/a	9/15/2022	8.2	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	**DGWC-13**	**8.2**	**n/a**	**9/15/2022**	**13.7**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	DGWC-14	8.2	n/a	9/13/2022	3.5	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	**DGWC-15**	**8.2**	**n/a**	**9/13/2022**	**21.9**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**DGWC-17**	**8.2**	**n/a**	**9/14/2022**	**19**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**DGWC-19**	**8.2**	**n/a**	**9/14/2022**	**18.7**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	DGWC-2	8.2	n/a	9/20/2022	2	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	**DGWC-20**	**8.2**	**n/a**	**9/15/2022**	**26.2**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**DGWC-21**	**8.2**	**n/a**	**9/15/2022**	**17.6**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**DGWC-22**	**8.2**	**n/a**	**9/16/2022**	**18**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**DGWC-23**	**8.2**	**n/a**	**9/20/2022**	**11.6**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**DGWC-4**	**8.2**	**n/a**	**9/19/2022**	**11.2**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**DGWC-42**	**8.2**	**n/a**	**9/13/2022**	**18.7**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	DGWC-47	8.2	n/a	9/13/2022	3.3	No	49	n/a	n/a	0	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	**DGWC-48**	**8.2**	**n/a**	**9/13/2022**	**8.9**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**DGWC-5**	**8.2**	**n/a**	**9/14/2022**	**11.2**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**DGWC-8**	**8.2**	**n/a**	**9/15/2022**	**8.3**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**DGWC-9**	**8.2**	**n/a**	**9/19/2022**	**13.2**	**Yes**	**49**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Fluoride, total (mg/L)	**DGWC-10**	**0.42**	**n/a**	**9/15/2022**	**0.84**	**Yes**	**54**	**n/a**	**n/a**	**50**	**n/a**	**n/a**	**0.0006272**	**NP Inter (normality) 1 of 2**
Fluoride, total (mg/L)	DGWC-11	0.42	n/a	9/15/2022	0.064J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-12	0.42	n/a	9/15/2022	0.078J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-13	0.42	n/a	9/15/2022	0.095J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-14	0.42	n/a	9/13/2022	0.059J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-15	0.42	n/a	9/13/2022	0.065J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-17	0.42	n/a	9/14/2022	0.1	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-19	0.42	n/a	9/14/2022	0.18	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/19/2022, 2:45 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	DGWC-2	0.42	n/a	9/20/2022	0.076J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	**DGWC-20**	**0.42**	**n/a**	**9/15/2022**	**0.69**	**Yes**	**54**	**n/a**	**n/a**	**50**	**n/a**	**n/a**	**0.0006272**	**NP Inter (normality) 1 of 2**
Fluoride, total (mg/L)	DGWC-21	0.42	n/a	9/15/2022	0.087J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-22	0.42	n/a	9/16/2022	0.068J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-23	0.42	n/a	9/20/2022	0.11	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-4	0.42	n/a	9/19/2022	0.061J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-42	0.42	n/a	9/13/2022	0.1ND	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	**DGWC-47**	**0.42**	**n/a**	**9/13/2022**	**0.47**	**Yes**	**54**	**n/a**	**n/a**	**50**	**n/a**	**n/a**	**0.0006272**	**NP Inter (normality) 1 of 2**
Fluoride, total (mg/L)	**DGWC-48**	**0.42**	**n/a**	**9/13/2022**	**0.43**	**Yes**	**54**	**n/a**	**n/a**	**50**	**n/a**	**n/a**	**0.0006272**	**NP Inter (normality) 1 of 2**
Fluoride, total (mg/L)	DGWC-5	0.42	n/a	9/14/2022	0.27	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-8	0.42	n/a	9/15/2022	0.077J	No	54	n/a	n/a	50	n/a	n/a	0.0006272	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	**DGWC-9**	**0.42**	**n/a**	**9/19/2022**	**0.8**	**Yes**	**54**	**n/a**	**n/a**	**50**	**n/a**	**n/a**	**0.0006272**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-10**	**6.669**	**5.189**	**9/15/2022**	**4.87**	**Yes**	**56**	**1.772**	**0.05718**	**0**	**None**	**ln(x)**	**0.0001881**	**Param Inter 1 of 2**
pH, Field (SU)	DGWC-11	6.669	5.189	9/15/2022	5.52	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-12	6.669	5.189	9/15/2022	5.75	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-13	6.669	5.189	9/15/2022	5.56	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-14	6.669	5.189	9/13/2022	5.71	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-15	6.669	5.189	9/13/2022	5.82	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	**DGWC-17**	**6.669**	**5.189**	**9/14/2022**	**5.08**	**Yes**	**56**	**1.772**	**0.05718**	**0**	**None**	**ln(x)**	**0.0001881**	**Param Inter 1 of 2**
pH, Field (SU)	**DGWC-19**	**6.669**	**5.189**	**9/14/2022**	**4.81**	**Yes**	**56**	**1.772**	**0.05718**	**0**	**None**	**ln(x)**	**0.0001881**	**Param Inter 1 of 2**
pH, Field (SU)	DGWC-2	6.669	5.189	9/20/2022	5.98	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	**DGWC-20**	**6.669**	**5.189**	**9/15/2022**	**4.58**	**Yes**	**56**	**1.772**	**0.05718**	**0**	**None**	**ln(x)**	**0.0001881**	**Param Inter 1 of 2**
pH, Field (SU)	DGWC-21	6.669	5.189	9/15/2022	5.69	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-22	6.669	5.189	9/16/2022	5.62	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-23	6.669	5.189	9/20/2022	6	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-4	6.669	5.189	9/19/2022	5.76	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	**DGWC-42**	**6.669**	**5.189**	**9/13/2022**	**5.04**	**Yes**	**56**	**1.772**	**0.05718**	**0**	**None**	**ln(x)**	**0.0001881**	**Param Inter 1 of 2**
pH, Field (SU)	**DGWC-47**	**6.669**	**5.189**	**9/13/2022**	**4.15**	**Yes**	**56**	**1.772**	**0.05718**	**0**	**None**	**ln(x)**	**0.0001881**	**Param Inter 1 of 2**
pH, Field (SU)	**DGWC-48**	**6.669**	**5.189**	**9/13/2022**	**4.25**	**Yes**	**56**	**1.772**	**0.05718**	**0**	**None**	**ln(x)**	**0.0001881**	**Param Inter 1 of 2**
pH, Field (SU)	**DGWC-5**	**6.669**	**5.189**	**9/14/2022**	**4.75**	**Yes**	**56**	**1.772**	**0.05718**	**0**	**None**	**ln(x)**	**0.0001881**	**Param Inter 1 of 2**
pH, Field (SU)	DGWC-8	6.669	5.189	9/15/2022	5.2	No	56	1.772	0.05718	0	None	ln(x)	0.0001881	Param Inter 1 of 2
pH, Field (SU)	**DGWC-9**	**6.669**	**5.189**	**9/19/2022**	**3.98**	**Yes**	**56**	**1.772**	**0.05718**	**0**	**None**	**ln(x)**	**0.0001881**	**Param Inter 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-10**	**49**	**n/a**	**9/15/2022**	**229**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-11**	**49**	**n/a**	**9/15/2022**	**287**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-12**	**49**	**n/a**	**9/15/2022**	**191**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-13**	**49**	**n/a**	**9/15/2022**	**133**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	DGWC-14	49	n/a	9/13/2022	41.2	No	49	n/a	n/a	14.29	n/a	n/a	0.0007437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**DGWC-15**	**49**	**n/a**	**9/13/2022**	**145**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-17**	**49**	**n/a**	**9/14/2022**	**268**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-19**	**49**	**n/a**	**9/14/2022**	**388**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-2**	**49**	**n/a**	**9/20/2022**	**98.4**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-20**	**49**	**n/a**	**9/15/2022**	**462**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-21**	**49**	**n/a**	**9/15/2022**	**268**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-22**	**49**	**n/a**	**9/16/2022**	**265**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-23**	**49**	**n/a**	**9/20/2022**	**242**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-4**	**49**	**n/a**	**9/19/2022**	**925**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-42**	**49**	**n/a**	**9/13/2022**	**326**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-47**	**49**	**n/a**	**9/13/2022**	**150**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-48**	**49**	**n/a**	**9/13/2022**	**309**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-5**	**49**	**n/a**	**9/14/2022**	**505**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-8**	**49**	**n/a**	**9/15/2022**	**134**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**DGWC-9**	**49**	**n/a**	**9/19/2022**	**274**	**Yes**	**49**	**n/a**	**n/a**	**14.29**	**n/a**	**n/a**	**0.0007437**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	285.8	n/a	9/15/2022	280	No	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-11**	**285.8**	**n/a**	**9/15/2022**	**414**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-12**	**285.8**	**n/a**	**9/15/2022**	**377**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-13	285.8	n/a	9/15/2022	216	No	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-14	285.8	n/a	9/13/2022	80	No	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-15**	**285.8**	**n/a**	**9/13/2022**	**289**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-17**	**285.8**	**n/a**	**9/14/2022**	**434**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-19**	**285.8**	**n/a**	**9/14/2022**	**572**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-2	285.8	n/a	9/20/2022	230	No	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-20**	**285.8**	**n/a**	**9/15/2022**	**618**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-21**	**285.8**	**n/a**	**9/15/2022**	**440**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-22**	**285.8**	**n/a**	**9/16/2022**	**462**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-23**	**285.8**	**n/a**	**9/20/2022**	**511**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-4**	**285.8**	**n/a**	**9/19/2022**	**1670**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-42**	**285.8**	**n/a**	**9/13/2022**	**540**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-47	285.8	n/a	9/13/2022	277	No	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/19/2022, 2:45 AM

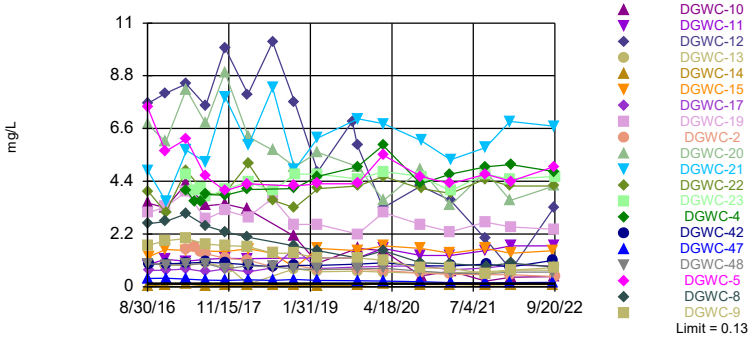
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	**DGWC-48**	**285.8**	**n/a**	**9/13/2022**	**527**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-5**	**285.8**	**n/a**	**9/14/2022**	**850**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	285.8	n/a	9/15/2022	234	No	48	4.543	0.9224	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-9**	**285.8**	**n/a**	**9/19/2022**	**456**	**Yes**	**48**	**4.543**	**0.9224**	**0**	**None**	**x^(1/3)**	**0.0003762**	**Param Inter 1 of 2**

Sanitas™ v.9.6.35 . UG

Exceeds Limit: DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-2, DGWC-20, DGWC-21...

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 47 background values. 27.66% NDs. Annual per-constituent alpha = 0.03204. Individual comparison alpha = 0.0008139 (1 of 2). Comparing 20 points to limit.

Constituent: Boron, total Analysis Run 10/19/2022 2:41 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

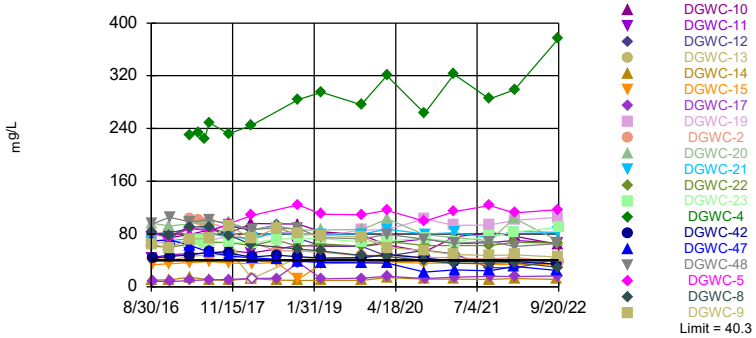
Sanitas™ v.9.6.35 . UG

Hollow symbols indicate censored values.

Exceeds Limit: DGWC-10, DGWC-11, DGWC-12, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-4, DGWC-48...

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 47 background values. 4.255% NDs. Annual per-constituent alpha = 0.03204. Individual comparison alpha = 0.0008139 (1 of 2). Comparing 20 points to limit.

Constituent: Calcium, total Analysis Run 10/19/2022 2:41 AM View: Constituents View

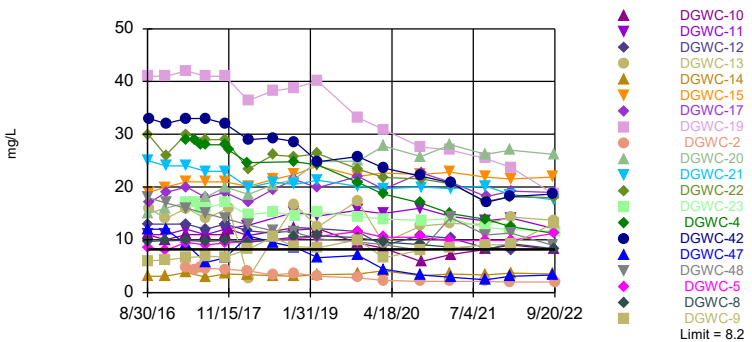
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Exceeds Limit: DGWC-11, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-4...

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 49 background values. Annual per-constituent alpha = 0.02932. Individual comparison alpha = 0.0007437 (1 of 2). Comparing 20 points to limit.

Constituent: Chloride, Total Analysis Run 10/19/2022 2:41 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

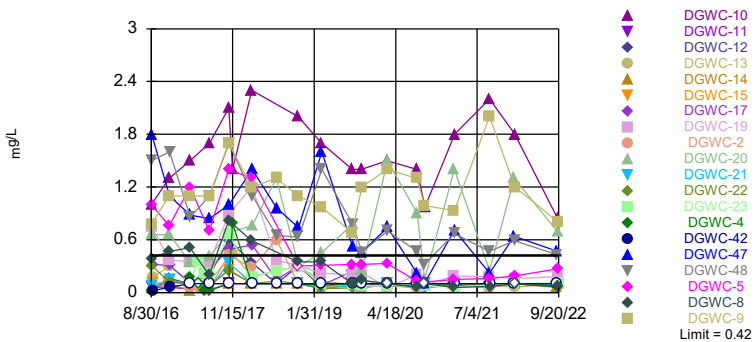
Sanitas™ v.9.6.35 . UG

Hollow symbols indicate censored values.

Exceeds Limit: DGWC-10, DGWC-20, DGWC-47, DGWC-48, DGWC-9

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 54 background values. 50% NDs. Annual per-constituent alpha = 0.02478. Individual comparison alpha = 0.0006272 (1 of 2). Comparing 20 points to limit.

Constituent: Fluoride, total Analysis Run 10/19/2022 2:41 AM View: Constituents View

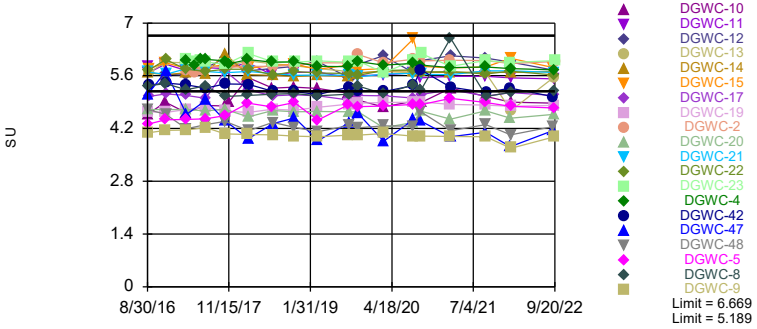
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Exceeds Limits: DGWC-10, DGWC-17, DGWC-19, DGWC-20, DGWC-42, DGWC-47, DGWC-48, DGWC-5, DGWC-9

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=1.772, Std. Dev.=0.05718, n=56. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9444, critical = 0.942. Kappa = 2.194 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0001881. Comparing 20 points to limit.

Constituent: pH, Field Analysis Run 10/19/2022 2:41 AM View: Constituents View

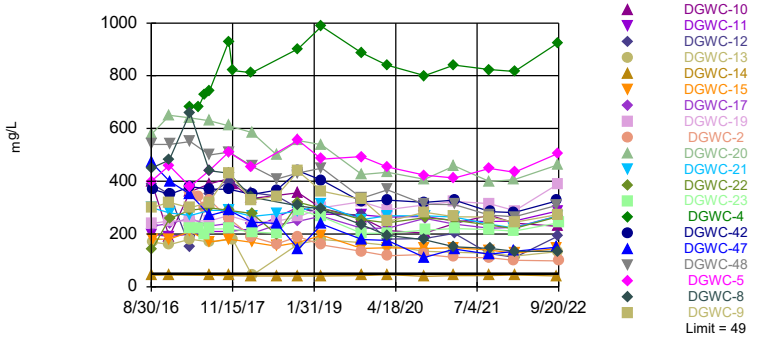
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Exceeds Limit: DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-2, DGWC-20, DGWC-21...

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 49 background values. 14.29% NDs. Annual per-constituent alpha = 0.02932. Individual comparison alpha = 0.0007437 (1 of 2). Comparing 20 points to limit.

Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:41 AM View: Constituents View

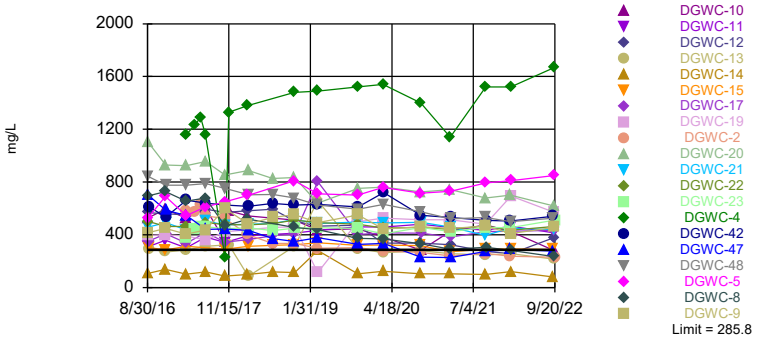
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Exceeds Limit: DGWC-11, DGWC-12, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-4...

Prediction Limit

Interwell Parametric



Background Data Summary (based on cube root transformation): Mean=4.543, Std. Dev.=0.9224, n=48. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9399, critical = 0.929. Kappa = 2.216 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003762. Comparing 20 points to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:41 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-11	DGWC-5	DGWC-10	DGWC-14	DGWC-12	DGWC-48	DGWC-47
8/30/2016	1.72	2.63							
8/31/2016			0.914	7.5	3.5	0.0419 (J)			
9/1/2016							7.64	0.955	0.345
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	1.92	2.72	1.15	5.64	3.3	0.0804			
12/7/2016							8.07		
12/8/2016								0.919	0.352
3/28/2017	2.01			6.16					
3/29/2017		3.04	1.07		4.3	0.103	8.46		
3/30/2017								0.925	
3/31/2017									0.312
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	1.78	2.55		4.61					
7/12/2017			1.14		3.38	0.044	7.55		
7/13/2017								0.972	0.28
8/8/2017									
10/24/2017	1.72	2.29	1.18		3.45				
10/25/2017				4		0.0565	9.97		
10/26/2017								0.746	0.269
11/15/2017									
2/27/2018	1.68	2.07	1.17	4.29	3.23	0.0539	8.03		
2/28/2018									
3/1/2018									0.296
3/2/2018								0.878	
3/8/2018									
7/11/2018	1.4					0.057	10.2		
7/12/2018								0.82	0.26
11/6/2018	1.4	1.7	1.2	4.2	2.1				
11/7/2018						0.055	7.7	0.74	0.3
11/8/2018									
3/12/2019	1.2	1.5	1.2	4.3	0.98		4.8		
3/13/2019						0.047			
3/14/2019								0.72	0.26
9/17/2019							6.9		
10/15/2019			1.2		1.6		5.9		
10/16/2019		1.2		4.3		0.052			
10/17/2019	1.2								0.25
10/18/2019								0.74	
3/2/2020			1.6	5.5			3.3		
3/3/2020	1.1	1.5			1.5	0.15			
3/4/2020								0.77	0.24
3/9/2020									
9/22/2020	0.78		1.3	4.6		0.086 (J)	4.2		
9/23/2020		1						0.65	0.21
9/24/2020					0.45				
3/1/2021									

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-11	DGWC-5	DGWC-10	DGWC-14	DGWC-12	DGWC-48	DGWC-47
3/2/2021	0.77	0.96	1.3	4.3		0.089			
3/3/2021							3.6	0.57	0.17
3/4/2021					0.65				
3/12/2021									
9/8/2021									
9/9/2021			1.5			0.08	2		
9/10/2021	0.54			4.7	0.24			0.55	0.16
9/13/2021		0.86							
1/18/2022									
1/20/2022									
1/21/2022									0.17
1/24/2022				4.4				0.61	
1/25/2022		0.98	1.7			0.097	0.7		
1/26/2022	0.69				0.4				
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022						0.091		0.61	0.18
9/14/2022				5					
9/15/2022		0.83	1.7		0.42		3.3		
9/16/2022									
9/19/2022	0.8								
9/20/2022									

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWA-53 (bg)
8/30/2016									
8/31/2016									
9/1/2016	3.08								
9/2/2016		6.77	4.81	3.99					
9/6/2016					1	1.25			
9/7/2016							0.683	0.924	
12/6/2016									
12/7/2016	3.34	6.04			0.9	1.56			
12/8/2016			3.57	3.1			0.688	0.957	
3/28/2017									0.0612
3/29/2017	3.96	8.23		4.85					
3/30/2017			5.68		0.898	1.5	0.743		
3/31/2017								0.989	
5/11/2017									0.0805
5/12/2017									
5/15/2017									
6/15/2017									0.0725
6/16/2017									
7/11/2017									
7/12/2017	2.82	6.81	5.2		0.996	1.49	0.62		0.0735
7/13/2017				3.85				1.03	
8/8/2017									
10/24/2017									0.077
10/25/2017	3.19	8.94	7.92	3.9		1.47	0.739	0.982	
10/26/2017									
11/15/2017					0.795				
2/27/2018									
2/28/2018	2.91	6.26	5.89	5.14	0.106	1.58	0.627	0.918	
3/1/2018									
3/2/2018									
3/8/2018									0.13 (J)
7/11/2018	3.7	5.7	8.3			1.4	0.79	0.83	
7/12/2018				3.6					0.076
11/6/2018									
11/7/2018	2.6	5	4.9	3.3	0.76	0.8	1.6	0.89	0.073
11/8/2018									
3/12/2019									
3/13/2019	2.6	5.6	6.2		0.62		0.76		0.08
3/14/2019				4.1		1.6		0.89	
9/17/2019									
10/15/2019									
10/16/2019	2.2				0.65				0.059
10/17/2019		5	7			1.5		0.94	
10/18/2019				4.2			0.82		
3/2/2020									
3/3/2020	3.1		6.8	4.6	0.61	1.7			
3/4/2020		3.6					0.85	1	
3/9/2020									0.08 (J)
9/22/2020	2.6	4.9						0.88	0.056 (J)
9/23/2020					0.57	1.6			
9/24/2020			6.1	4.1			0.88		
3/1/2021									

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWA-53 (bg)
3/2/2021	2.3	3.4			0.58	1.4			
3/3/2021			5.3	3.9			0.71	0.87	
3/4/2021									
3/12/2021									0.064
9/8/2021									
9/9/2021	2.7		5.8		0.62	1.6			0.065
9/10/2021		4.8		4.5					
9/13/2021							0.78	0.95	
1/18/2022									
1/20/2022			6.9	4.2				0.83	
1/21/2022		3.6							
1/24/2022						1.4	0.9		
1/25/2022	2.5				0.69				
1/26/2022									
1/28/2022									0.062
9/7/2022									
9/8/2022									0.054
9/13/2022						1.5		1.1	
9/14/2022	2.4						0.87		
9/15/2022		4.2	6.7		0.69				
9/16/2022				4.2					
9/19/2022									
9/20/2022									

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-4	DGWC-2	DGWC-23
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	0.0097 (J)	0.0067 (J)	4.01		
3/29/2017					
3/30/2017				1.56	4.68
3/31/2017					
5/11/2017				1.65	
5/12/2017	0.0082 (J)		3.58		4.03
5/15/2017		0.0073 (J)			
6/15/2017		<0.04	3.58	1.44	4.11
6/16/2017	0.0085 (J)				
7/11/2017	0.0077 (J)	<0.04	3.85	1.39	
7/12/2017					3.74
7/13/2017					
8/8/2017		<0.04			
10/24/2017	0.0083 (J)	0.0082 (J)	3.82	1.18	
10/25/2017					
10/26/2017					4.07
11/15/2017					
2/27/2018	0.0069 (J)	0.0062 (J)	4.06	1.12	
2/28/2018					
3/1/2018					4.37
3/2/2018					
3/8/2018					
7/11/2018				0.82	
7/12/2018					4
11/6/2018	<0.04 (J)	<0.04 (J)	4.1	0.9	
11/7/2018					
11/8/2018					4.7
3/12/2019	0.0068 (J)	0.0073 (J)	4.6	0.72	
3/13/2019					
3/14/2019					4.7
9/17/2019					
10/15/2019	0.0054 (J)	<0.04	5		
10/16/2019					
10/17/2019				0.73	
10/18/2019					4.5
3/2/2020	0.01 (J)	0.0055 (J)	5.9		
3/3/2020				0.68	
3/4/2020					4.8
3/9/2020					
9/22/2020	<0.04	<0.04	4.3		
9/23/2020				0.57	
9/24/2020					4.6
3/1/2021	0.0054 (J)	<0.04	4.7		

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-4	DGWC-2	DGWC-23
3/2/2021				0.52	
3/3/2021					4
3/4/2021					
3/12/2021					
9/8/2021	<0.04				
9/9/2021		<0.04		0.51	4.7
9/10/2021			5		
9/13/2021					
1/18/2022	0.015 (J)	0.024 (J)			
1/20/2022				0.5	4.5
1/21/2022					
1/24/2022			5.1		
1/25/2022					
1/26/2022					
1/28/2022					
9/7/2022	<0.04	<0.04			
9/8/2022					
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022			4.8		
9/20/2022				0.42	4.6

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-10	DGWC-5	DGWC-11	DGWC-14	DGWC-19	DGWC-48	DGWC-12
8/30/2016	82.7	64.9							
8/31/2016			81.7	82.6	44.2	9.95			
9/1/2016							65.6	95.1	80.6
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	76.8	59.3	74.2	73.9	48.3	10.4			
12/7/2016							68.3		82.1
12/8/2016								105	
3/28/2017		71.6		89.1					
3/29/2017	90.5		79.5		50.5	14.4	68		88.3
3/30/2017								98.6	
3/31/2017									
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	91.1	73.7		84.6					
7/12/2017			86.3		50.8	10.5	70		87
7/13/2017								102	
8/8/2017									
10/24/2017	78.1	92.5	81.5		55				
10/25/2017				95.6		9.67	77		92.1
10/26/2017								94	
11/15/2017									
2/27/2018	64.2	73.1	96.2	108	51.4	<25			85.6
2/28/2018							72		
3/1/2018									
3/2/2018								86.6	
3/8/2018									
7/11/2018		88.5				9.9	82.7		93.6
7/12/2018								89.1	
11/6/2018	57	81.1	94.8	124	62.6				
11/7/2018						9.7	81.7	88	73.3
11/8/2018									
3/12/2019	54.3	78.1	83.5	110	61.4				62.1
3/13/2019						9.7	76.9		
3/14/2019								74.6	
10/15/2019			79.1		61.2				61.4
10/16/2019	47.3			109		9.4	85.7		
10/17/2019		75.6							
10/18/2019								72.7	
3/2/2020				116	65.8				46.5
3/3/2020	46	59.5	63.6			14	86.8		
3/4/2020								79.7	
3/9/2020									
9/22/2020		54.7		99.2	72.7	11.6	103		55.4
9/23/2020	39.3							72.2	
9/24/2020			53.1						
3/1/2021									
3/2/2021	35.6	48.8		114	65.3	11.4	93.2		

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-10	DGWC-5	DGWC-11	DGWC-14	DGWC-19	DGWC-48	DGWC-12
3/3/2021								66	50.1
3/4/2021			75.8						
3/12/2021									
9/8/2021									
9/9/2021					66.8	11.1	93.6		29.2
9/10/2021		47.7	82.4	123				68.7	
9/13/2021	36								
1/18/2022									
1/20/2022									
1/21/2022									
1/24/2022				112				61.2	
1/25/2022	36.8				70.2	12.4	101		28.5
1/26/2022		48.4	76.8						
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022						11.2		65.3	
9/14/2022				117			105		
9/15/2022	29.3		64.4		66.6				41.5
9/16/2022									
9/19/2022		45.1							
9/20/2022									

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-20	DGWC-21	DGWC-22	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	69.3								
9/2/2016		96.3	70.2	61.6					
9/6/2016					33.6	44			
9/7/2016							43.6	8.61	
12/6/2016									
12/7/2016		91.9			34.7	39.8			
12/8/2016	71.1		70.1	60.1			45.8	7.92	
3/28/2017									229
3/29/2017		95.7		64.7					
3/30/2017			72.5		36.9	46.3		9.56	
3/31/2017	62.6						48.3		
5/11/2017									
5/12/2017									233
5/15/2017									
6/15/2017									224
6/16/2017									
7/11/2017									249
7/12/2017		100	80.4		38.4	47.8		10.4	
7/13/2017	52.5			67.2			52.3		
8/8/2017									
10/24/2017									232
10/25/2017		97.3	75.6	66.8	36.2		50.9	10.9	
10/26/2017	46.7								
11/15/2017						49.3			
2/27/2018									245
2/28/2018		86.3	73.2	62.3	35	<25	45.1	<25	
3/1/2018	44.2								
3/2/2018									
3/8/2018									
7/11/2018		92.4	82.3		37.5		47.8	13 (J)	
7/12/2018	41.6			71					
11/6/2018									284
11/7/2018	38.6	85.9	78.5	60.9	11.4	44.8	45.5	37	
11/8/2018									
3/12/2019									295
3/13/2019		86.4	79.9			42.1		11.9 (J)	
3/14/2019	36.6			64.8	34.7		43.5		
10/15/2019									276
10/16/2019						43.8			
10/17/2019	36.2	86.9	79.8		37		44.1		
10/18/2019				61.7				12.9	
3/2/2020									320
3/3/2020			87.4	68.7	37.8	49.3			
3/4/2020	36	103					48.8	15.8	
3/9/2020									
9/22/2020		79.2					43.8		263
9/23/2020	22.3				35.6	39			
9/24/2020			80	62.6				12.7	
3/1/2021									322
3/2/2021		74.7			36	40.5			

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-20	DGWC-21	DGWC-22	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWC-4
3/3/2021	25.5		82.1	62.3			38.8	14.3	
3/4/2021									
3/12/2021									
9/8/2021									
9/9/2021			75.3		34.4	38.2			
9/10/2021	24.4	69.8		62.3					285
9/13/2021							38.9	15.8	
1/18/2022									
1/20/2022			83.7	67.3			38.1		
1/21/2022	31	104							
1/24/2022					33.2			15.6	299
1/25/2022						43.2			
1/26/2022									
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022	24.8				34.4		34.2		
9/14/2022								16.4	
9/15/2022		70.1	82.2			36.7			
9/16/2022				66.2					
9/19/2022									376
9/20/2022									

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-23	DGWC-2
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	30.8	5.14	8.31		
3/29/2017					
3/30/2017				68.1	103
3/31/2017					
5/11/2017	35.8				102
5/12/2017			8.04	71.1	
5/15/2017		6.5			
6/15/2017	36	5.38		65.9	96.2
6/16/2017			7.66		
7/11/2017		5.96	7.71		98.4
7/12/2017	40.3			70	
7/13/2017					
8/8/2017		5.2			
10/24/2017	30.3	4.93	6.86		86
10/25/2017					
10/26/2017				67.2	
11/15/2017					
2/27/2018		<25	<25		66.7
2/28/2018					
3/1/2018				66.5	
3/2/2018					
3/8/2018	39.8				
7/11/2018					55
7/12/2018	34.7			72	
11/6/2018		5.5	5.7		54.5
11/7/2018	28.6				
11/8/2018				73.5	
3/12/2019		5.1	5.5		52.2
3/13/2019	26.7				
3/14/2019				73.2	
10/15/2019		5.1	5.1		
10/16/2019	17.7				
10/17/2019					47.2
10/18/2019				67.7	
3/2/2020		5.3	5.8		
3/3/2020					48.4
3/4/2020				69.8	
3/9/2020	23.7				
9/22/2020	15.5	5	5.4		
9/23/2020					44.4
9/24/2020				73.7	
3/1/2021		4.1	5.9		
3/2/2021					44

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-23	DGWC-2
3/3/2021				68.1	
3/4/2021					
3/12/2021	18.4				
9/8/2021			6.1		
9/9/2021	18.3	5.3		76.4	42
9/10/2021					
9/13/2021					
1/18/2022		6.1	6.6		
1/20/2022				82.7	44.6
1/21/2022					
1/24/2022					
1/25/2022					
1/26/2022					
1/28/2022	19.5				
9/7/2022		5.9	6.4		
9/8/2022	17.2				
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022					
9/20/2022				90	37.8

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-5	DGWC-10	DGWC-11	DGWC-14	DGWC-12	DGWC-19	DGWC-48
8/30/2016	9.7	6							
8/31/2016			8.6	11	11	3.1			
9/1/2016							13	41	18
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	9.8	6.2	8	10	11	3.1			
12/7/2016							20 (O)	41	
12/8/2016									17
3/28/2017		6.6	9.5						
3/29/2017	9.9			11	12	3.8	13	42	
3/30/2017									16
3/31/2017									
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	9.7	6.9	9						
7/12/2017				11	11	2.9	12	41	
7/13/2017									15
8/8/2017									
10/24/2017	9.9	6.7		11	12				
10/25/2017			9.4			3.5	13	41	
10/26/2017									14
11/15/2017				12					
2/27/2018	9.5	8.2	9.7	10.8	12.7	3.4	11.7		
2/28/2018								36.4	
3/1/2018									
3/2/2018									12.8
3/8/2018									
7/11/2018		10.5				3.2	11.3	38.2	
7/12/2018									11.7
11/6/2018	10.5	8.7	10.2	12.3	15.2				
11/7/2018						3.1	11.8	38.8	11.4
11/8/2018									
3/12/2019	10.7	8.5	10.6	12.1	14.5		12.1		
3/13/2019						3.4		40.1	
3/14/2019									10.2
10/15/2019				9.4	15.6		11.6		
10/16/2019	10.4		11.6			3.5		33.2	
10/17/2019		10							
10/18/2019									9.6
3/2/2020			10.5		15		8.9		
3/3/2020	9.6	6.6		8.4		4.1		30.9	
3/4/2020									9.1
3/9/2020									
9/22/2020		8	10.5		16	3.2	10.8	27.6	
9/23/2020	9.1								8
9/24/2020				5.9					
3/1/2021									
3/2/2021	8.6	8.4	9.8		14.4	3.5		27	

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-5	DGWC-10	DGWC-11	DGWC-14	DGWC-12	DGWC-19	DGWC-48
3/3/2021							10.3		14.2
3/4/2021				7.2					
3/12/2021									
9/8/2021									
9/9/2021					13.6	3.3	8.5	25.4	
9/10/2021		9	9.9	8.2					10.9
9/13/2021	8.2								
1/18/2022									
1/20/2022									
1/21/2022									
1/24/2022			9.9						11.3
1/25/2022	9.3				14.1	3.7	8.1	23.7	
1/26/2022		9.1		9					
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022						3.5			8.9
9/14/2022			11.2					18.7	
9/15/2022	8.3			8.2	12.1		8.2		
9/16/2022									
9/19/2022		13.2							
9/20/2022									

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-20	DGWC-21	DGWC-22	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	12								
9/2/2016		15	25	30					
9/6/2016					16	19			
9/7/2016							17	33	
12/6/2016									
12/7/2016		16			14	20			
12/8/2016	12		24	26			19	32	
3/28/2017									29
3/29/2017		17		30					
3/30/2017			24		16	21	20		
3/31/2017	9.1							33	
5/11/2017									
5/12/2017									29
5/15/2017									
6/15/2017									28
6/16/2017									
7/11/2017									28
7/12/2017		18	23		14	21	18		
7/13/2017	5.7			29				33	
8/8/2017									
10/24/2017									28
10/25/2017		20	23	29		21	19	32	
10/26/2017	6.6								
11/15/2017					16				27
2/27/2018									24.6
2/28/2018		18.6	19.9	23.4	2.7	20.1	17	29	
3/1/2018	10.7								
3/2/2018									
3/8/2018									
7/11/2018		20.4	20.9			21.4	19.5	29.3	
7/12/2018	9.5			26.1					
11/6/2018									24.8
11/7/2018	8.6	21.5	20.5	25.8	16.7	22.4	21.4	28.6	
11/8/2018									
3/12/2019									24.2
3/13/2019		24.8	21.3		12.4		19.9		
3/14/2019	6.6			26.3		24		24.8	
10/15/2019									20.9
10/16/2019					17.4				
10/17/2019	7	24.9	20.1			22		25.8	
10/18/2019				23.4			22		
3/2/2020									18.7
3/3/2020			19.7	21.8	9.4	22.7			
3/4/2020	4.4	27.8					19.6	23.6	
3/9/2020									
9/22/2020		25.8						22.1	17
9/23/2020	3.3				12.6	22.4			
9/24/2020			20	21.5			22.7		
3/1/2021									15
3/2/2021		28			13.1	22.8			

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-20	DGWC-21	DGWC-22	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWC-4
3/3/2021	2.9		19.7	20.6			20.9	20.8	
3/4/2021									
3/12/2021									
9/8/2021									
9/9/2021			20.2		12.9	21.9			
9/10/2021	2.4	26.2		17.3					13.9
9/13/2021							18.2	17.1	
1/18/2022									
1/20/2022			18.6	18.1				18.2	
1/21/2022	3.1	27							
1/24/2022						21.5	19.2		12.5
1/25/2022					14.3				
1/26/2022									
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022	3.3					21.9		18.7	
9/14/2022							19		
9/15/2022		26.2	17.6		13.7				
9/16/2022				18					
9/19/2022									11.2
9/20/2022									

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-2	DGWC-23
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	3.7	3.8	3.6		
3/29/2017					
3/30/2017				4.8	17
3/31/2017					
5/11/2017	2.3			4.4	
5/12/2017			3.8		17
5/15/2017		2.2			
6/15/2017	2.6	2		4.8	16
6/16/2017			3.4		
7/11/2017		2.1	3.1	4.6	
7/12/2017	2.3				16
7/13/2017					
8/8/2017		2.2			
10/24/2017	2.7	2.4	3.2	4.4	
10/25/2017					
10/26/2017					17
11/15/2017	2.2		3.1		
2/27/2018		2.5	3.2	4.1	
2/28/2018					
3/1/2018					14.8
3/2/2018					
3/8/2018	2.4				
7/11/2018				3.3	
7/12/2018	2.2				15.2
11/6/2018		2.3	2.6	3.7	
11/7/2018	2.3				
11/8/2018					14.6
3/12/2019		2.5	3.3	3.1	
3/13/2019	3.6				
3/14/2019					15.2
10/15/2019		2.2	3.3		
10/16/2019	2				
10/17/2019				2.8	
10/18/2019					14.4
3/2/2020		1.9	3		
3/3/2020				2.3	
3/4/2020					13.9
3/9/2020	1.8				
9/22/2020	1.6	1.9	5.2		
9/23/2020				2.1	
9/24/2020					13.7
3/1/2021		1.9	3.9		
3/2/2021				2.1	

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-2	DGWC-23
3/3/2021					14
3/4/2021					
3/12/2021	2				
9/8/2021			5.9		
9/9/2021	1.8	1.9		2.1	12.3
9/10/2021					
9/13/2021					
1/18/2022		1.9	5.9		
1/20/2022				2	12
1/21/2022					
1/24/2022					
1/25/2022					
1/26/2022					
1/28/2022	1.8				
9/7/2022		2.1	8.2		
9/8/2022	1.6				
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022					
9/20/2022				2	11.6

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-14	DGWC-10	DGWC-11	DGWC-5	DGWC-48	DGWC-19	DGWC-47
8/30/2016	0.78	0.39							
8/31/2016			0.06 (J)	1	0.06 (J)	1			
9/1/2016							1.5	0.75	1.8
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	1.1	0.47	0.1 (J)	1.3	0.06 (J)	0.76			
12/7/2016								0.37	
12/8/2016							1.6		1.1
3/28/2017	1.1					1.2			
3/29/2017		0.51	0.02 (J)	1.5	0.04 (J)			0.35	
3/30/2017							0.86		
3/31/2017									0.88
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	1.1	0.2 (J)				0.7			
7/12/2017			<0.1	1.7	0.03 (J)			0.34	
7/13/2017							1.1		0.84
8/8/2017									
10/24/2017	1.7	0.82		2.1	<0.1				
10/25/2017			<0.1			1.4		0.9	
10/26/2017							1.7		1
11/15/2017				1.4					
2/27/2018	1.2	0.59	<0.1	2.3	<0.1	1.3			
2/28/2018								1.2	
3/1/2018									1.4
3/2/2018							1.1		
3/8/2018									
7/11/2018	1.3		<0.1					0.37	
7/12/2018							0.65		0.96
11/6/2018	1.1	0.35		2	<0.1	<0.3 (J)			
11/7/2018			<0.1				0.63	<0.3 (J)	0.74
11/8/2018									
3/12/2019	0.97	0.35		1.7	0.052 (J)	0.31			
3/13/2019			0.042 (J)					0.22 (J)	
3/14/2019							1.4		1.6
8/27/2019	0.68		<0.1	1.4	<0.1	0.32			
8/28/2019		0.098 (J)						0.2	
8/29/2019							0.78		0.52
10/15/2019				1.4	<0.1				
10/16/2019		0.14 (J)	0.052 (J)			0.32		0.23 (J)	
10/17/2019	1.2								0.46
10/18/2019							0.46		
3/2/2020					0.064 (J)	0.33			
3/3/2020	1.4	<0.1	<0.1	1.5				0.056 (J)	
3/4/2020							0.7		0.74
3/9/2020									
8/11/2020	1.3		<0.1	1.4	<0.1			0.2	
8/12/2020		0.056 (J)				0.13			0.22

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-14	DGWC-10	DGWC-11	DGWC-5	DGWC-48	DGWC-19	DGWC-47
8/13/2020							0.47		
8/14/2020									
9/22/2020	0.99		<0.1		<0.1	0.12		0.084 (J)	
9/23/2020		<0.1					0.32		0.11
9/24/2020				0.97					
3/1/2021									
3/2/2021	0.93	0.059 (J)	<0.1		<0.1	0.15		0.19	
3/3/2021							0.67		0.71
3/4/2021				1.8					
3/12/2021									
9/8/2021									
9/9/2021			<0.1		<0.1			0.18	
9/10/2021	2			2.2		0.16	0.47		0.22
9/13/2021		0.069 (J)							
1/18/2022									
1/20/2022									
1/21/2022									0.64
1/24/2022						0.19	0.59		
1/25/2022		<0.1	<0.1		<0.1			0.16	
1/26/2022	1.2			1.8					
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022			0.059 (J)				0.43		0.47
9/14/2022						0.27		0.18	
9/15/2022		0.077 (J)		0.84	0.064 (J)				
9/16/2022									
9/19/2022	0.8								
9/20/2022									

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-20	DGWC-21	DGWC-22	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWA-71 (bg)
8/30/2016									
8/31/2016									
9/1/2016	0.02 (J)								
9/2/2016		0.66	0.07 (J)	0.3					
9/6/2016					0.11 (J)	0.17 (J)			
9/7/2016							0.02 (J)	0.32	
12/6/2016									
12/7/2016	0.16 (J)	0.66			0.11 (J)	0.3			
12/8/2016			0.14 (J)	0.12 (J)			0.06 (J)	0.31	
3/28/2017									0.06 (J)
3/29/2017	0.1 (J)	0.34		0.11 (J)					
3/30/2017			<0.1		<0.1	0.12 (J)		0.1 (J)	
3/31/2017							<0.1		
5/11/2017									
5/12/2017									<0.1
5/15/2017									
6/15/2017									
6/16/2017									0.008 (J)
7/11/2017									0.007 (J)
7/12/2017	0.2 (J)	0.41	0.04 (J)		0.07 (J)	0.13 (J)		0.27 (J)	
7/13/2017				0.09 (J)			<0.1		
8/8/2017									
10/24/2017									<0.1
10/25/2017	0.6	0.68	0.34	0.25 (J)	0.26 (J)		<0.1	0.49	
10/26/2017									
11/15/2017						0.44			<0.1
2/27/2018	0.34								<0.1
2/28/2018		0.76	<0.1	<0.1	<0.1	0.18	<0.1	0.54	
3/1/2018									
3/2/2018									
3/8/2018									
7/11/2018	<0.1	1.3	<0.1		<0.1		<0.1	0.15 (J)	
7/12/2018				0.13 (J)					
11/6/2018									<0.1
11/7/2018	<0.3 (J)	<0.3 (J)	<0.1	<0.1	<0.1	<0.3 (J)	<0.1	<0.3 (J)	
11/8/2018									
3/12/2019	0.065 (J)								<0.1
3/13/2019		0.45	0.043 (J)			0.13 (J)		0.084 (J)	
3/14/2019				0.042 (J)	0.057 (J)		<0.1		
8/27/2019	<0.1							0.24 (J)	<0.1
8/28/2019					<0.1	0.091 (J)	<0.1		
8/29/2019		0.78	0.079 (J)	0.054 (J)					
10/15/2019	<0.1								<0.1
10/16/2019						0.14 (J)			
10/17/2019		0.26 (J)	<0.1		0.079 (J)		<0.1		
10/18/2019				<0.1				0.086 (J)	
3/2/2020	0.071 (J)								<0.1
3/3/2020			<0.1	<0.1	<0.1	0.078 (J)			
3/4/2020		1.5					<0.1	<0.1	
3/9/2020									
8/11/2020	<0.1								<0.1
8/12/2020						0.051 (J)			

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-20	DGWC-21	DGWC-22	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWA-71 (bg)
8/13/2020		0.9			<0.1		<0.1		
8/14/2020			<0.1	<0.1				0.069 (J)	
9/22/2020	<0.1	0.15					<0.1		<0.1
9/23/2020					<0.1	0.058 (J)			
9/24/2020			<0.1	<0.1				0.056 (J)	
3/1/2021									<0.1
3/2/2021		1.4			<0.1	0.084 (J)			
3/3/2021	0.085 (J)		<0.1	<0.1			<0.1	0.085 (J)	
3/4/2021									
3/12/2021									
9/8/2021									<0.1
9/9/2021	0.099 (J)		<0.1		<0.1	0.083 (J)			
9/10/2021		0.25		<0.1					
9/13/2021							<0.1	0.063 (J)	
1/18/2022									<0.1
1/20/2022			<0.1	<0.1			<0.1		
1/21/2022		1.3							
1/24/2022					<0.1			<0.1	
1/25/2022	0.093 (J)					0.063 (J)			
1/26/2022									
1/28/2022									
9/7/2022									0.056 (J)
9/8/2022									
9/13/2022					0.065 (J)		<0.1		
9/14/2022								0.1	
9/15/2022	0.078 (J)	0.69	0.087 (J)			0.095 (J)			
9/16/2022				0.068 (J)					
9/19/2022									
9/20/2022									

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWC-4	DGWC-23	DGWC-2	DGWA-70A (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	0.12 (J)	0.17 (J)			1.2 (O)
3/29/2017					
3/30/2017			0.12 (J)	0.06 (J)	
3/31/2017					
5/11/2017	0.07 (J)			0.06 (J)	
5/12/2017		<0.1	0.36		
5/15/2017					0.005 (J)
6/15/2017	0.19 (J)	0.02 (J)	0.21 (J)	0.07 (J)	0.02 (J)
6/16/2017					
7/11/2017		0.02 (J)		0.04 (J)	0.06 (J)
7/12/2017	0.1 (J)		0.22 (J)		
7/13/2017					
8/8/2017					0.04 (J)
10/24/2017	0.06 (J)	<0.1		0.43	<0.1
10/25/2017					
10/26/2017			0.66		
11/15/2017	0.05 (J)	0.79			
2/27/2018		<0.1		0.28	<0.1
2/28/2018					
3/1/2018			0.18		
3/2/2018					
3/8/2018	<0.1				
7/11/2018				0.6	
7/12/2018	0.071 (J)		0.25 (J)		
11/6/2018		<0.1		<0.1	<0.1
11/7/2018	<0.1				
11/8/2018			<0.3 (J)		
3/12/2019		0.082 (J)		0.052 (J)	0.039 (J)
3/13/2019	0.13 (J)				
3/14/2019			0.092 (J)		
8/27/2019		<0.1		<0.1	<0.1
8/28/2019	0.42				
8/29/2019			0.095 (J)		
10/15/2019		<0.1			<0.1
10/16/2019	0.11 (J)				
10/17/2019				0.042 (J)	
10/18/2019			0.079 (J)		
3/2/2020		<0.1			<0.1
3/3/2020				<0.1	
3/4/2020			0.075 (J)		
3/9/2020	0.1 (J)				
8/11/2020				<0.1	<0.1
8/12/2020		<0.1			

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWC-4	DGWC-23	DGWC-2	DGWA-70A (bg)
8/13/2020	0.062 (J)		0.1		
8/14/2020					
9/22/2020	0.099 (J)	<0.1			<0.1
9/23/2020				<0.1	
9/24/2020			0.075 (J)		
3/1/2021		<0.1			<0.1
3/2/2021				<0.1	
3/3/2021			0.063 (J)		
3/4/2021					
3/12/2021	0.076 (J)				
9/8/2021					
9/9/2021	0.099 (J)		0.084 (J)	0.053 (J)	<0.1
9/10/2021		<0.1			
9/13/2021					
1/18/2022					<0.1
1/20/2022			<0.1	<0.1	
1/21/2022					
1/24/2022		<0.1			
1/25/2022					
1/26/2022					
1/28/2022	0.08 (J)				
9/7/2022					0.061 (J)
9/8/2022	0.11				
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022		0.061 (J)			
9/20/2022			0.11	0.076 (J)	

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-14	DGWC-11	DGWC-10	DGWC-5	DGWC-19	DGWC-47	DGWC-48
8/30/2016	4.08	5.33							
8/31/2016			5.68	5.83	4.58	4.31			
9/1/2016				5.67			4.64	5.11	4.7
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	4.15	5.39	5.63	5.91	4.9	4.43			
12/7/2016							4.63		
12/8/2016								5.71	4.58
3/28/2017	4.16					4.44			
3/29/2017		5.23	5.68	5.74	4.62		4.7		
3/30/2017									4.19
3/31/2017								4.58	
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	4.23	5.33				4.46			
7/12/2017			5.66	5.82	4.81		4.76		
7/13/2017								4.95	4.3
8/8/2017									
10/24/2017	4.06	5.05		5.79	4.8				
10/25/2017			6.18			4.54	4.66		
10/26/2017								4.41	4.39
11/15/2017					4.9				
2/27/2018	4.04	5.08	5.63	5.94	5.55	4.87			
2/28/2018							4.63		
3/1/2018								3.93	
3/2/2018									4.14
3/8/2018									
7/10/2018		5.11		5.62	5.27	4.77			
7/11/2018	4.03		5.61				4.71		
7/12/2018								4.33	4.36
11/6/2018	4	5.13		5.69	5.3	4.89			
11/7/2018			5.58				4.69	4.48	4.23
11/8/2018									
3/12/2019	3.98	5.07		5.7	5.26	4.42			
3/13/2019			5.61				4.76		
3/14/2019								3.88	4.12
8/27/2019	4.02		5.58	5.55	5.14	4.83			
8/28/2019		5.11					4.85		
8/29/2019								4.35	4.28
9/17/2019									
10/15/2019				5.6	4.96				
10/16/2019		5.33	5.66			4.78	4.87		
10/17/2019	4.02							4.6	
10/18/2019									4.22
3/2/2020				5.62		4.8			
3/3/2020	4.07	5.12	5.73		4.77		4.89		
3/4/2020								3.86	4.27
3/9/2020									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-14	DGWC-11	DGWC-10	DGWC-5	DGWC-19	DGWC-47	DGWC-48
8/11/2020	4		5.73	5.68	4.92		4.9		
8/12/2020		5.36				4.84		4.43	
8/13/2020									4.26
8/14/2020									
9/22/2020	4		5.7	5.54		4.83	4.91		
9/23/2020		5.21						4.4	4.64
9/24/2020					4.89				
3/1/2021									
3/2/2021	3.99	6.6	5.69	5.59		5	4.84		
3/3/2021								3.98	4.14
3/4/2021					5.27				
3/12/2021									
9/8/2021									
9/9/2021			5.7	5.59			4.82		
9/10/2021	3.98				5.05	4.89		4.1	4.3
9/13/2021		5.05							
1/18/2022									
1/20/2022									
1/21/2022								3.72	
1/24/2022						4.79			4.03
1/25/2022		5.16	5.69	5.54			4.79		
1/26/2022	3.68				4.9				
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022			5.71					4.15	4.25
9/14/2022						4.75	4.81		
9/15/2022		5.2		5.52	4.87				
9/16/2022									
9/19/2022	3.98								
9/20/2022									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWC-12	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016	4.7	5.7	5.74						
9/6/2016				5.79	5.69				
9/7/2016						5.35	5.05		
12/6/2016									
12/7/2016				5.94	5.96			5.65	
12/8/2016		5.64	6.03			5.41	5.12		
3/28/2017									6.01
3/29/2017	4.7		5.77					5.61	
3/30/2017		5.79		5.8	5.94		5.08		
3/31/2017						5.36			
5/11/2017									
5/12/2017									5.87
5/15/2017									
6/15/2017									6.03
6/16/2017									
7/11/2017									6.04
7/12/2017	4.67	5.71		5.81	5.84		5	5.81	
7/13/2017			5.71			5.27			
8/8/2017									
10/24/2017									5.99
10/25/2017	4.71	5.68	5.77	5.9		5.38	5.73	6.07	
10/26/2017									
11/15/2017					5.87				5.92
2/27/2018								5.73	6.03
2/28/2018	4.51	5.71	5.77	5.8	5.99	5.37	5.22		
3/1/2018									
3/2/2018									
3/8/2018									
7/10/2018					5.92				5.96
7/11/2018	4.68			5.87		5.19	5.07		
7/12/2018			5.62						
11/6/2018									5.97
11/7/2018	4.64	5.61	5.71	5.9	5.87	5.18	5.09	5.85	
11/8/2018									
3/12/2019								5.98	5.85
3/13/2019	4.65	5.62			5.79		5.07		
3/14/2019			5.67	5.77		5.1			
8/27/2019							4.96	5.55	5.84
8/28/2019				5.88	5.71	5.3			
8/29/2019	4.64	5.61	5.66						
9/17/2019								5.6	
10/15/2019								5.89	5.98
10/16/2019					5.69				
10/17/2019	4.64	5.57		5.76		5.2			
10/18/2019			5.61				5.08		
3/2/2020								6.13	5.88
3/3/2020		5.65	5.74	5.79	5.71		5.07		
3/4/2020	4.22					5.18	5.07		
3/9/2020									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWC-12	DGWC-4
8/11/2020								5.69	
8/12/2020					5.68				5.93
8/13/2020	4.36			6.58		5.34			
8/14/2020		5.66	5.76				5.01		
9/22/2020	4.66					5.76		6	5.88
9/23/2020				5.85	5.72				
9/24/2020		5.64	5.69				5.1		
3/1/2021									5.82
3/2/2021	4.45			5.81	5.68				
3/3/2021		5.63	5.71			5.3	5.23	6.13	
3/4/2021									
3/12/2021									
9/8/2021									
9/9/2021		5.73		5.83	5.69			6.07	
9/10/2021	4.67		5.65						5.83
9/13/2021						5.15	5.06		
1/18/2022									
1/20/2022		5.73	5.72			5.27			
1/21/2022	4.47								
1/24/2022				6.06			5.15		5.79
1/25/2022					4.68			5.96	
1/26/2022									
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022				5.82		5.04			
9/14/2022							5.08		
9/15/2022	4.58	5.69			5.56			5.75	
9/16/2022			5.62						
9/19/2022									5.76
9/20/2022									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-53 (bg)	DGWC-23	DGWC-2	DGWA-70A (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	5.94	6.29			
3/29/2017					
3/30/2017			6.03	5.75	
3/31/2017					
5/11/2017		6.6		5.67	
5/12/2017	5.46		5.97		
5/15/2017					5.72
6/15/2017		6.41	6	5.75	5.74
6/16/2017	5.81				
7/11/2017	5.74			5.87	5.62
7/12/2017		5.91	5.97		
7/13/2017					
8/8/2017					5.6
10/24/2017	5.86	5.51		5.82	5.71
10/25/2017					
10/26/2017			5.9		
11/15/2017	5.77	6.5			
2/27/2018	5.66			5.85	5.5
2/28/2018					
3/1/2018			6.19		
3/2/2018					
3/8/2018		6.18			
7/10/2018	5.63				5.44
7/11/2018				5.85	
7/12/2018		6.33	5.97		
11/6/2018	5.79			5.88	5.71
11/7/2018		6.22			
11/8/2018			5.96		
3/12/2019	5.74			5.94	5.52
3/13/2019		6			
3/14/2019			5.99		
8/27/2019	5.87			5.94	5.53
8/28/2019		6.04			
8/29/2019			5.96		
9/17/2019					
10/15/2019	5.88				5.61
10/16/2019		6.69			
10/17/2019				6.16	
10/18/2019			5.99		
3/2/2020	5.77				5.54
3/3/2020				5.94	
3/4/2020			5.68		
3/9/2020		6.41			

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-53 (bg)	DGWC-23	DGWC-2	DGWA-70A (bg)
8/11/2020	5.96			6.04	5.86
8/12/2020					
8/13/2020		6.17	6		
8/14/2020					
9/22/2020	6.06	6.43			6.01
9/23/2020				5.99	
9/24/2020			6.19		
3/1/2021	5.8				5.43
3/2/2021				6.01	
3/3/2021			5.85		
3/4/2021					
3/12/2021		6.38			
9/8/2021	5.76				
9/9/2021		6.41	6	6	5.5
9/10/2021					
9/13/2021					
1/18/2022	5.51				5.5
1/20/2022			5.95	5.93	
1/21/2022					
1/24/2022					
1/25/2022					
1/26/2022					
1/28/2022		6.35			
9/7/2022	5.65				5.6
9/8/2022		6.32			
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022					
9/20/2022			6	5.98	

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-5	DGWC-10	DGWC-11	DGWC-14	DGWC-12	DGWC-19	DGWC-48
8/30/2016	450	300							
8/31/2016			400	400	200	44			
9/1/2016							390	240	540
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	480	320	460	190	190	45			
12/7/2016							350	250	
12/8/2016									540
3/28/2017		300	380						
3/29/2017	660			360	200	81 (O)	150	250	
3/30/2017									550
3/31/2017									
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	440	320	440						
7/12/2017				390	210	44	350	250	
7/13/2017									500
8/8/2017									
10/24/2017	430	430		410	210				
10/25/2017			510			42	400	270	
10/26/2017									510
11/15/2017				390					
2/27/2018	340	327	453	335	220	41	356		
2/28/2018								244	
3/1/2018									
3/2/2018									456
3/8/2018									
7/11/2018		344				40.6	344	249	
7/12/2018									409
11/6/2018	307	438	556	356	302				
11/7/2018						41.3	298	266	432
11/8/2018									
3/12/2019	295	362	484	297	275		284		
3/13/2019						41.2		299	
3/14/2019									450
10/15/2019				263	273		270		
10/16/2019	235		493			42.1		323	
10/17/2019		331							
10/18/2019									336
3/2/2020			455		264		181		
3/3/2020	195	247		213		45.5		292	
3/4/2020									368
3/9/2020									
9/22/2020		282	423		267	40.2	183	310	
9/23/2020	178								313
9/24/2020				204					
3/1/2021									
3/2/2021	152	266	412		250	42.6		324	

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-5	DGWC-10	DGWC-11	DGWC-14	DGWC-12	DGWC-19	DGWC-48
3/3/2021							203		312
3/4/2021				240					
3/12/2021									
9/8/2021									
9/9/2021					247	42.3	126	315	
9/10/2021		264	449	271					272
9/13/2021	145								
1/18/2022									
1/20/2022									
1/21/2022									
1/24/2022			434						265
1/25/2022	134				250	44.4	111	288	
1/26/2022		245		241					
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022						41.2			309
9/14/2022			505					388	
9/15/2022	134			229	287		191		
9/16/2022									
9/19/2022		274							
9/20/2022									

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-20	DGWC-21	DGWC-22	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	470								
9/2/2016		580	300	140					
9/6/2016					170	180			
9/7/2016							230	370	
12/6/2016									
12/7/2016		650			160	180			
12/8/2016	400		280	260			240	350	
3/28/2017									680
3/29/2017		640		290					
3/30/2017			270		180	210	260		
3/31/2017	350							380	
5/11/2017									
5/12/2017									680
5/15/2017									
6/15/2017									730
6/16/2017									
7/11/2017									740
7/12/2017		630	290		170	170	230		
7/13/2017	270			300				370	
8/8/2017									
10/24/2017									930
10/25/2017		610	290	290		180	240	370	
10/26/2017	290								
11/15/2017					180				820
2/27/2018									811
2/28/2018		584	267	278	43.5	168	203	350	
3/1/2018	245								
3/2/2018									
3/8/2018									
7/11/2018		501	277			154	234	366	
7/12/2018	240			197					
11/6/2018									902
11/7/2018	143	554	286	320	162	168	248	439	
11/8/2018									
3/12/2019									987
3/13/2019		539	312		179		268		
3/14/2019	238			297		195		404	
10/15/2019									888
10/16/2019					167				
10/17/2019	179	426	255			146		321	
10/18/2019				254			222		
3/2/2020									840
3/3/2020			269	242	157	148			
3/4/2020	176	434					222	329	
3/9/2020									
9/22/2020		408						320	800
9/23/2020	111				134	146			
9/24/2020			269	262			259		
3/1/2021									840
3/2/2021		458			131	148			

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-20	DGWC-21	DGWC-22	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWC-4
3/3/2021	143		264	252			237	329	
3/4/2021									
3/12/2021									
9/8/2021									
9/9/2021			238		127	139			
9/10/2021	123	399		234					823
9/13/2021							222	285	
1/18/2022									
1/20/2022			223	221				281	
1/21/2022	135	406							
1/24/2022						127	225		816
1/25/2022					116				
1/26/2022									
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022	150					145		326	
9/14/2022							268		
9/15/2022		462	268		133				
9/16/2022				265					
9/19/2022									925
9/20/2022									

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-2	DGWC-23
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	49	17	2.7		
3/29/2017					
3/30/2017				360	220
3/31/2017					
5/11/2017	21			340	
5/12/2017		17			220
5/15/2017			1		
6/15/2017	16		0.86 (J)	300	200
6/16/2017		11			
7/11/2017		11	1.4	330	
7/12/2017	10				220
7/13/2017					
8/8/2017			1.5		
10/24/2017	15	9.6	1.4	260	
10/25/2017					
10/26/2017					220
11/15/2017	3.8	7.8			
2/27/2018		7.4	0.54 (J)	189	
2/28/2018					
3/1/2018					209
3/2/2018					
3/8/2018	9.7				
7/11/2018				162	
7/12/2018	8				202
11/6/2018		7.3	<1 (J)	190	
11/7/2018	12.8				
11/8/2018					292
3/12/2019		7	0.35 (J)	159	
3/13/2019	23.7				
3/14/2019					266
10/15/2019		7.4	0.16 (J)		
10/16/2019	15.1				
10/17/2019				134	
10/18/2019					203
3/2/2020		8.5	<1		
3/3/2020				118	
3/4/2020					204
3/9/2020	9.5				
9/22/2020	13.5	6.5	<1		
9/23/2020				122	
9/24/2020					215
3/1/2021		5.2	<1		
3/2/2021				112	

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-2	DGWC-23
3/3/2021					221
3/4/2021					
3/12/2021	8.8				
9/8/2021		6.1			
9/9/2021	11.9		<1	110	217
9/10/2021					
9/13/2021					
1/18/2022		6.3	<1		
1/20/2022				101	211
1/21/2022					
1/24/2022					
1/25/2022					
1/26/2022					
1/28/2022	13.1				
9/7/2022		7	<1		
9/8/2022	12				
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022					
9/20/2022				98.4	242

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-10	DGWC-5	DGWC-11	DGWC-14	DGWC-19	DGWC-48	DGWC-12
8/30/2016	693	414							
8/31/2016			525	524	307	106			
9/1/2016							396	845	568
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	727	449	595	690	358	138			
12/7/2016							400		559
12/8/2016								777	
3/28/2017		404		545					
3/29/2017	654		525		300	102	390		550
3/30/2017								775	
3/31/2017									
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	679	436		612					
7/12/2017			598		382	118	360		594
7/13/2017								789	
8/8/2017									
10/24/2017	468	599	353		342				
10/25/2017				650		88	423		571
10/26/2017								753	
11/15/2017			582						
2/27/2018	520	482	542	698	393	99			582
2/28/2018							440		
3/1/2018									
3/2/2018								704	
3/8/2018									
7/11/2018		532				119	457		593
7/12/2018								705	
11/6/2018	456	554	512	809	412				
11/7/2018						113	461	678	504
11/8/2018									
3/12/2019	438	493	436	711	433				465
3/13/2019						280	113		
3/14/2019								625	
10/15/2019			447		461				472
10/16/2019	374			702		104	500		
10/17/2019		550							
10/18/2019								593	
3/2/2020				759	458				338
3/3/2020	369	444	382			123	526		
3/4/2020								630	
3/9/2020									
9/22/2020		461		716	481	105	513		338
9/23/2020	333							575	
9/24/2020			283						
3/1/2021									
3/2/2021	291	449		730	456	105	513		

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-10	DGWC-5	DGWC-11	DGWC-14	DGWC-19	DGWC-48	DGWC-12
3/3/2021								521	325
3/4/2021			430						
3/12/2021									
9/8/2021									
9/9/2021					433	99	480		275
9/10/2021		466	474	792				532	
9/13/2021	306								
1/18/2022									
1/20/2022									
1/21/2022									
1/24/2022				810				500	
1/25/2022	281				465	120	694		258
1/26/2022		409	425						
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022						80		527	
9/14/2022				850			572		
9/15/2022	234		280		414				377
9/16/2022									
9/19/2022		456							
9/20/2022									

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-20	DGWC-22	DGWC-21	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	704								
9/2/2016		1100	502	459					
9/6/2016					296	304			
9/7/2016							611	353	
12/6/2016									
12/7/2016		930			270	287			
12/8/2016	587		464	491			535	408	
3/28/2017									1160
3/29/2017		923	462						
3/30/2017				436	287	312		338	
3/31/2017	545						661		
5/11/2017									
5/12/2017									1230
5/15/2017									
6/15/2017									1290
6/16/2017									
7/11/2017									1160
7/12/2017		956		505	312	490 (O)		417	
7/13/2017	441		492				641		
8/8/2017									
10/24/2017									229
10/25/2017		854	477	474		290	626	343	
10/26/2017	444								
11/15/2017					325				1330
2/27/2018									1380
2/28/2018		888	476	480	84	313	616	364	
3/1/2018	435								
3/2/2018									
3/8/2018									
7/11/2018		826		485		320	638	393	
7/12/2018	372		486						
11/6/2018									1480
11/7/2018	348	834	511	516	314	325	626	408	
11/8/2018									
3/12/2019									1490
3/13/2019		639		486	656			802	
3/14/2019	378		491			340	630		
10/15/2019									1520
10/16/2019					296				
10/17/2019	327	751		498		319	612		
10/18/2019			480					403	
3/2/2020									1540
3/3/2020			452	490	263	323			
3/4/2020	334	761					721	414	
3/9/2020									
9/22/2020		724					547		1400
9/23/2020	229				278	317			
9/24/2020			455	494				411	
3/1/2021									1140
3/2/2021		742			256	272			

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-20	DGWC-22	DGWC-21	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWC-4
3/3/2021	228		442	459			531	384	
3/4/2021									
3/12/2021									
9/8/2021									
9/9/2021				396	246	292			
9/10/2021	274	678	468						1520
9/13/2021							508	424	
1/18/2022									
1/20/2022			434	451			504		
1/21/2022	289	702							
1/24/2022						294		426	1520
1/25/2022					256				
1/26/2022									
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022	277					289	540		
9/14/2022								434	
9/15/2022		618		440	216				
9/16/2022			462						
9/19/2022									1670
9/20/2022									

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-2	DGWC-23
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	202	39	90		
3/29/2017					
3/30/2017				580	380
3/31/2017					
5/11/2017	241			573	
5/12/2017			92		438
5/15/2017		88			
6/15/2017	251	65		626	458
6/16/2017			100		
7/11/2017		25	59	542	
7/12/2017	218				461
7/13/2017					
8/8/2017		53			
10/24/2017	671 (O)	49	117	523	
10/25/2017					
10/26/2017					446
11/15/2017	241		90		
2/27/2018		43	79	401	
2/28/2018					
3/1/2018					454
3/2/2018					
3/8/2018	213				
7/11/2018				334	
7/12/2018	198				432
11/6/2018		65	85	334	
11/7/2018	200				
11/8/2018					450
3/12/2019		43	74	297	
3/13/2019	201				
3/14/2019					453
10/15/2019		70	89		
10/16/2019	126				
10/17/2019				302	
10/18/2019					448
3/2/2020		52	67		
3/3/2020				277	
3/4/2020					408
3/9/2020	171				
9/22/2020	142	46	74		
9/23/2020				267	
9/24/2020					456
3/1/2021		25	62		
3/2/2021				241	

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/19/2022 2:45 AM View: Constituents View

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-2	DGWC-23
3/3/2021					425
3/4/2021					
3/12/2021	124				
9/8/2021			75		
9/9/2021	131	53		260	455
9/10/2021					
9/13/2021					
1/18/2022		54	76		
1/20/2022				238	453
1/21/2022					
1/24/2022					
1/25/2022					
1/26/2022					
1/28/2022	155				
9/7/2022		34	82		
9/8/2022	129				
9/13/2022					
9/14/2022					
9/15/2022					
9/16/2022					
9/19/2022					
9/20/2022				230	511

FIGURE E.

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/19/2022, 2:50 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWC-10	-0.6423	-83	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-11	0.095	88	53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-12	-1.28	-89	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-17	0.0358	60	58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-19	-0.1619	-61	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-2	-0.2101	-114	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-20	-0.5955	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-4	0.2684	71	53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-47	-0.03016	-96	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-48	-0.06746	-88	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-8	-0.3705	-92	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-9	-0.2529	-99	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-53 (bg)	-3.715	-76	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-11	4.261	83	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-12	-10.06	-78	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-19	6.369	102	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-21	1.958	62	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-23	2.115	61	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-4	22.28	73	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-48	-6.895	-100	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-5	6.333	65	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-53 (bg)	-0.1771	-85	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-15	0.4392	59	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-19	-3.747	-98	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-20	2.426	101	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-21	-1.053	-91	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-22	-2.126	-93	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-23	-0.8986	-101	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-4	-3.414	-114	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-42	-2.91	-102	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-48	-1.826	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-5	0.3411	57	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-9	0.626	69	58	Yes	16	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-47	-0.1679	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-48	-0.1553	-91	-68	Yes	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.04093	79	68	Yes	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-47	-0.1631	-73	-68	Yes	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.07276	69	68	Yes	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-9	-0.02181	-104	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-70A (bg)	-0.1765	-60	-58	Yes	16	43.75	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-71 (bg)	-1.051	-88	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-12	-42.42	-73	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-15	-8.479	-82	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-19	17.24	77	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-2	-44.93	-112	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-20	-45.89	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-21	-7.273	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-42	-13.23	-61	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-47	-44.25	-93	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-48	-52.03	-101	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-8	-66.86	-98	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-21.09	-79	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	28.16	64	53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	-58.28	-77	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	10.39	59	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	31.56	79	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-55.19	-94	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	79.41	70	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-57.63	-104	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	43.17	81	53	Yes	15	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/19/2022, 2:50 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWA-53 (bg)	-0.003305	-39	-58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-70A (bg)	0	33	58	No	16	56.25	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-71 (bg)	0.0007215	16	53	No	15	26.67	n/a	n/a	0.01	NP
Boron, total (mg/L)	**DGWC-10**	**-0.6423**	**-83**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**DGWC-11**	**0.095**	**88**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**DGWC-12**	**-1.28**	**-89**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	DGWC-13	-0.05906	-47	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-15	0.005901	15	58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**DGWC-17**	**0.0358**	**60**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**DGWC-19**	**-0.1619**	**-61**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**DGWC-2**	**-0.2101**	**-114**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**DGWC-20**	**-0.5955**	**-84**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	DGWC-21	0.2627	34	58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-22	0.06805	27	58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-23	0.08846	30	58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**DGWC-4**	**0.2684**	**71**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	DGWC-42	-0.01051	-20	-58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**DGWC-47**	**-0.03016**	**-96**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**DGWC-48**	**-0.06746**	**-88**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	DGWC-5	-0.04623	-8	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**DGWC-8**	**-0.3705**	**-92**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**DGWC-9**	**-0.2529**	**-99**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**DGWA-53 (bg)**	**-3.715**	**-76**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	DGWA-70A (bg)	-0.03479	-12	-58	No	16	6.25	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-71 (bg)	-0.4482	-35	-53	No	15	6.667	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-10	-1.696	-29	-53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**DGWC-11**	**4.261**	**83**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**DGWC-12**	**-10.06**	**-78**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**DGWC-19**	**6.369**	**102**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	DGWC-20	-4.337	-42	-58	No	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**DGWC-21**	**1.958**	**62**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	DGWC-22	0.2951	21	58	No	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**DGWC-23**	**2.115**	**61**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**DGWC-4**	**22.28**	**73**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**DGWC-48**	**-6.895**	**-100**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**DGWC-5**	**6.333**	**65**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	DGWC-9	-5.436	-52	-58	No	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**DGWA-53 (bg)**	**-0.1771**	**-85**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	DGWA-70A (bg)	-0.06575	-45	-58	No	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-71 (bg)	0.3259	40	58	No	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-11	0.5735	41	53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-13	-0.2472	-13	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**DGWC-15**	**0.4392**	**59**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	DGWC-17	0.3354	28	58	No	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**DGWC-19**	**-3.747**	**-98**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**DGWC-20**	**2.426**	**101**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**DGWC-21**	**-1.053**	**-91**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**DGWC-22**	**-2.126**	**-93**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**DGWC-23**	**-0.8986**	**-101**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**DGWC-4**	**-3.414**	**-114**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**DGWC-42**	**-2.91**	**-102**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**DGWC-48**	**-1.826**	**-84**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**DGWC-5**	**0.3411**	**57**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	DGWC-8	-0.2292	-43	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**DGWC-9**	**0.626**	**69**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride, total (mg/L)	DGWA-53 (bg)	-0.0006648	-9	-74	No	19	10.53	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-70A (bg)	0	47	63	No	17	64.71	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-71 (bg)	0	22	68	No	18	77.78	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-10	0	4	68	No	18	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-20	0.04015	19	68	No	18	5.556	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	**DGWC-47**	**-0.1679**	**-89**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride, total (mg/L)	**DGWC-48**	**-0.1553**	**-91**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride, total (mg/L)	DGWC-9	0	7	68	No	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-53 (bg)	0.01874	12	74	No	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-70A (bg)	-0.02257	-32	-68	No	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-71 (bg)	0	1	74	No	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-10	0.02347	21	74	No	19	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-17	0	4	74	No	19	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

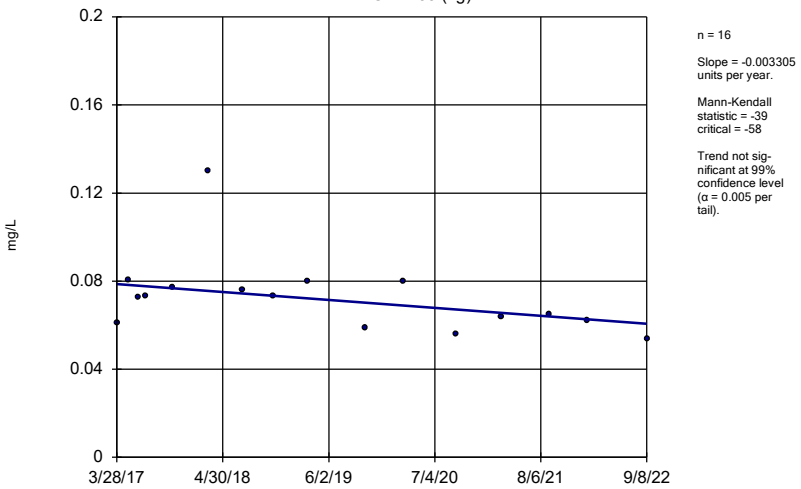
Plant McDonough Client: Southern Company Data: McDonough AP Printed 10/19/2022, 2:50 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH, Field (SU)	**DGWC-19**	**0.04093**	**79**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	DGWC-20	-0.02109	-57	-63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-42	-0.02876	-52	-68	No	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	**DGWC-47**	**-0.1631**	**-73**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	DGWC-48	-0.03316	-43	-68	No	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	**DGWC-5**	**0.07276**	**69**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**DGWC-9**	**-0.02181**	**-104**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	DGWA-53 (bg)	-0.7643	-32	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**DGWA-70A (bg)**	**-0.1765**	**-60**	**-58**	**Yes**	**16**	**43.75**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**DGWA-71 (bg)**	**-1.051**	**-88**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	DGWC-10	-30.79	-57	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-11	11.92	48	53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**DGWC-12**	**-42.42**	**-73**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	DGWC-13	-8.581	-53	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**DGWC-15**	**-8.479**	**-82**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	DGWC-17	0	2	58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**DGWC-19**	**17.24**	**77**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**DGWC-2**	**-44.93**	**-112**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**DGWC-20**	**-45.89**	**-84**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**DGWC-21**	**-7.273**	**-62**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	DGWC-22	-5.891	-21	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-23	0.2684	10	58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-4	27.81	42	58	No	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**DGWC-42**	**-13.23**	**-61**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**DGWC-47**	**-44.25**	**-93**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**DGWC-48**	**-52.03**	**-101**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	DGWC-5	4.117	7	53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**DGWC-8**	**-66.86**	**-98**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	DGWC-9	-11.5	-36	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWA-53 (bg)**	**-21.09**	**-79**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWA-70A (bg)	-2.113	-12	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-71 (bg)	-3.712	-40	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-11**	**28.16**	**64**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-12**	**-58.28**	**-77**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	-0.7883	-3	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-17**	**10.39**	**59**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-19**	**31.56**	**79**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-20**	**-55.19**	**-94**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	-4.363	-17	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	-5.96	-47	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	2.758	21	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-4**	**79.41**	**70**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	-19.72	-45	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-48**	**-57.63**	**-104**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-5**	**43.17**	**81**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	1.122	3	58	No	16	0	n/a	n/a	0.01	NP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWA-53 (bg)



n = 16

Slope = -0.003305 units per year.

Mann-Kendall statistic = -39
critical = -58

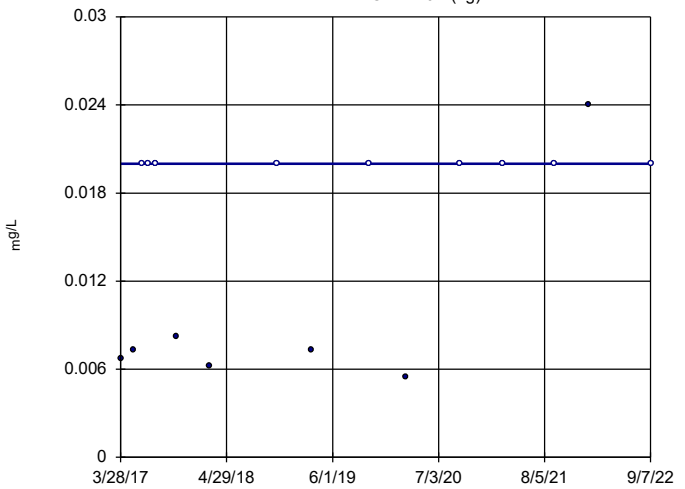
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = 33
critical = 58

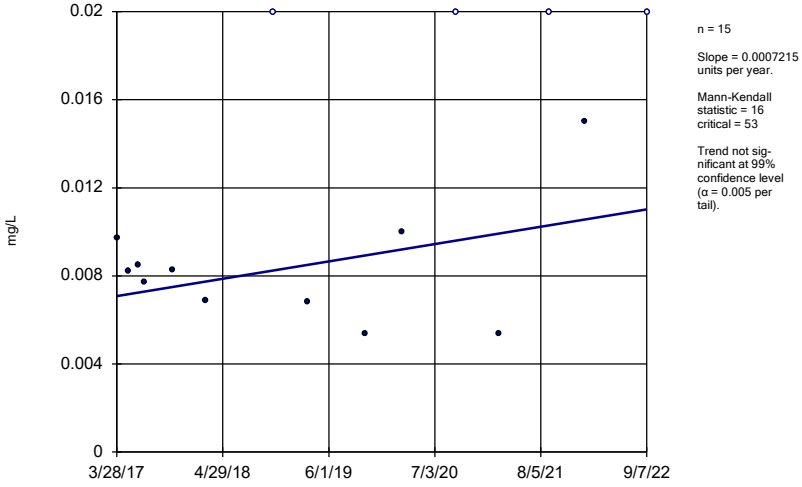
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 15

Slope = 0.0007215 units per year.

Mann-Kendall statistic = 16
critical = 53

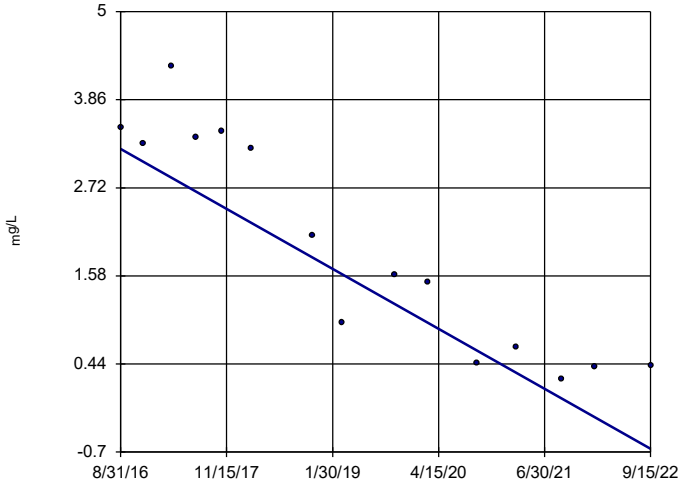
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-10



n = 15

Slope = -0.6423 units per year.

Mann-Kendall statistic = -83
critical = -53

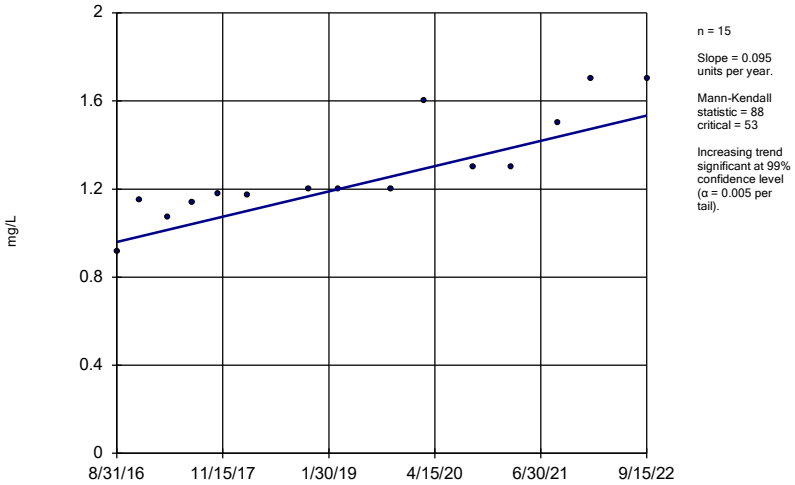
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-11



n = 15

Slope = 0.095 units per year.

Mann-Kendall statistic = 88 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

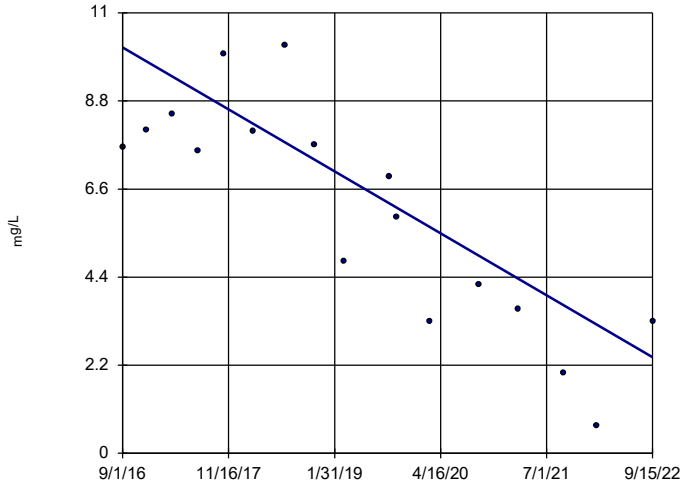
Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-12



n = 17

Slope = -1.28 units per year.

Mann-Kendall statistic = -89 critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

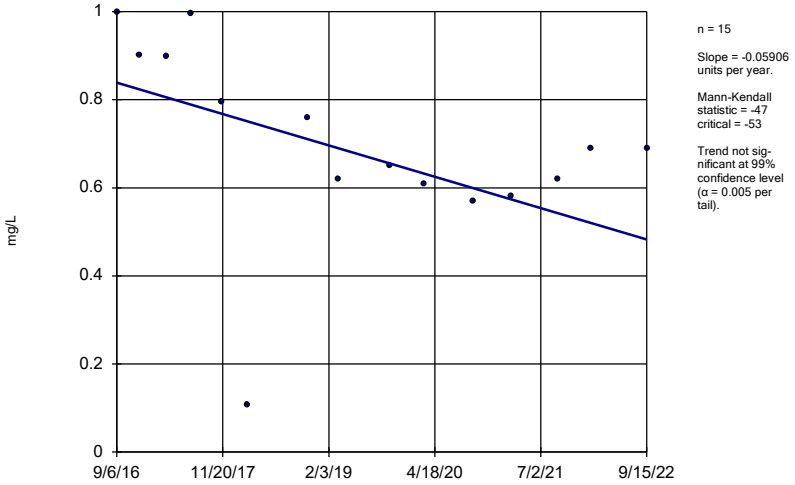
Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-13



n = 15

Slope = -0.05906 units per year.

Mann-Kendall statistic = -47 critical = -53

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

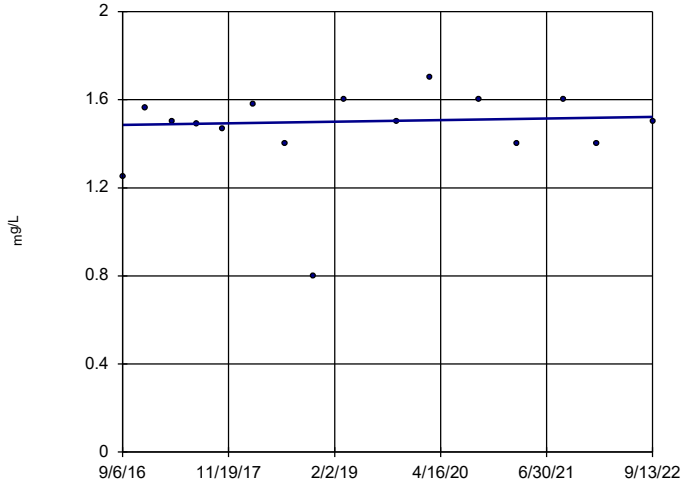
Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-15



n = 16

Slope = 0.005901 units per year.

Mann-Kendall statistic = 15 critical = 58

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

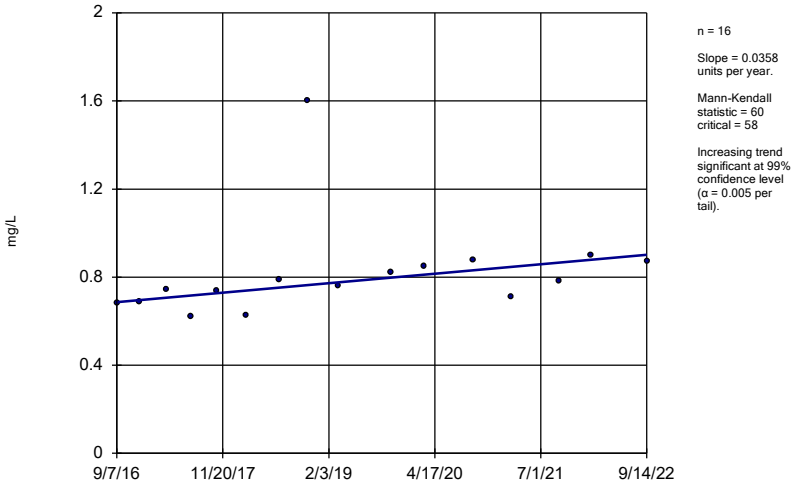
Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-17



n = 16

Slope = 0.0358 units per year.

Mann-Kendall statistic = 60
critical = 58

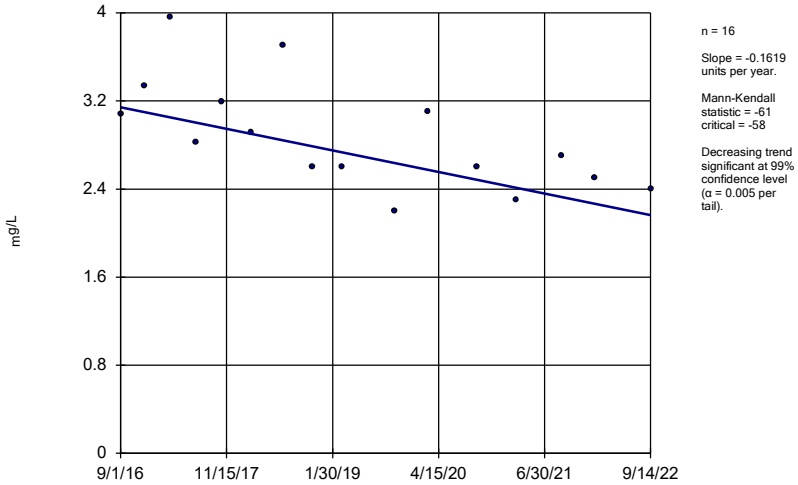
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-19



n = 16

Slope = -0.1619 units per year.

Mann-Kendall statistic = -61
critical = -58

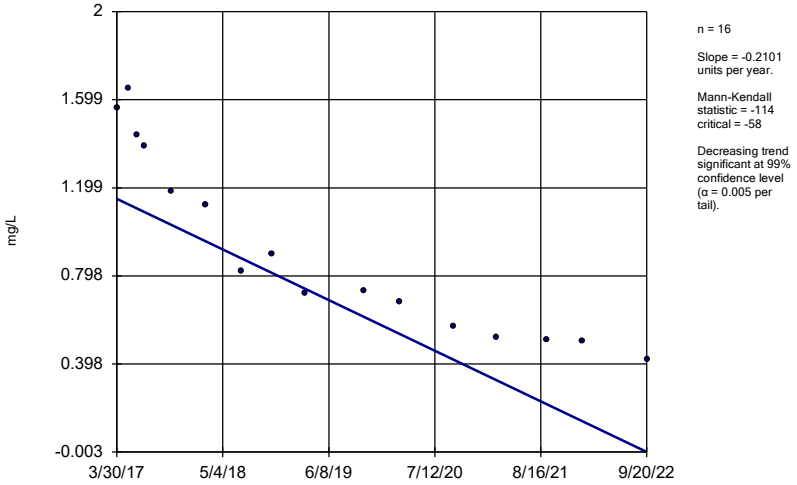
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-2



n = 16

Slope = -0.2101 units per year.

Mann-Kendall statistic = -114
critical = -58

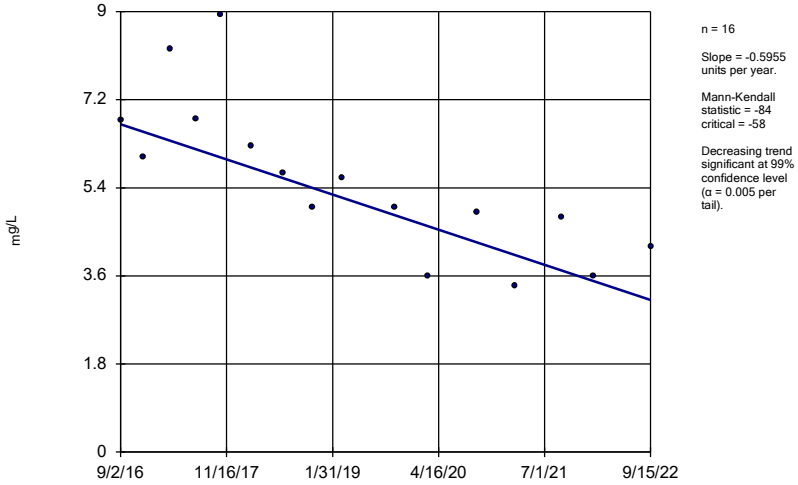
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-20



n = 16

Slope = -0.5955 units per year.

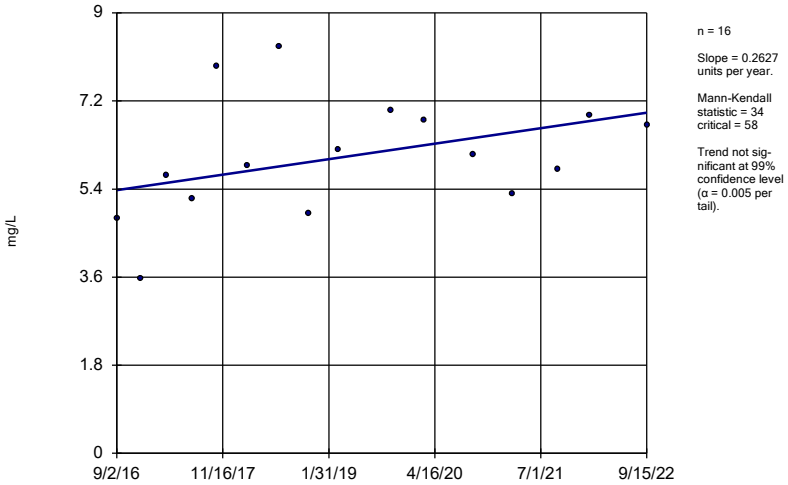
Mann-Kendall statistic = -84
critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-21



n = 16

Slope = 0.2627 units per year.

Mann-Kendall statistic = 34 critical = 58

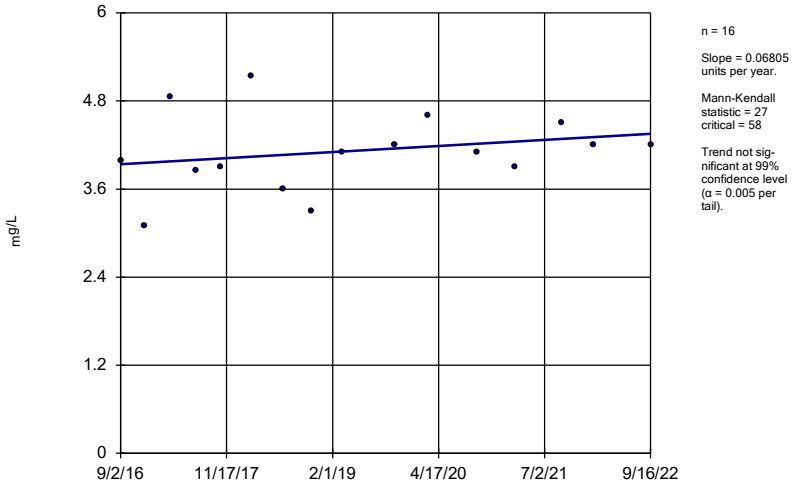
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-22



n = 16

Slope = 0.06805 units per year.

Mann-Kendall statistic = 27 critical = 58

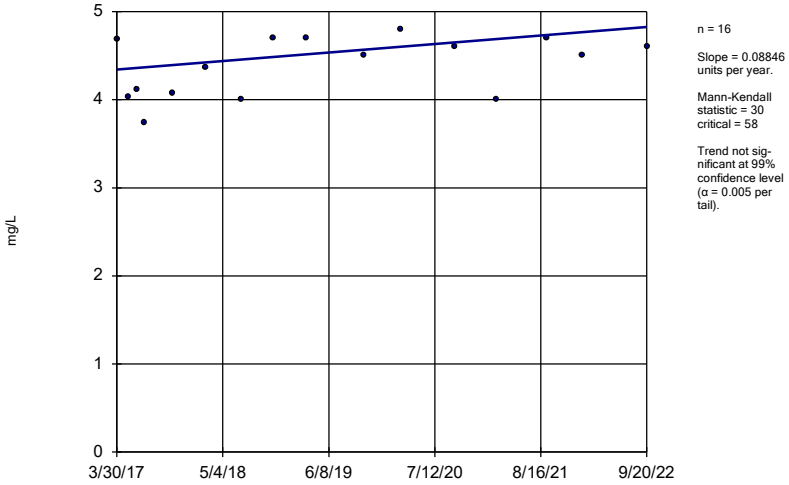
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-23



n = 16

Slope = 0.08846 units per year.

Mann-Kendall statistic = 30 critical = 58

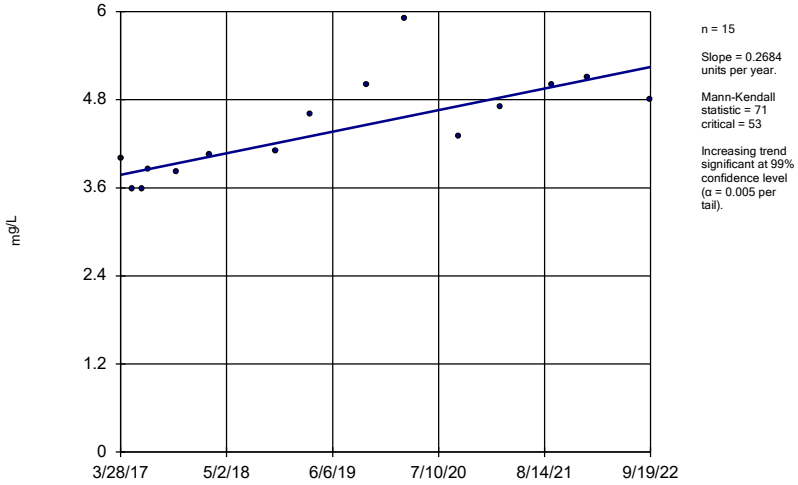
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-4



n = 15

Slope = 0.2684 units per year.

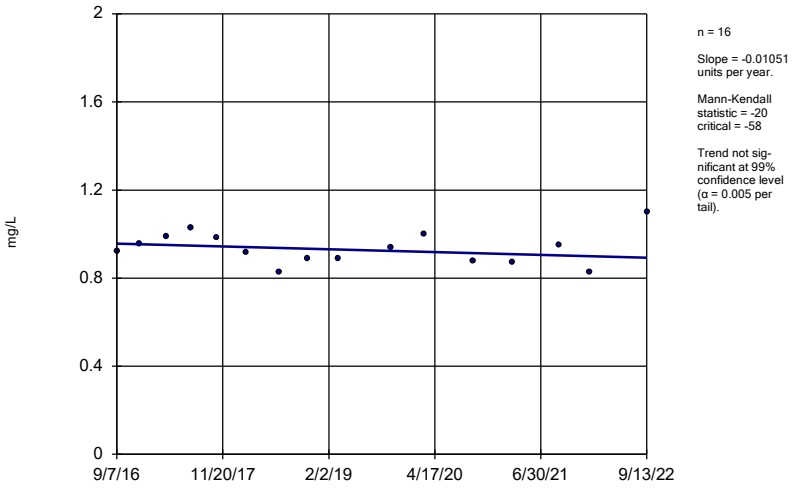
Mann-Kendall statistic = 71 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-42



n = 16

Slope = -0.01051 units per year.

Mann-Kendall statistic = -20
critical = -58

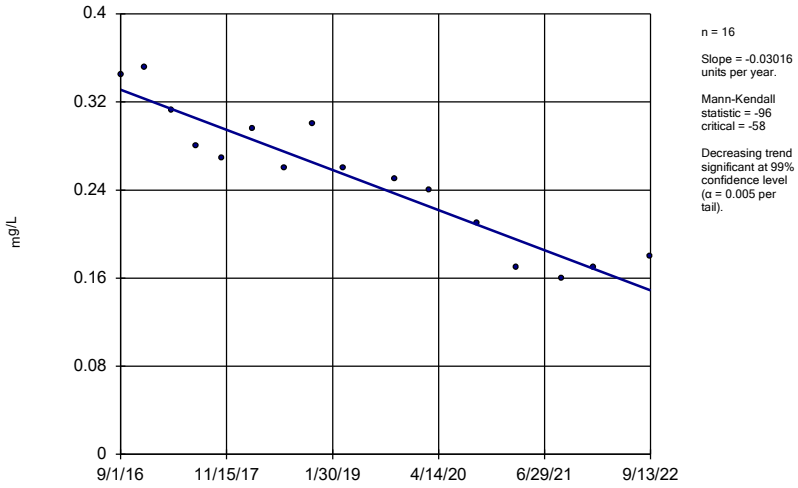
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-47



n = 16

Slope = -0.03016 units per year.

Mann-Kendall statistic = -96
critical = -58

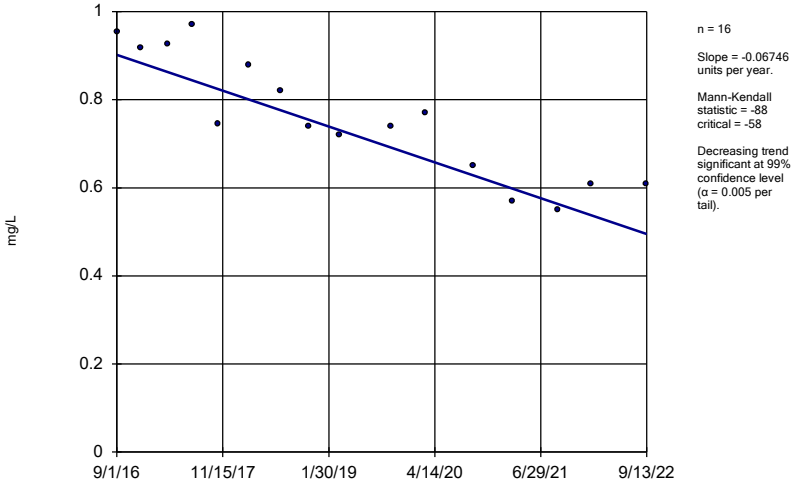
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-48



n = 16

Slope = -0.06746 units per year.

Mann-Kendall statistic = -88
critical = -58

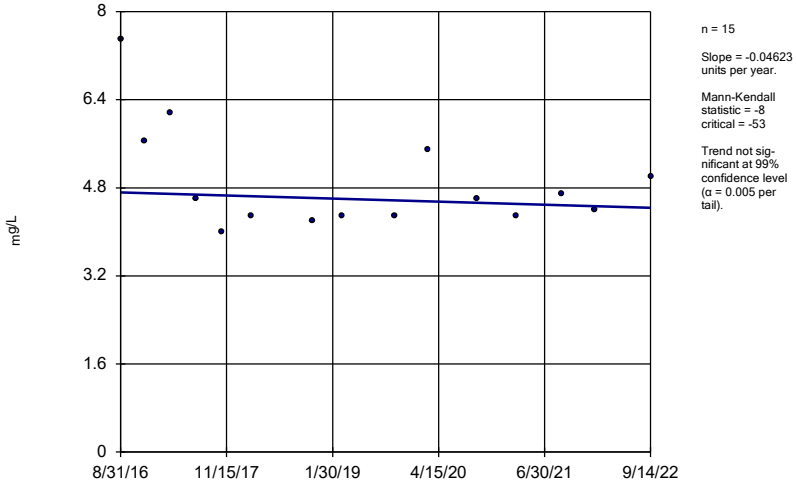
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-5



n = 15

Slope = -0.04623 units per year.

Mann-Kendall statistic = -8
critical = -53

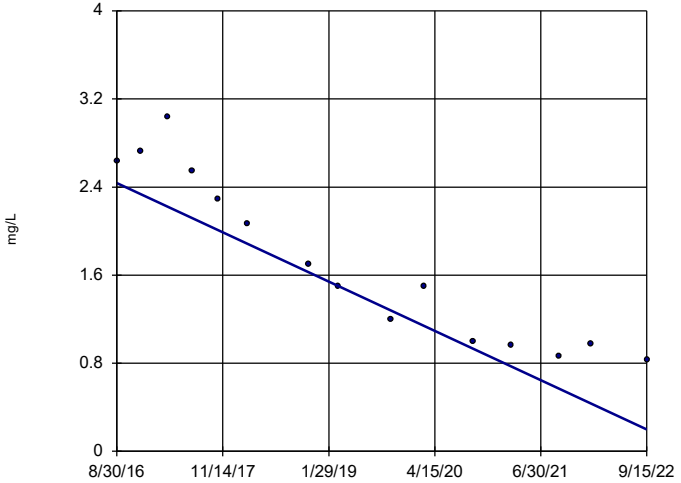
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-8



n = 15

Slope = -0.3705 units per year.

Mann-Kendall statistic = -92
critical = -53

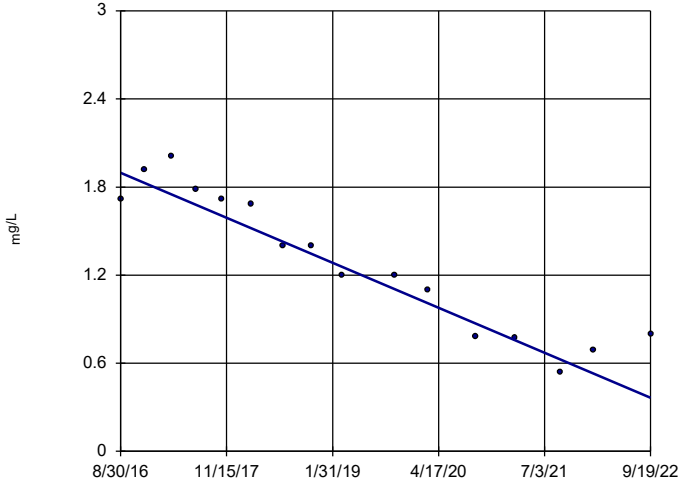
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-9



n = 16

Slope = -0.2529 units per year.

Mann-Kendall statistic = -99
critical = -58

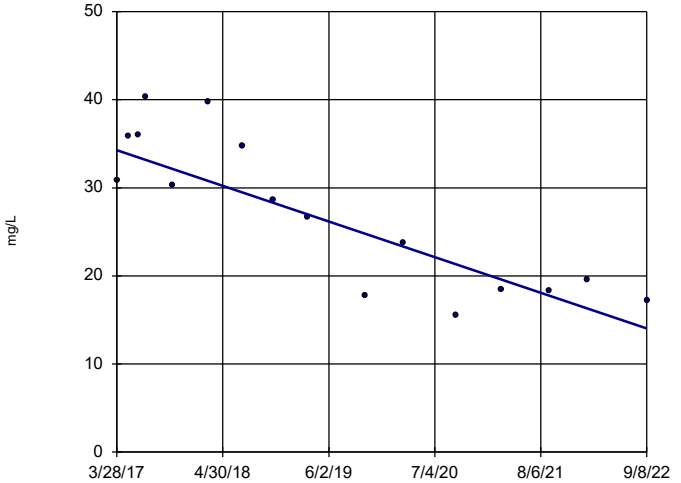
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWA-53 (bg)



n = 16

Slope = -3.715 units per year.

Mann-Kendall statistic = -76
critical = -58

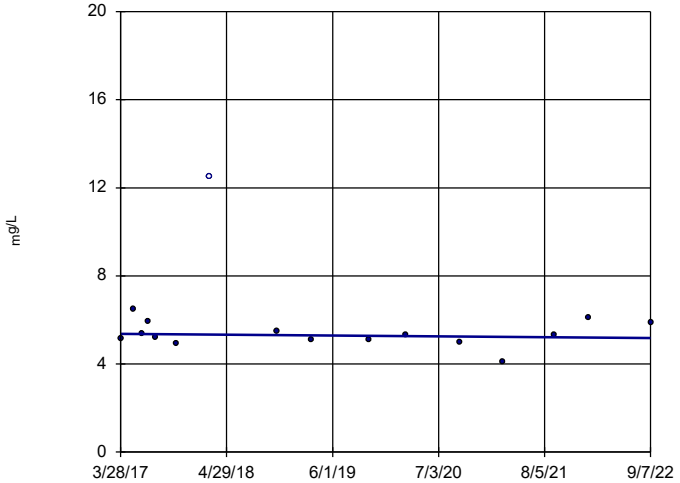
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 16

Slope = -0.03479 units per year.

Mann-Kendall statistic = -12
critical = -58

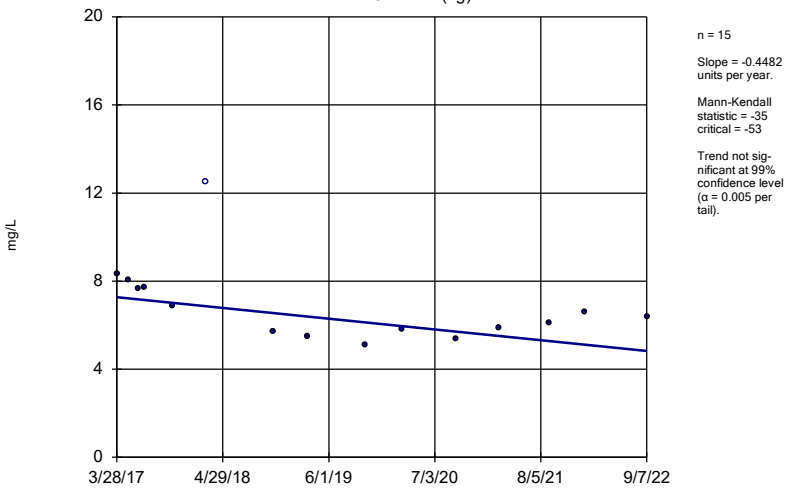
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 15

Slope = -0.4482 units per year.

Mann-Kendall statistic = -35
critical = -53

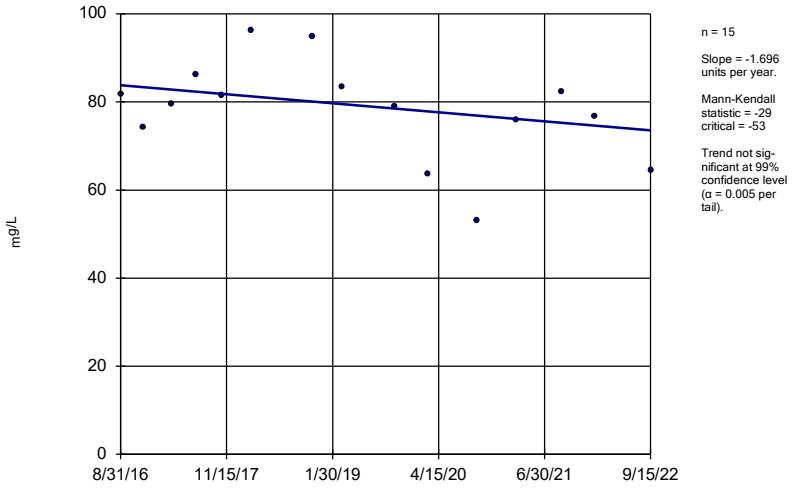
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-10



n = 15

Slope = -1.696 units per year.

Mann-Kendall statistic = -29
critical = -53

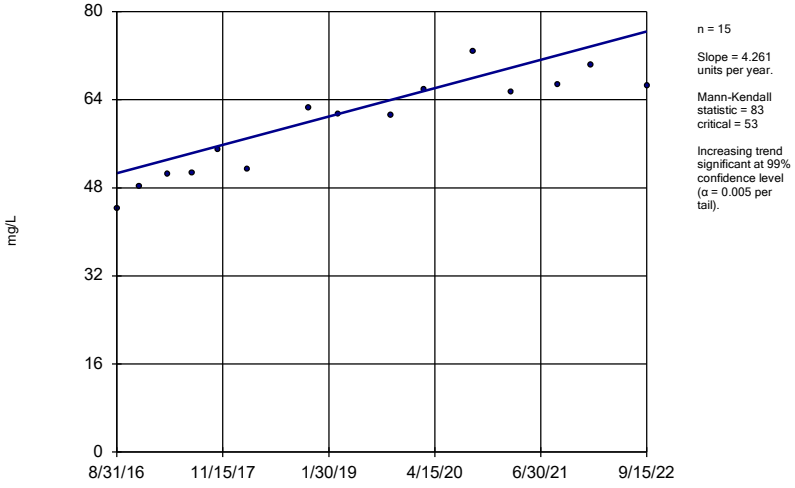
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 10/19/2022 2:46 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-11



n = 15

Slope = 4.261 units per year.

Mann-Kendall statistic = 83
critical = 53

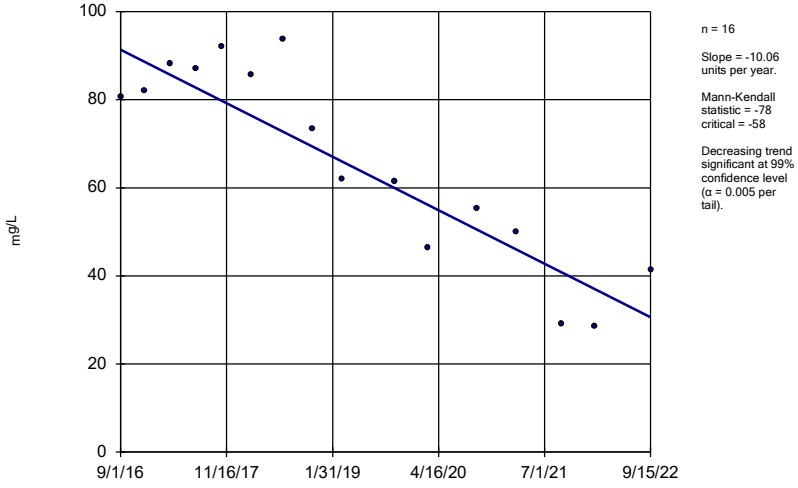
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-12



n = 16

Slope = -10.06 units per year.

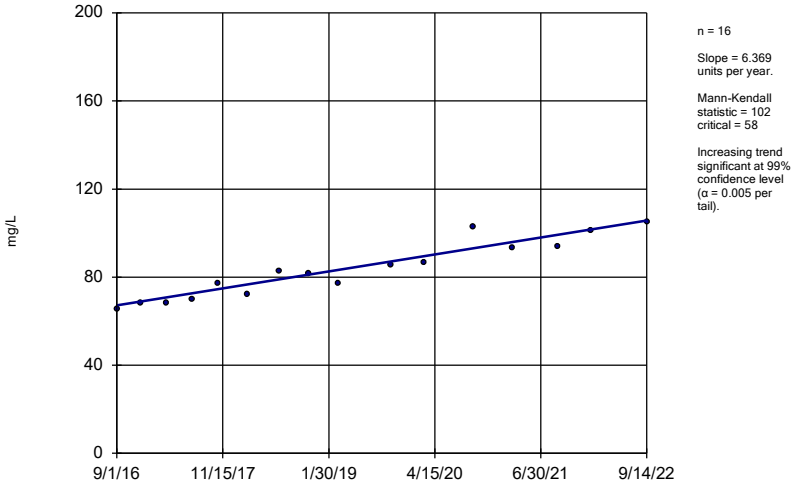
Mann-Kendall statistic = -78
critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-19



n = 16

Slope = 6.369 units per year.

Mann-Kendall statistic = 102 critical = 58

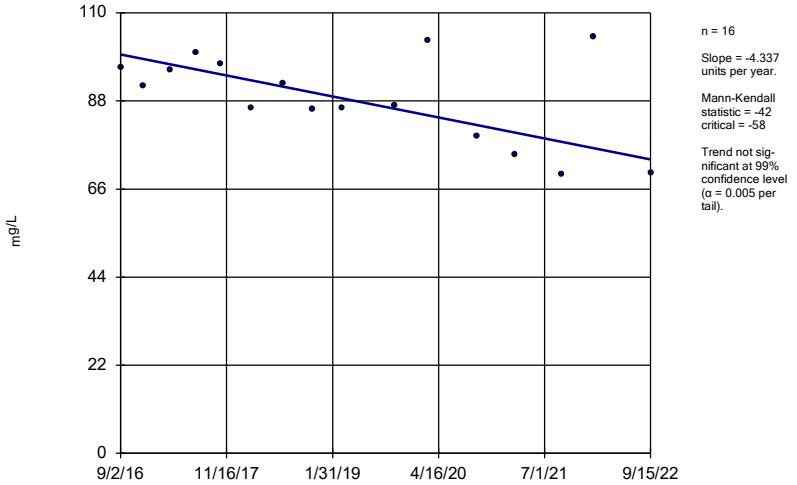
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-20



n = 16

Slope = -4.337 units per year.

Mann-Kendall statistic = -42 critical = -58

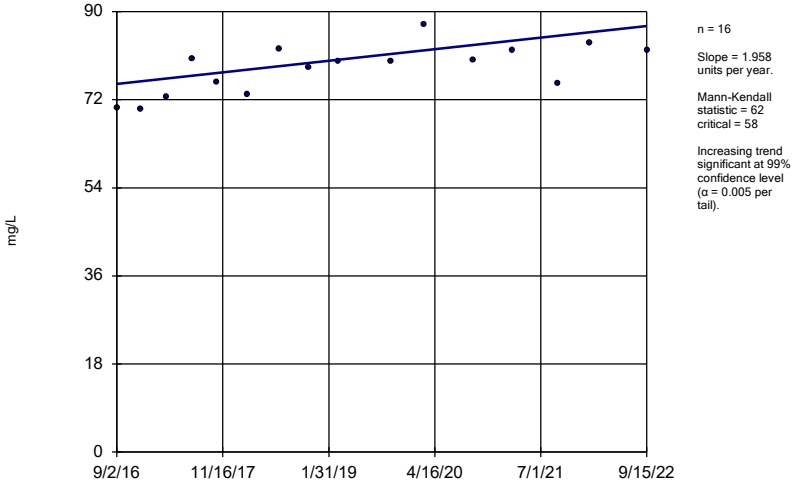
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-21



n = 16

Slope = 1.958 units per year.

Mann-Kendall statistic = 62 critical = 58

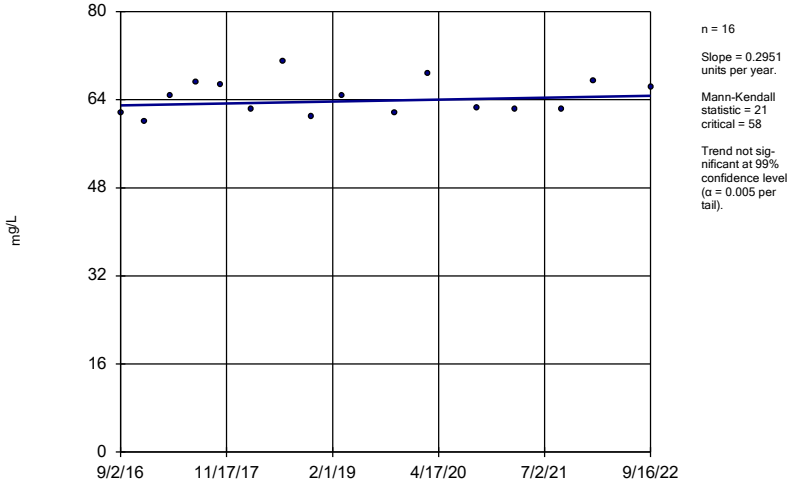
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-22



n = 16

Slope = 0.2951 units per year.

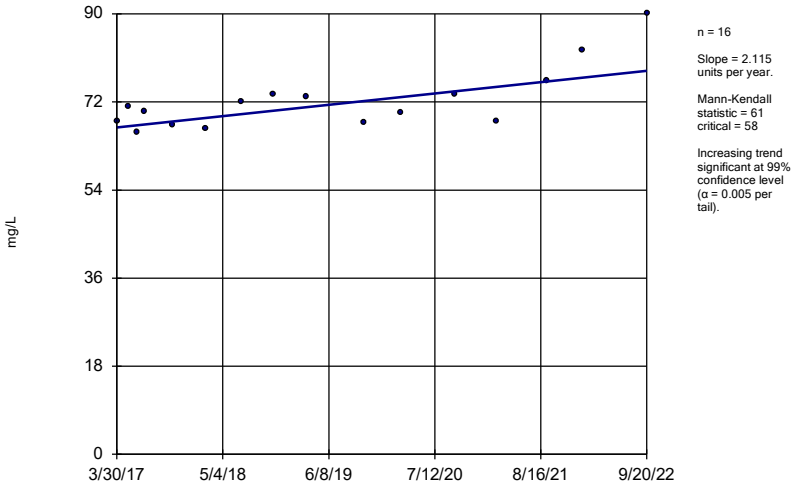
Mann-Kendall statistic = 21 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-23



n = 16

Slope = 2.115 units per year.

Mann-Kendall statistic = 61 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

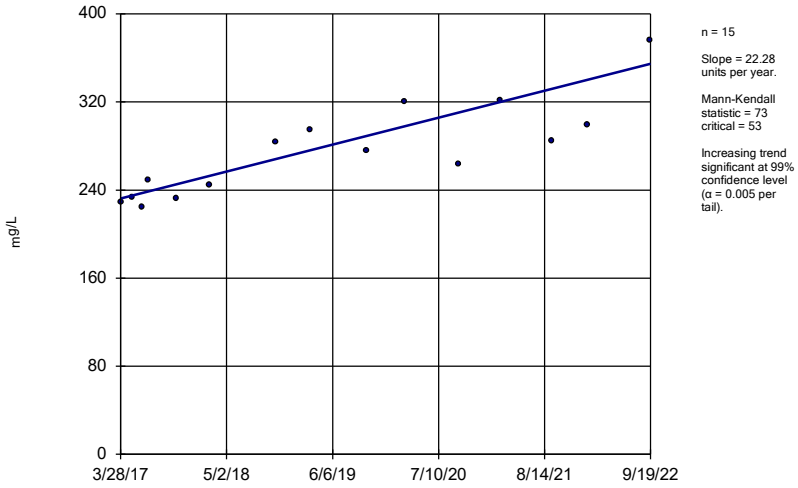
Constituent: Calcium, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-4



n = 15

Slope = 22.28 units per year.

Mann-Kendall statistic = 73 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

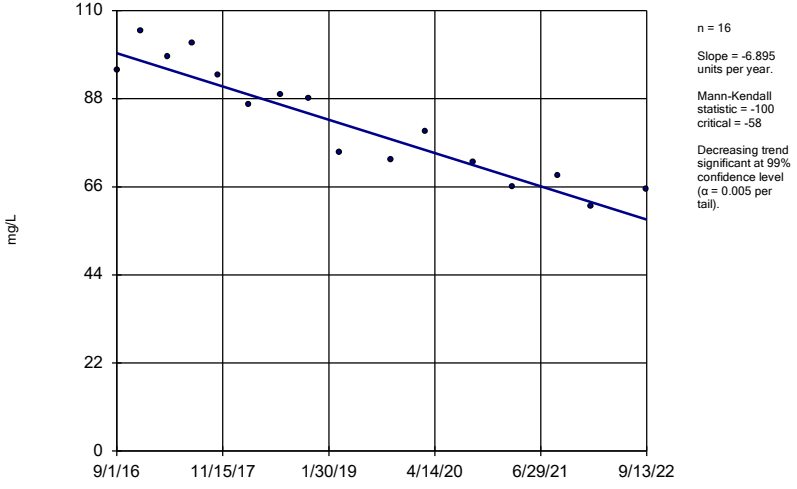
Constituent: Calcium, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-48



n = 16

Slope = -6.895 units per year.

Mann-Kendall statistic = -100 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

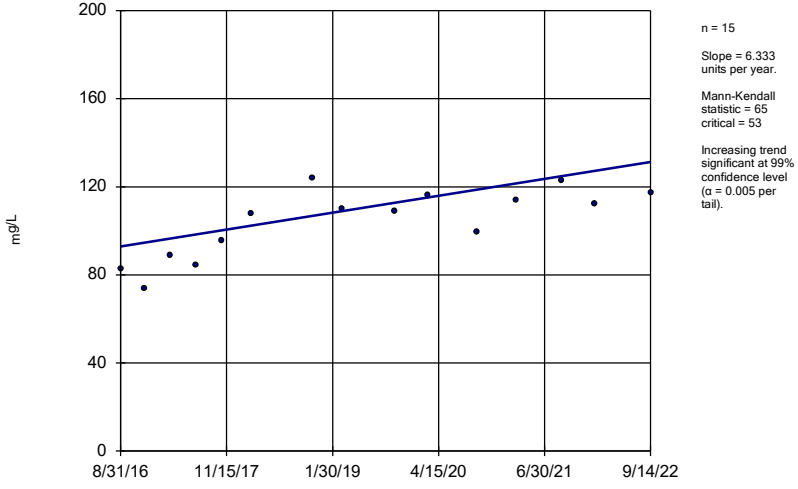
Constituent: Calcium, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-5



n = 15

Slope = 6.333 units per year.

Mann-Kendall statistic = 65 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

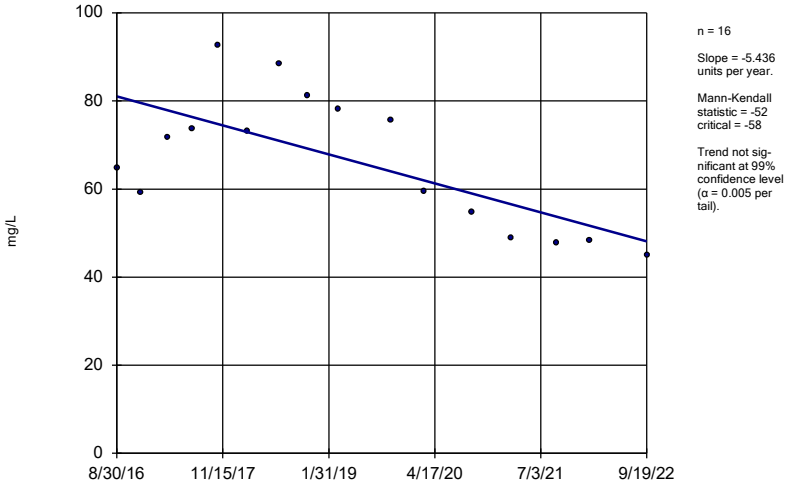
Constituent: Calcium, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-9



n = 16

Slope = -5.436 units per year.

Mann-Kendall statistic = -52 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

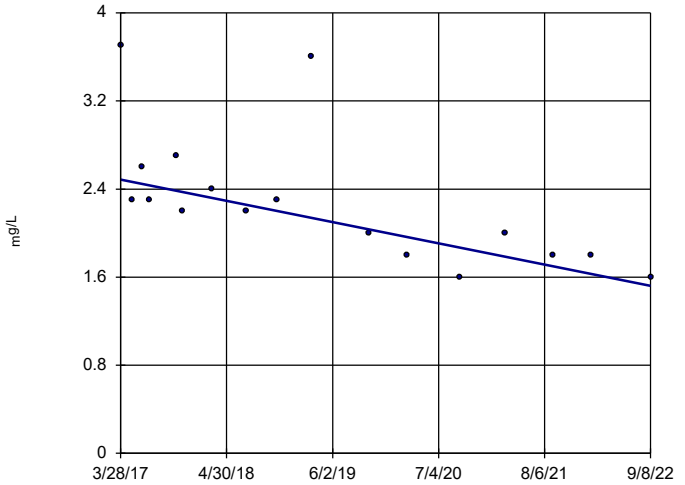
Constituent: Calcium, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWA-53 (bg)



n = 17

Slope = -0.1771 units per year.

Mann-Kendall statistic = -85 critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

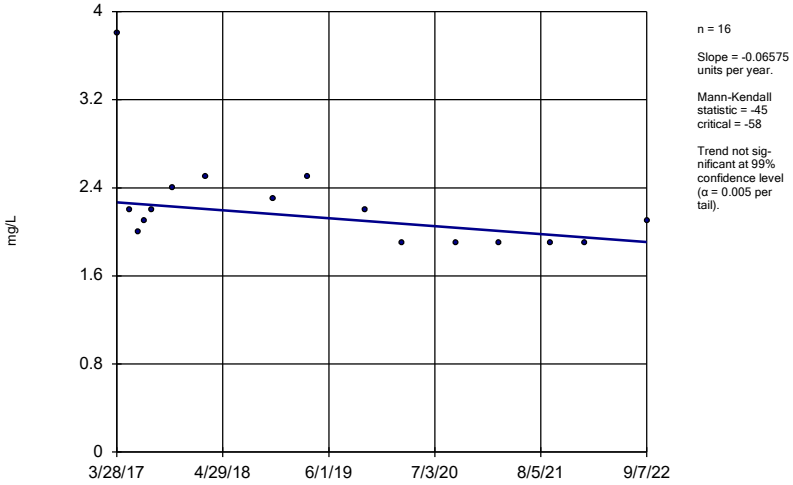
Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWA-70A (bg)



n = 16

Slope = -0.06575 units per year.

Mann-Kendall statistic = -45 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

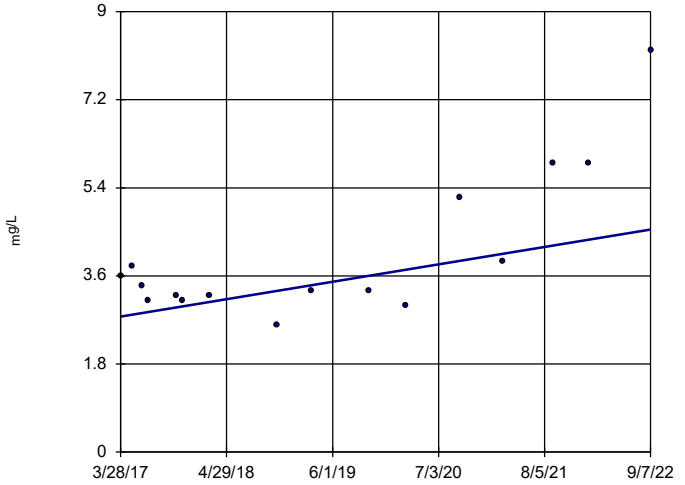
Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWA-71 (bg)



n = 16

Slope = 0.3259 units per year.

Mann-Kendall statistic = 40 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

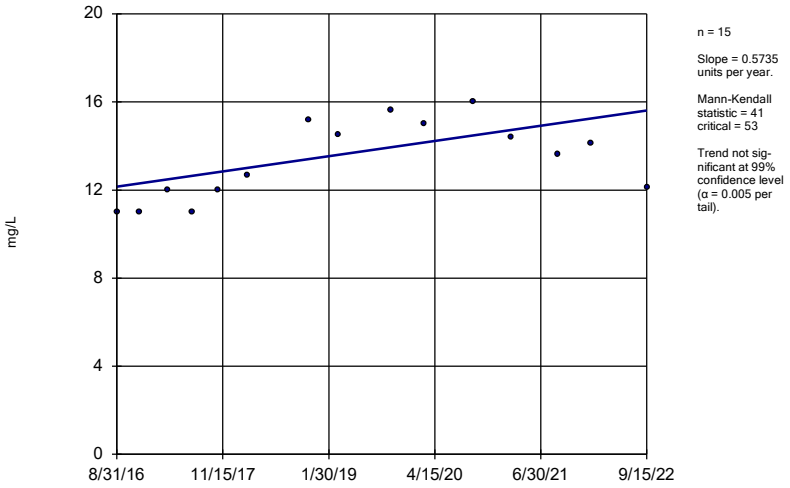
Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-11



n = 15

Slope = 0.5735 units per year.

Mann-Kendall statistic = 41 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

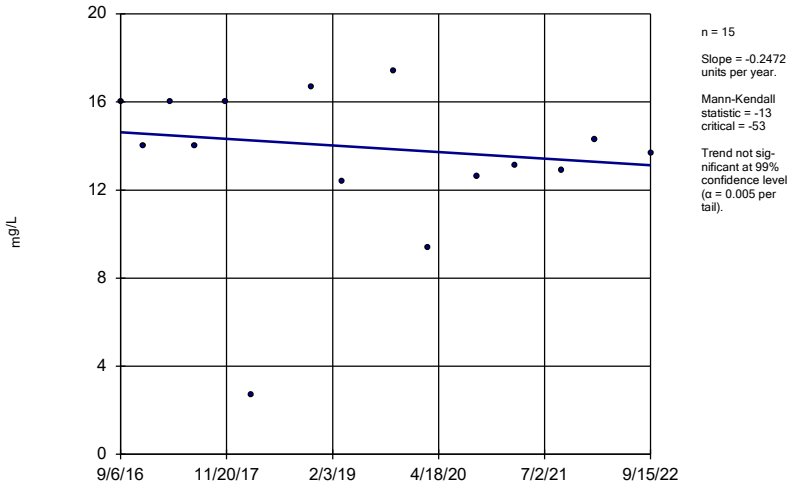
Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-13



n = 15

Slope = -0.2472 units per year.

Mann-Kendall statistic = -13 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

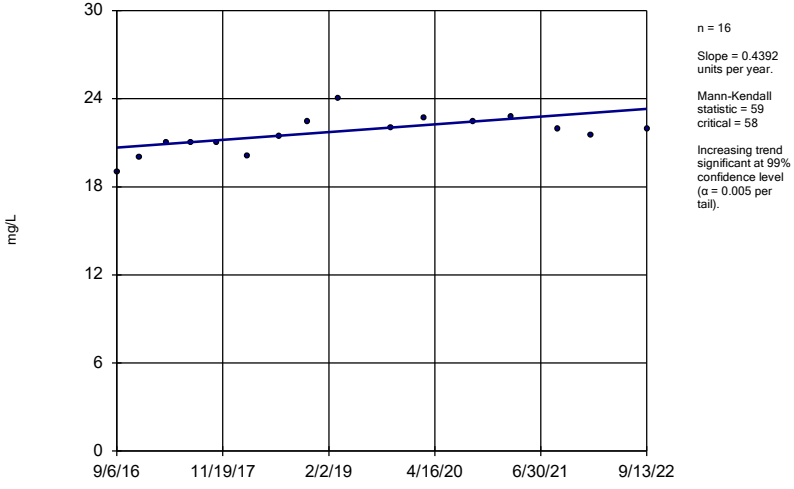
Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-15



n = 16

Slope = 0.4392 units per year.

Mann-Kendall statistic = 59 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

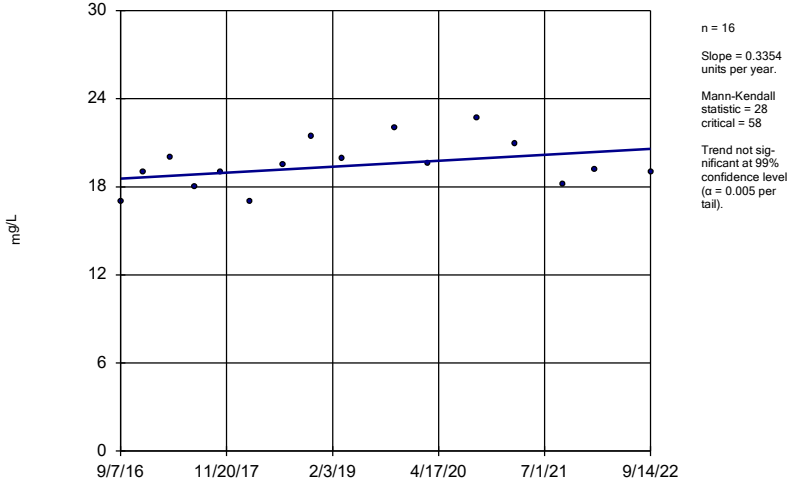
Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-17



n = 16

Slope = 0.3354 units per year.

Mann-Kendall statistic = 28 critical = 58

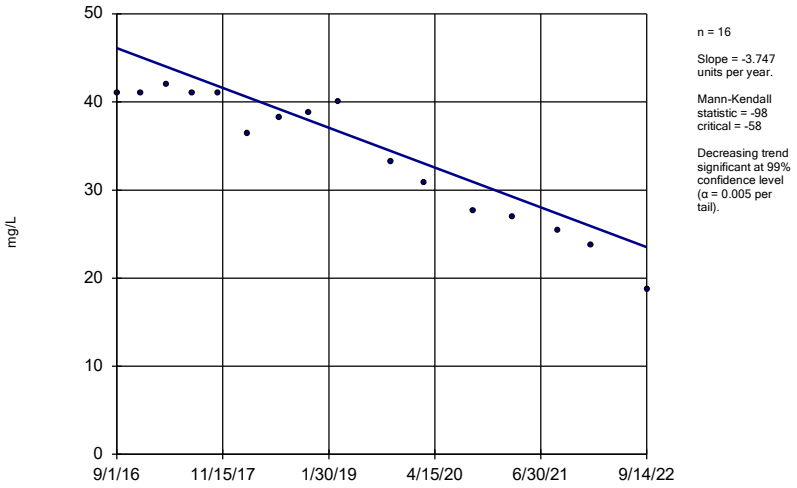
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-19



n = 16

Slope = -3.747 units per year.

Mann-Kendall statistic = -98
critical = -58

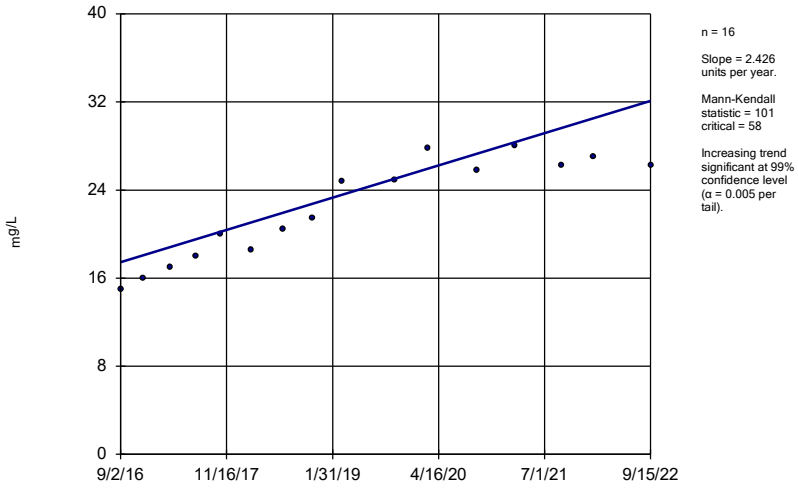
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-20



n = 16

Slope = 2.426 units per year.

Mann-Kendall statistic = 101
critical = 58

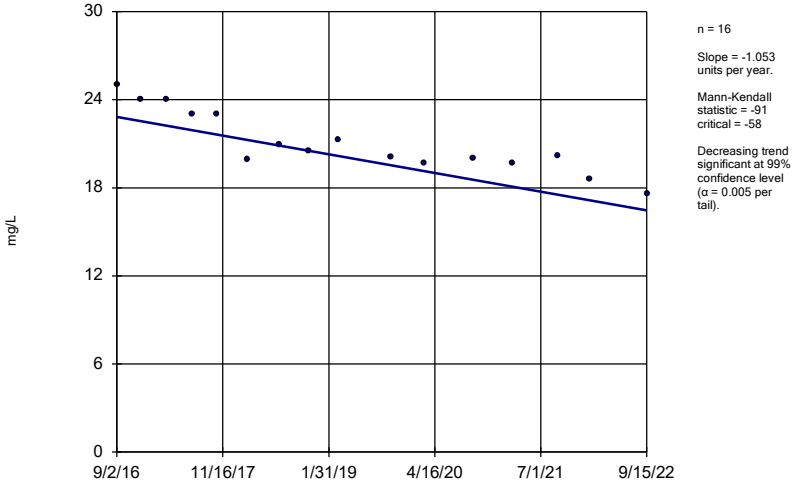
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-21



n = 16

Slope = -1.053 units per year.

Mann-Kendall statistic = -91
critical = -58

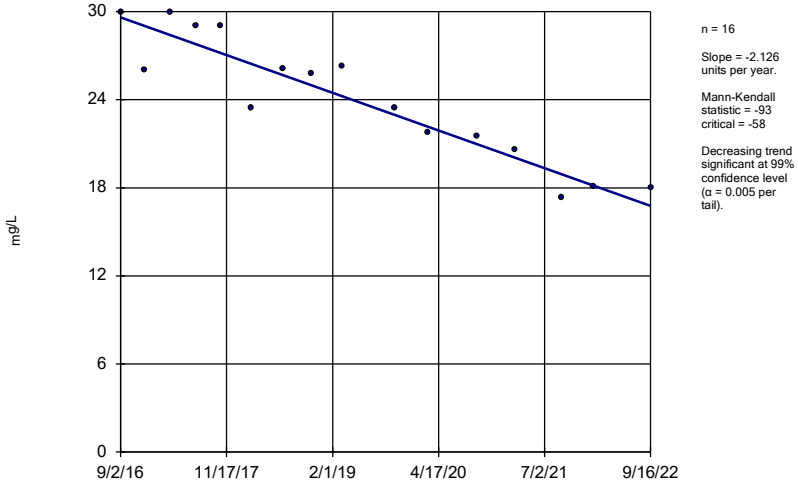
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-22



n = 16

Slope = -2.126 units per year.

Mann-Kendall statistic = -93
critical = -58

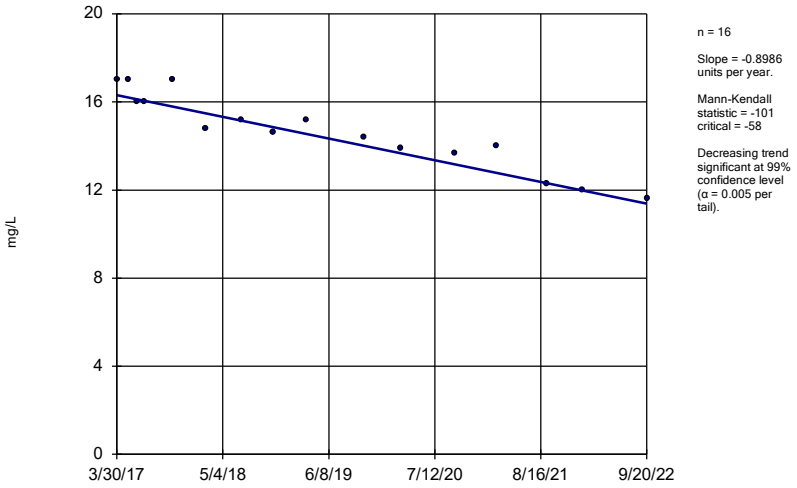
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-23



n = 16

Slope = -0.8986 units per year.

Mann-Kendall statistic = -101
critical = -58

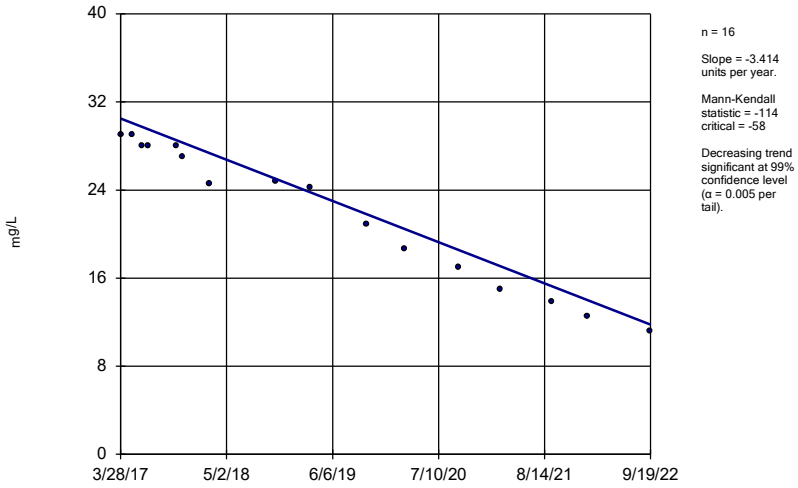
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-4



n = 16

Slope = -3.414 units per year.

Mann-Kendall statistic = -114
critical = -58

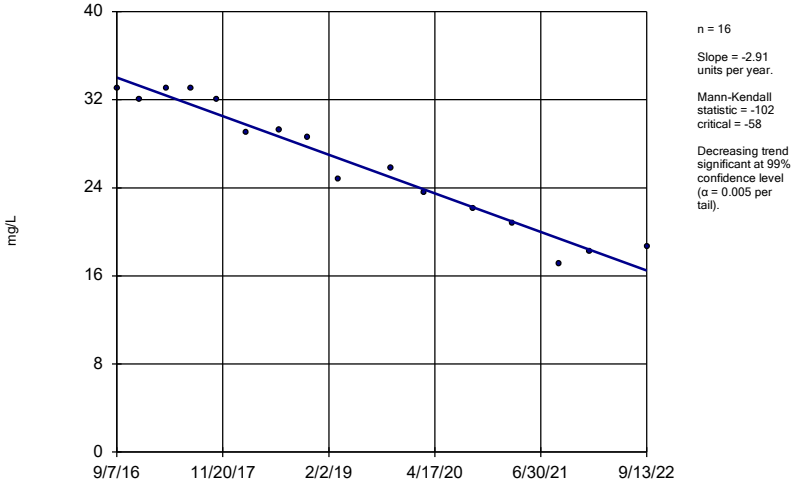
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-42



n = 16

Slope = -2.91 units per year.

Mann-Kendall statistic = -102
critical = -58

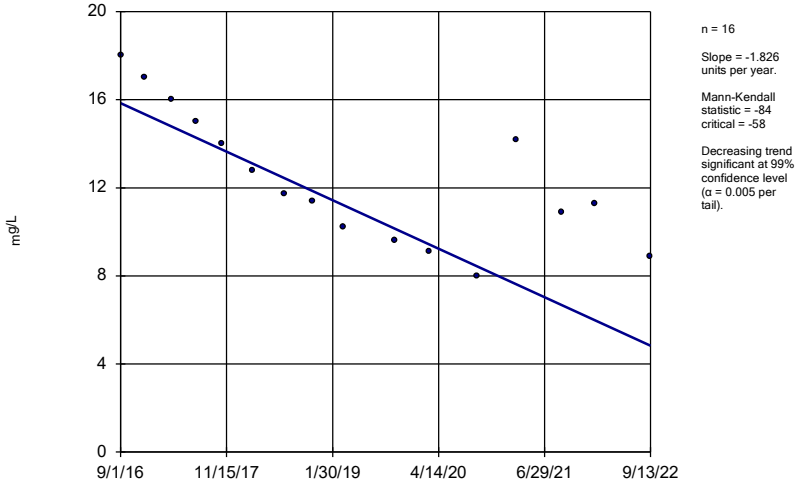
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-48



n = 16

Slope = -1.826 units per year.

Mann-Kendall statistic = -84
critical = -58

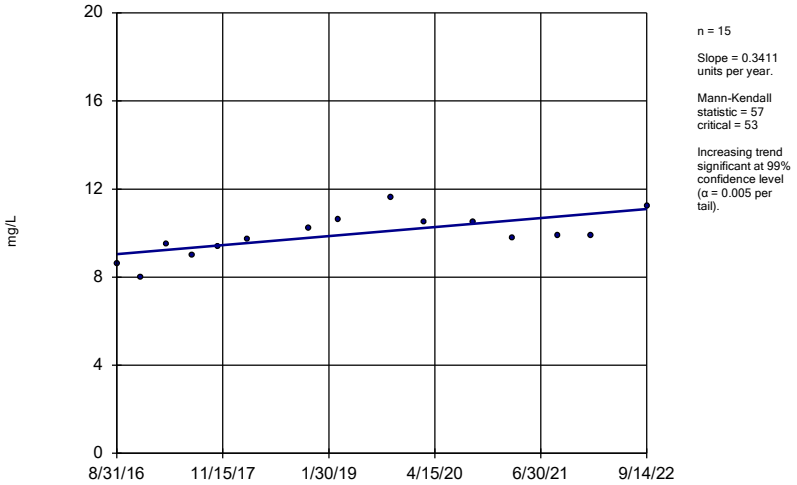
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-5



n = 15

Slope = 0.3411 units per year.

Mann-Kendall statistic = 57
critical = 53

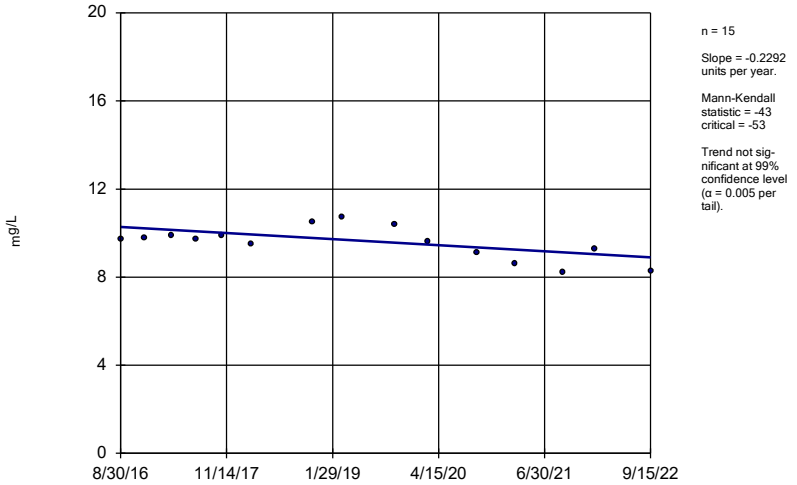
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-8



n = 15

Slope = -0.2292 units per year.

Mann-Kendall statistic = -43
critical = -53

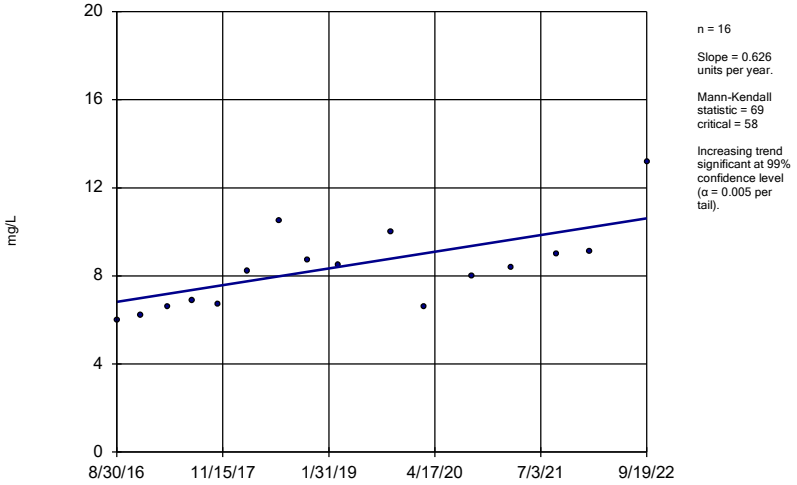
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-9



n = 16

Slope = 0.626 units per year.

Mann-Kendall statistic = 69
critical = 58

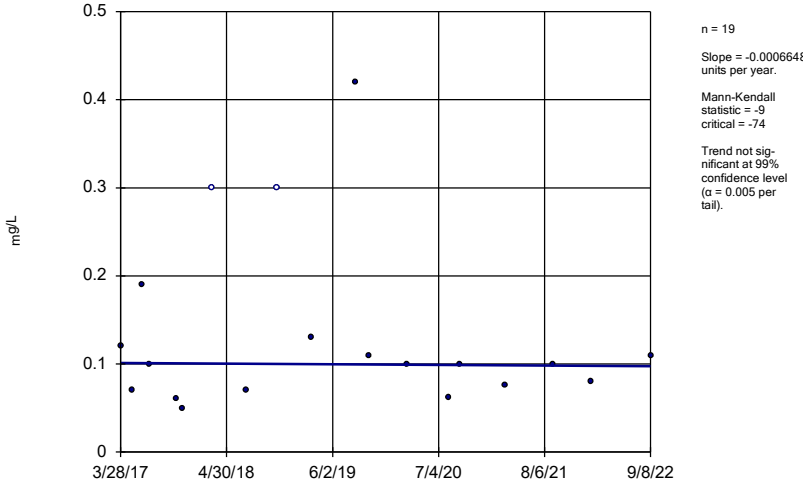
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-53 (bg)



n = 19

Slope = -0.0006648 units per year.

Mann-Kendall statistic = -9
critical = -74

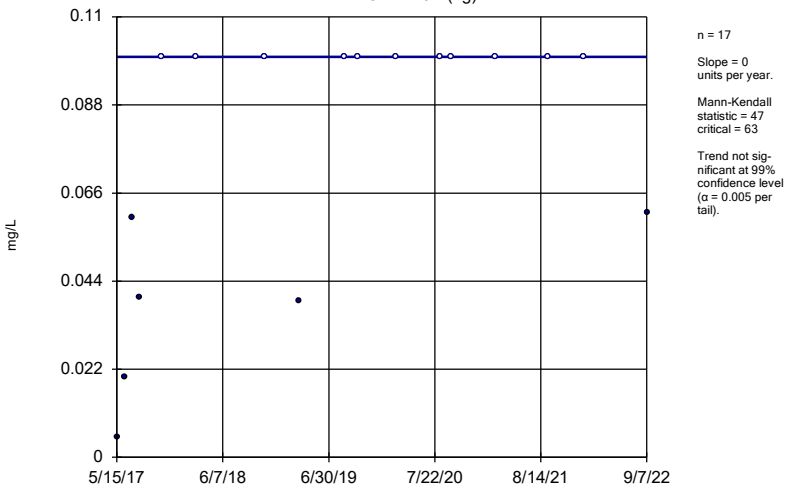
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 47
critical = 63

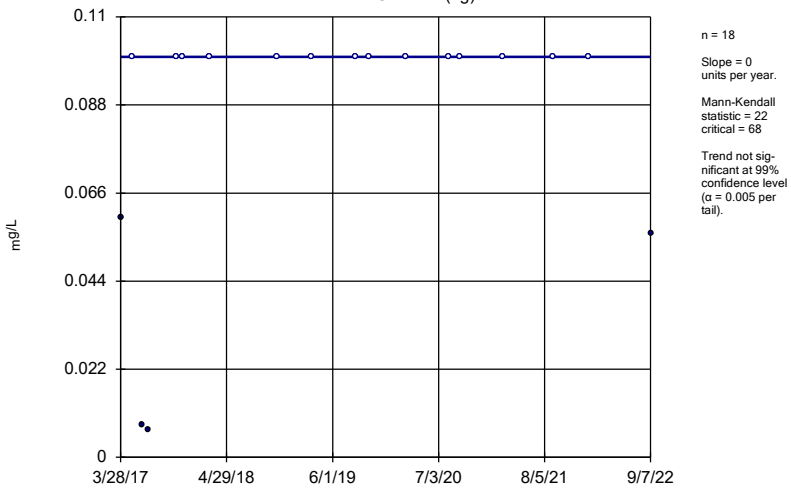
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 22
critical = 68

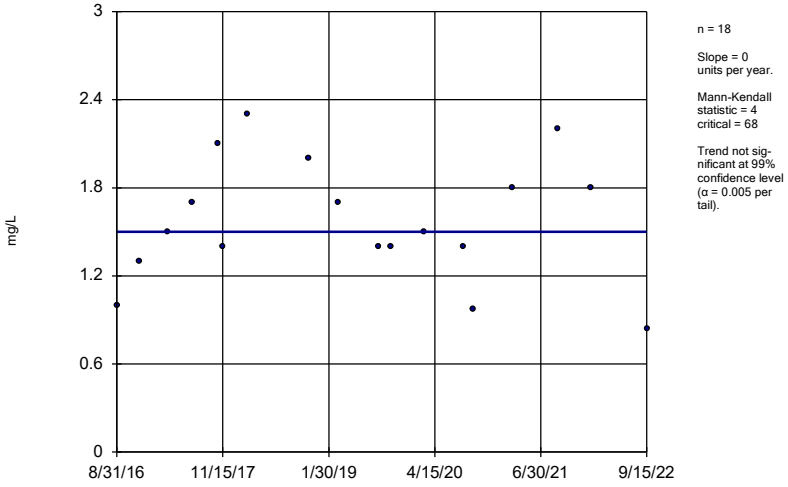
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-10



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 4
critical = 68

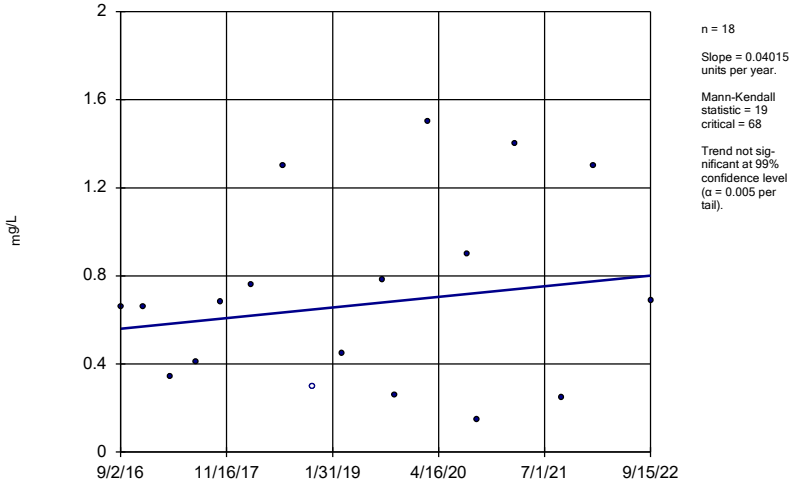
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWC-20



n = 18

Slope = 0.04015 units per year.

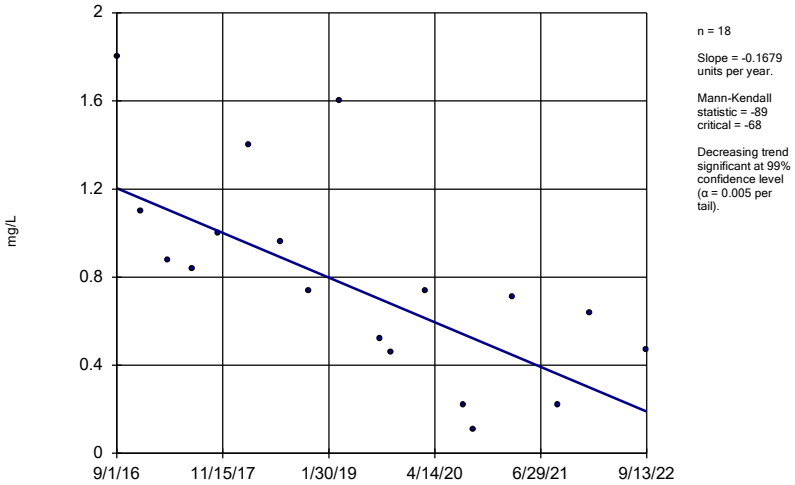
Mann-Kendall statistic = 19
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-47



n = 18

Slope = -0.1679 units per year.

Mann-Kendall statistic = -89
critical = -68

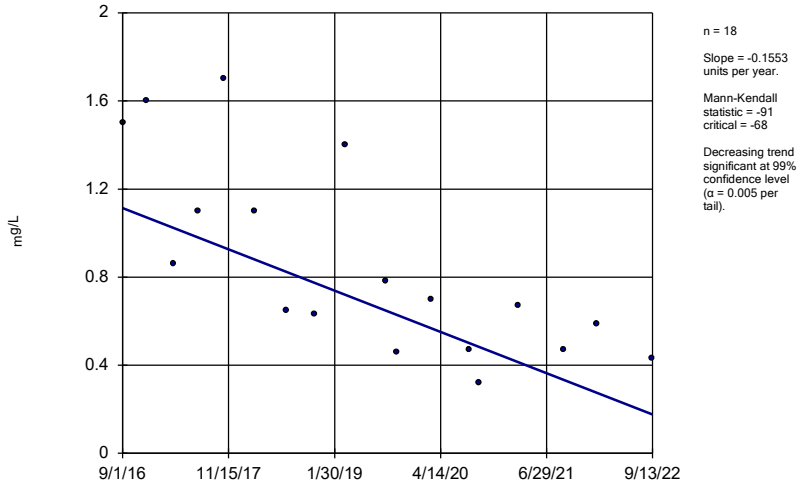
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-48



n = 18

Slope = -0.1553 units per year.

Mann-Kendall statistic = -91
critical = -68

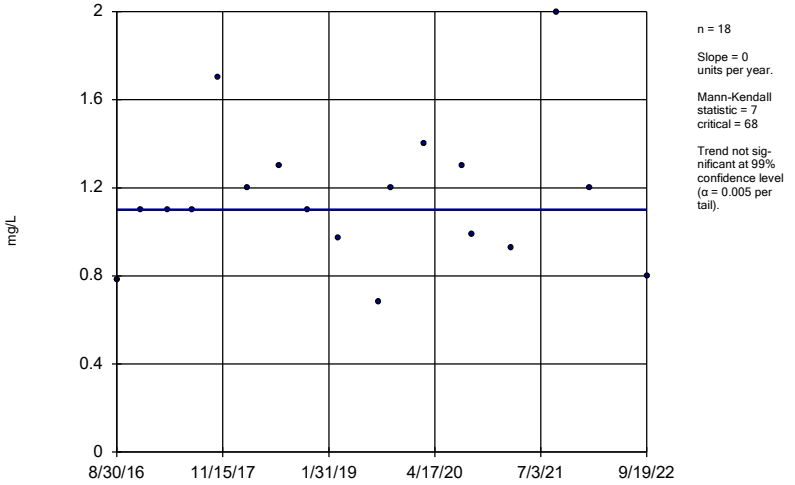
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-9



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 7
critical = 68

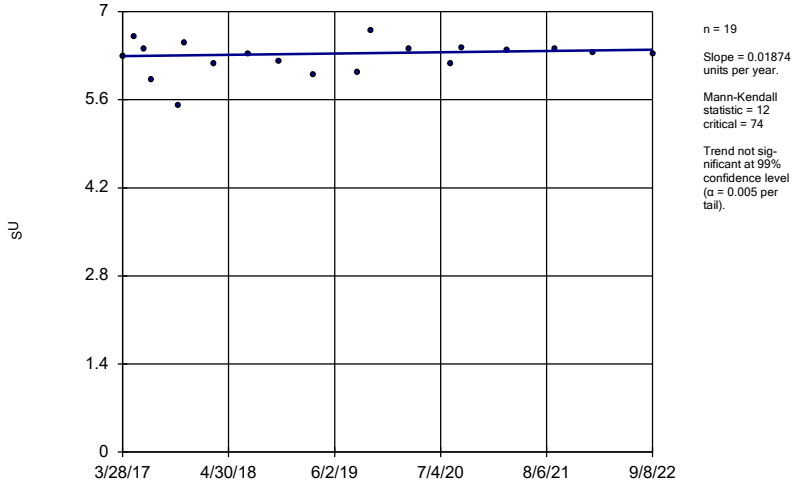
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWA-53 (bg)



n = 19

Slope = 0.01874 units per year.

Mann-Kendall statistic = 12
critical = 74

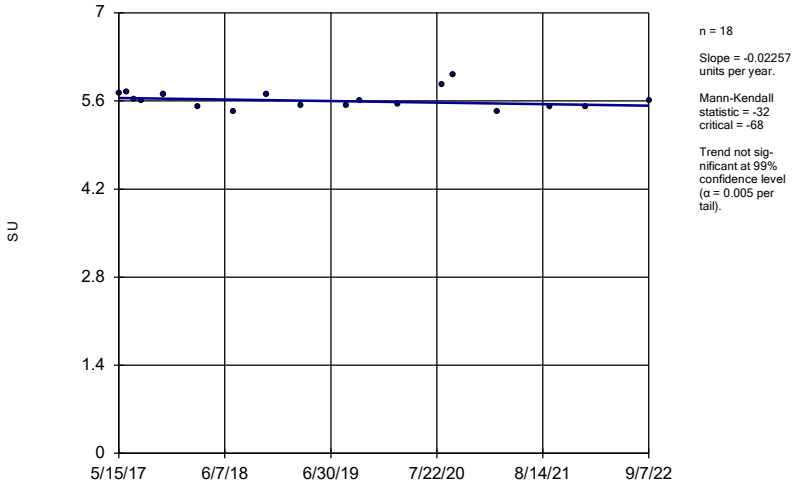
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWA-70A (bg)



n = 18

Slope = -0.02257 units per year.

Mann-Kendall statistic = -32 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

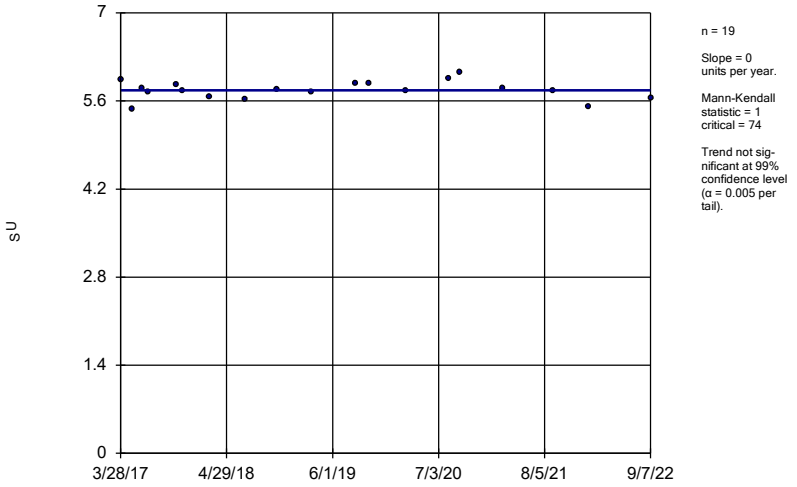
Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWA-71 (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 1 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

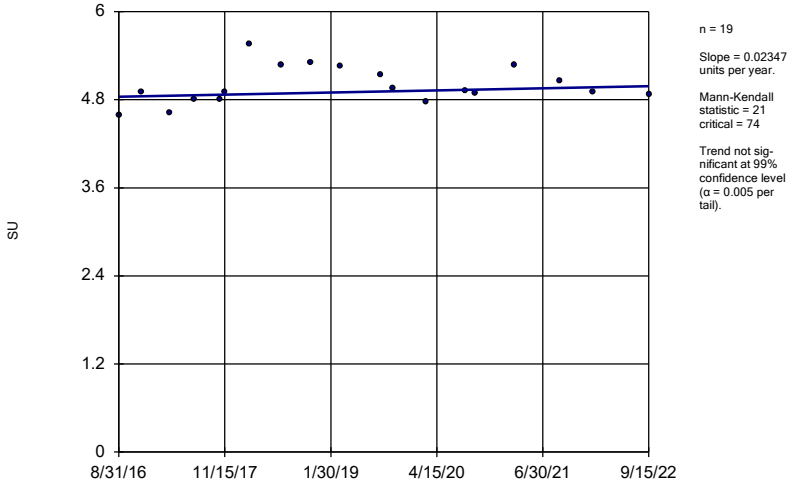
Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-10



n = 19

Slope = 0.02347 units per year.

Mann-Kendall statistic = 21 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

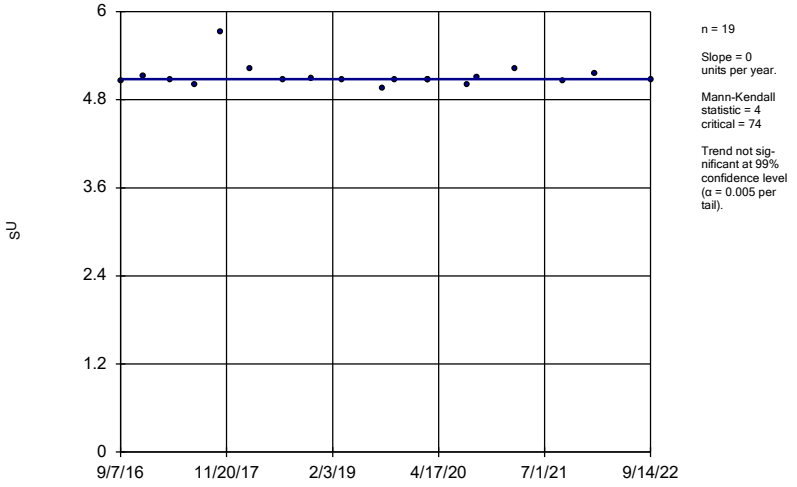
Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-17



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 4 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

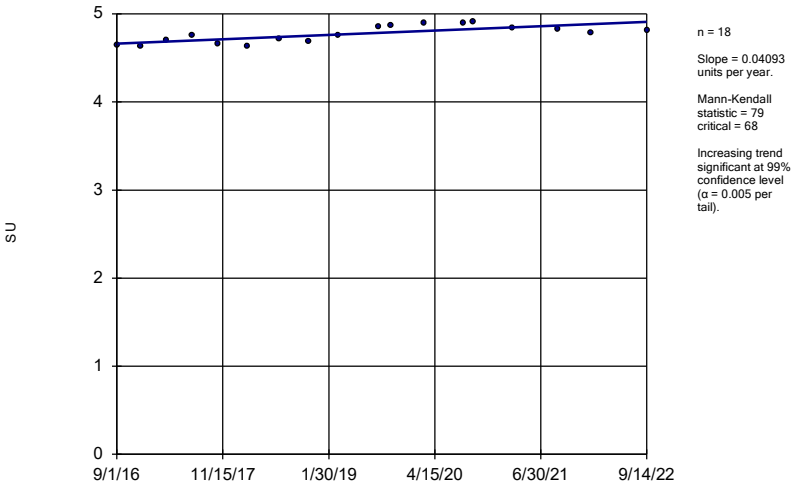
Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-19



n = 18

Slope = 0.04093 units per year.

Mann-Kendall statistic = 79
critical = 68

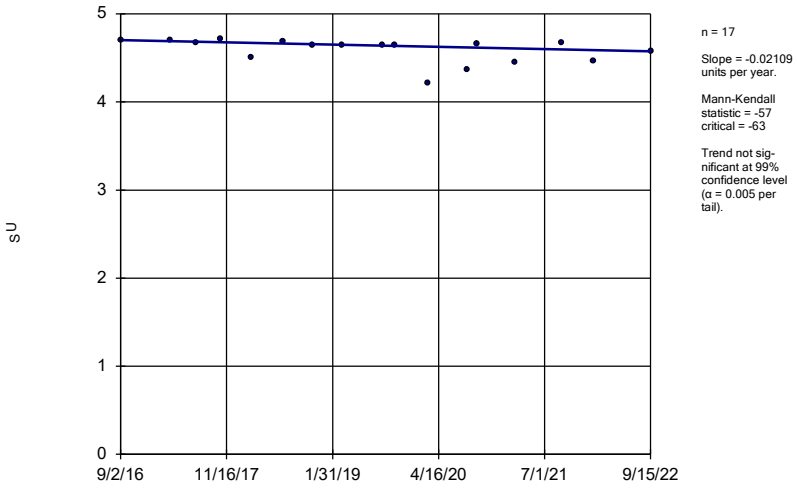
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-20



n = 17

Slope = -0.02109 units per year.

Mann-Kendall statistic = -57
critical = -63

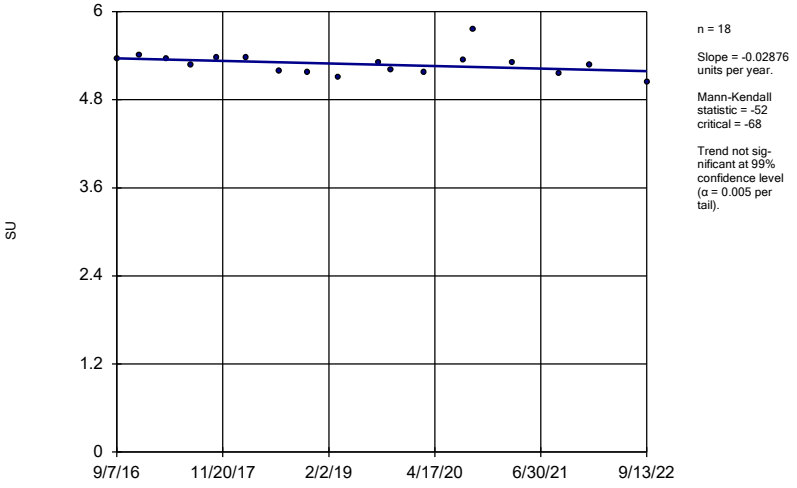
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-42



n = 18

Slope = -0.02876 units per year.

Mann-Kendall statistic = -52
critical = -68

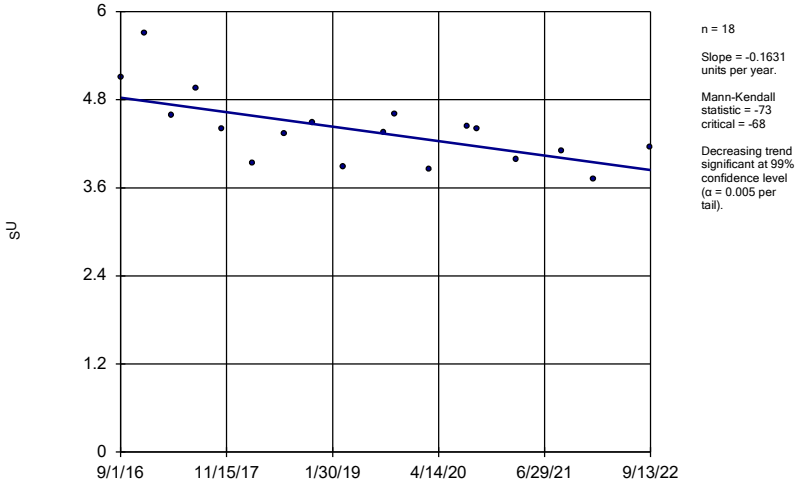
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-47



n = 18

Slope = -0.1631 units per year.

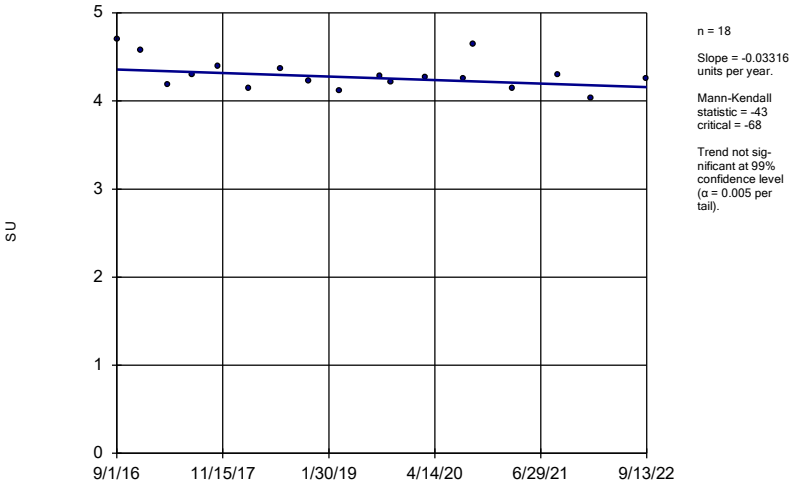
Mann-Kendall statistic = -73
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-48



n = 18

Slope = -0.03316 units per year.

Mann-Kendall statistic = -43
critical = -68

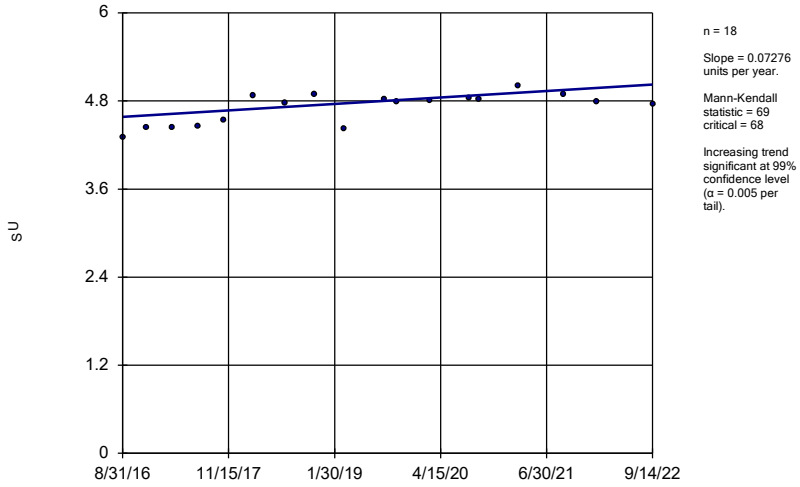
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-5



n = 18

Slope = 0.07276 units per year.

Mann-Kendall statistic = 69
critical = 68

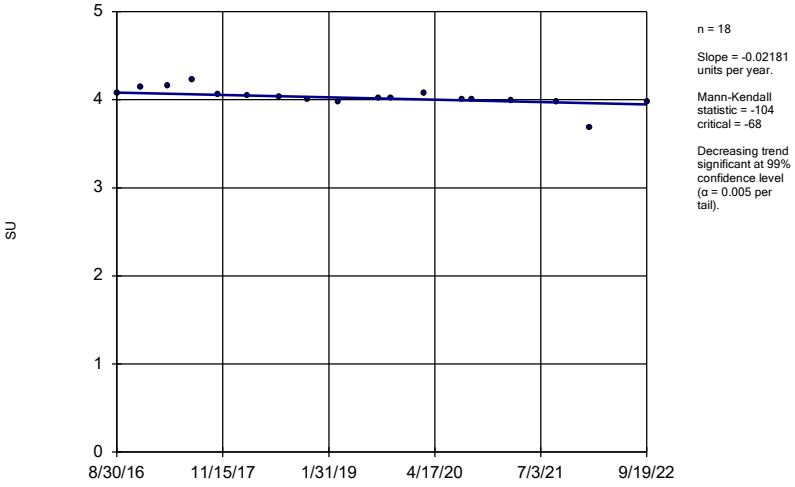
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-9



n = 18

Slope = -0.02181 units per year.

Mann-Kendall statistic = -104
critical = -68

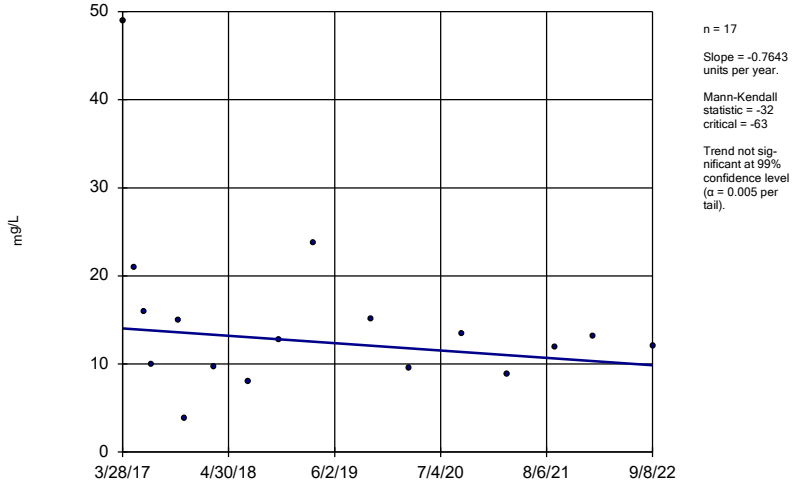
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWA-53 (bg)



n = 17

Slope = -0.7643 units per year.

Mann-Kendall statistic = -32
critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

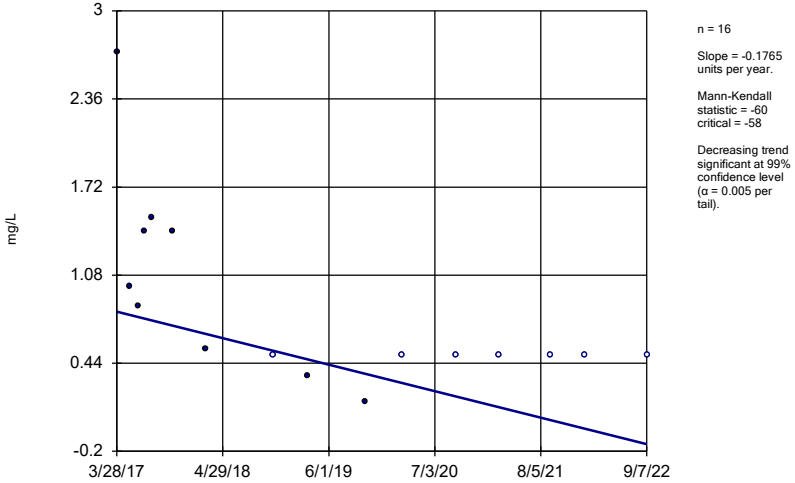
Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 16

Slope = -0.1765 units per year.

Mann-Kendall statistic = -60 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

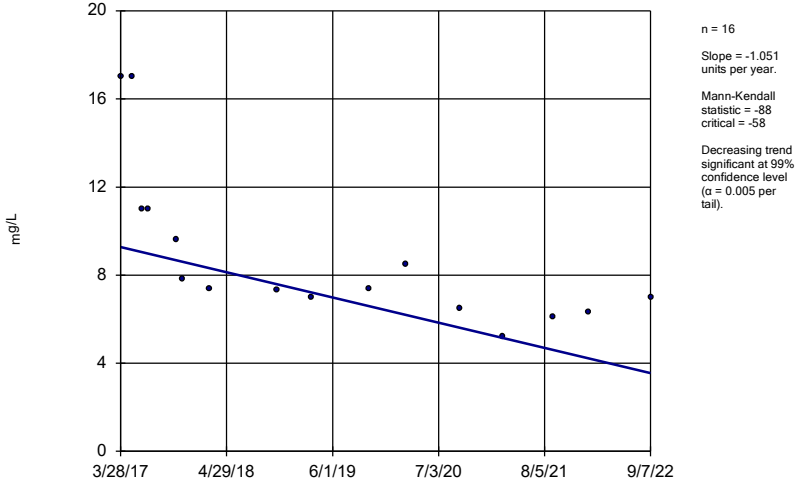
Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWA-71 (bg)



n = 16

Slope = -1.051 units per year.

Mann-Kendall statistic = -88 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

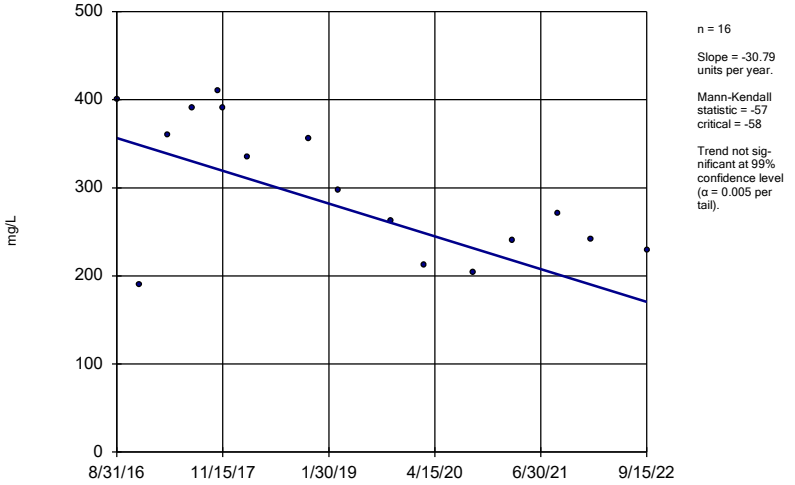
Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-10



n = 16

Slope = -30.79 units per year.

Mann-Kendall statistic = -57 critical = -58

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

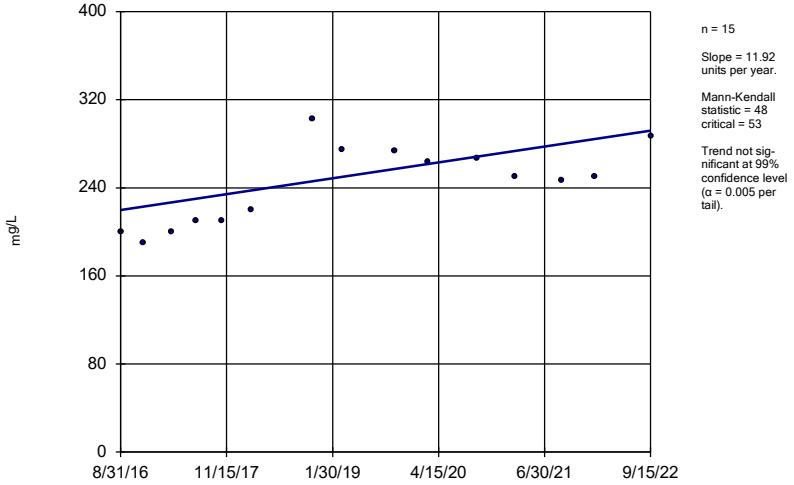
Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-11



n = 15

Slope = 11.92 units per year.

Mann-Kendall statistic = 48 critical = 53

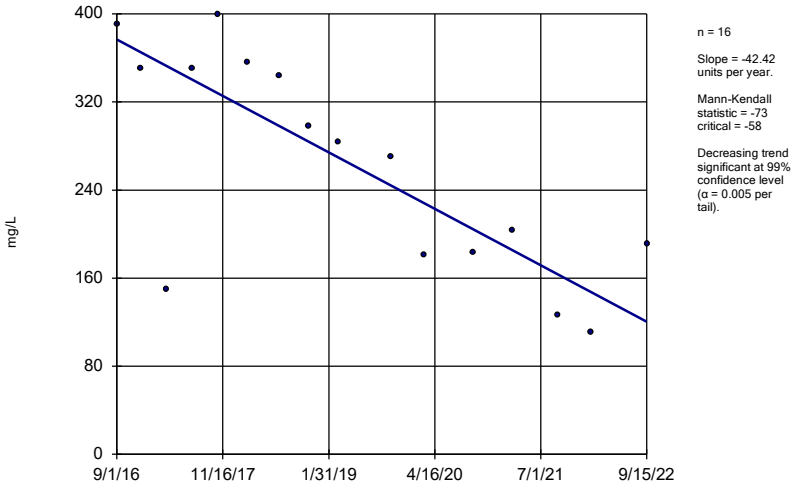
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-12



n = 16

Slope = -42.42 units per year.

Mann-Kendall statistic = -73 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

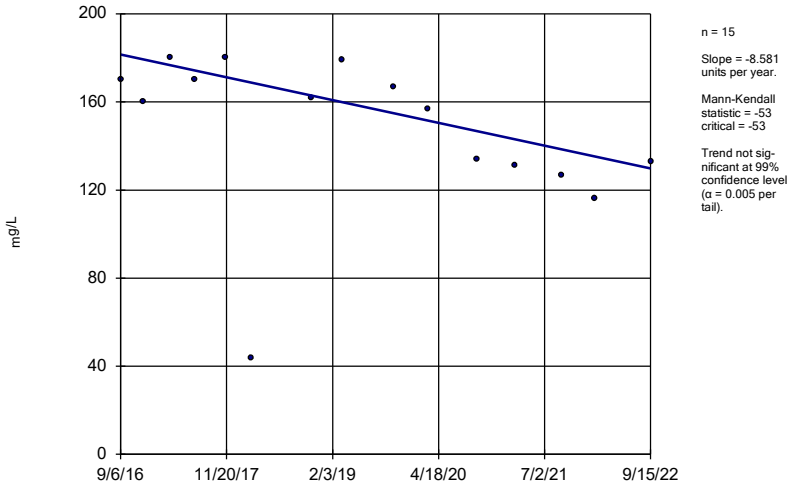
Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-13



n = 15

Slope = -8.581 units per year.

Mann-Kendall statistic = -53 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

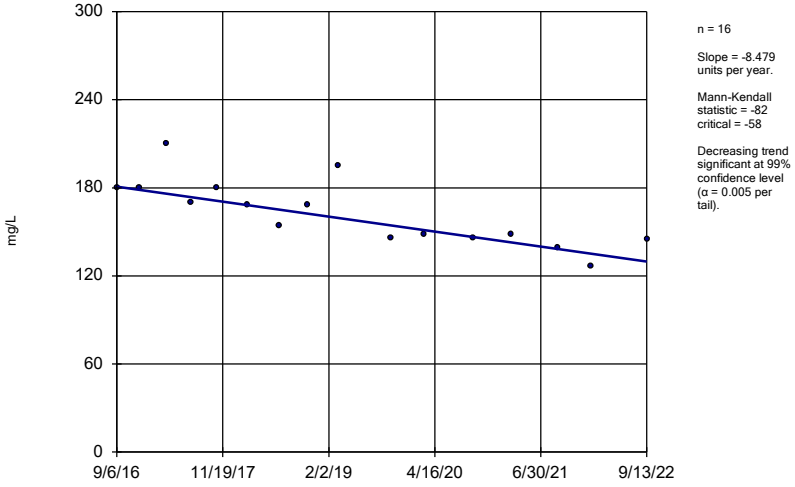
Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-15



n = 16

Slope = -8.479 units per year.

Mann-Kendall statistic = -82 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

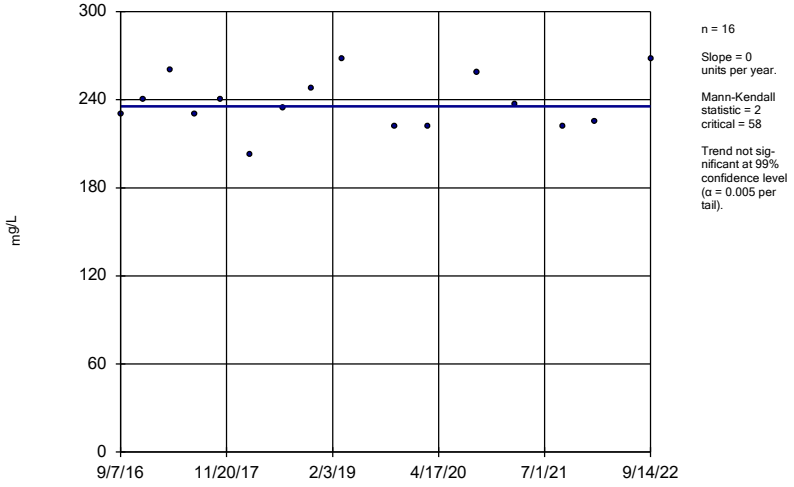
Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-17



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = 2 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

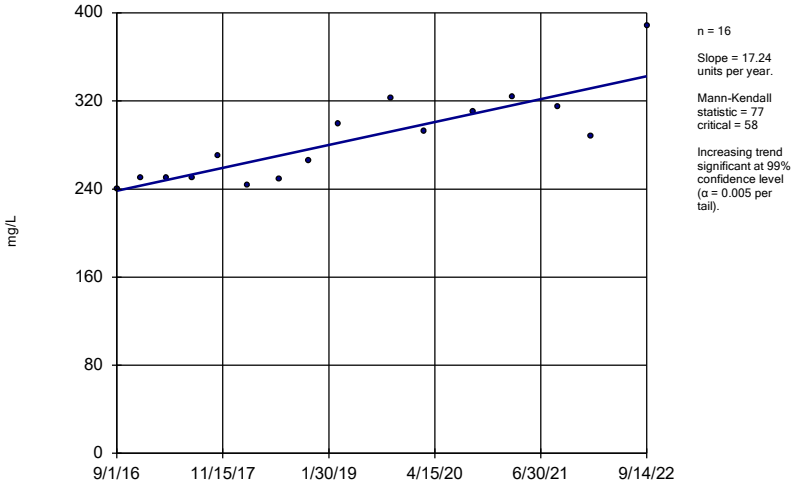
Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-19



n = 16

Slope = 17.24 units per year.

Mann-Kendall statistic = 77
critical = 58

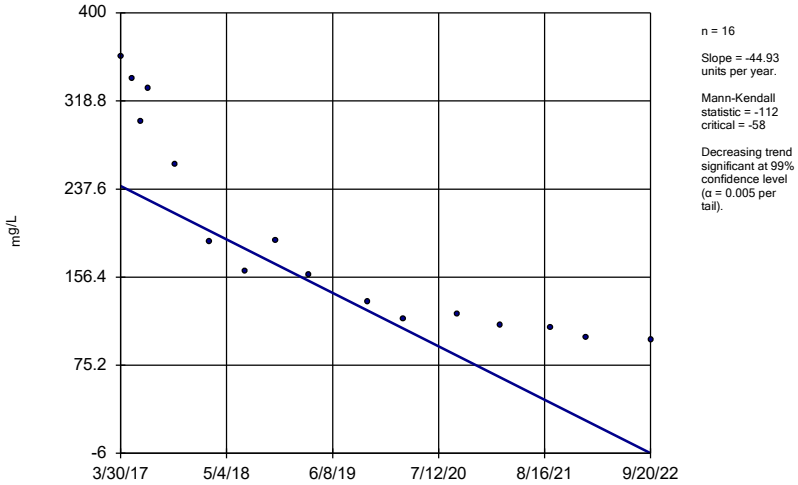
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-2



n = 16

Slope = -44.93 units per year.

Mann-Kendall statistic = -112
critical = -58

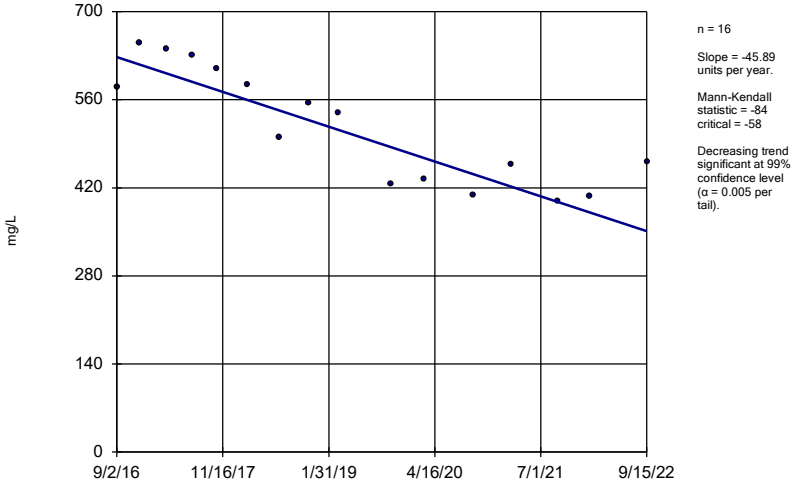
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-20



n = 16

Slope = -45.89 units per year.

Mann-Kendall statistic = -84
critical = -58

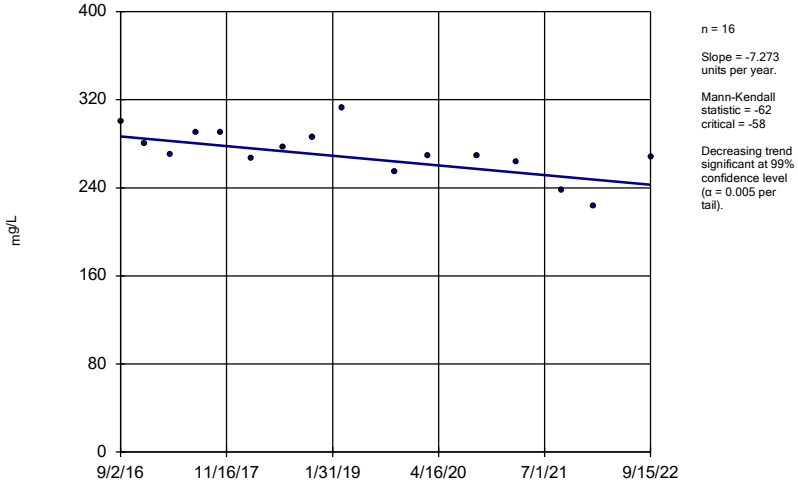
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-21



n = 16

Slope = -7.273 units per year.

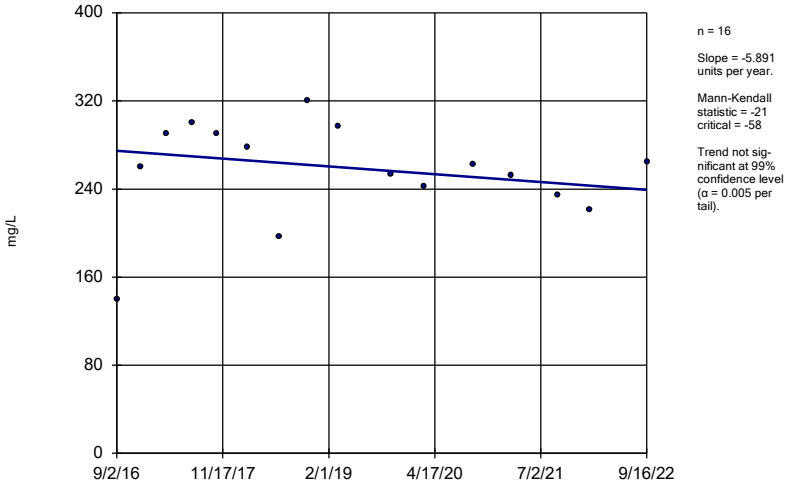
Mann-Kendall statistic = -62
critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-22



n = 16

Slope = -5.891 units per year.

Mann-Kendall statistic = -21
critical = -58

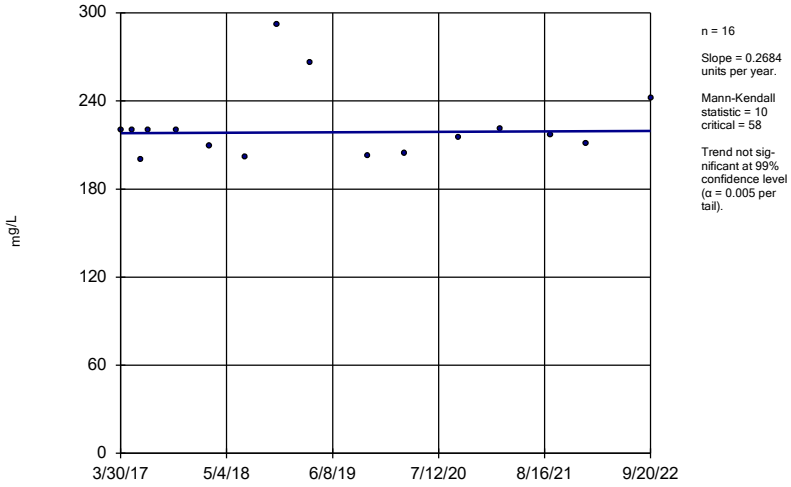
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-23



n = 16

Slope = 0.2684 units per year.

Mann-Kendall statistic = 10
critical = 58

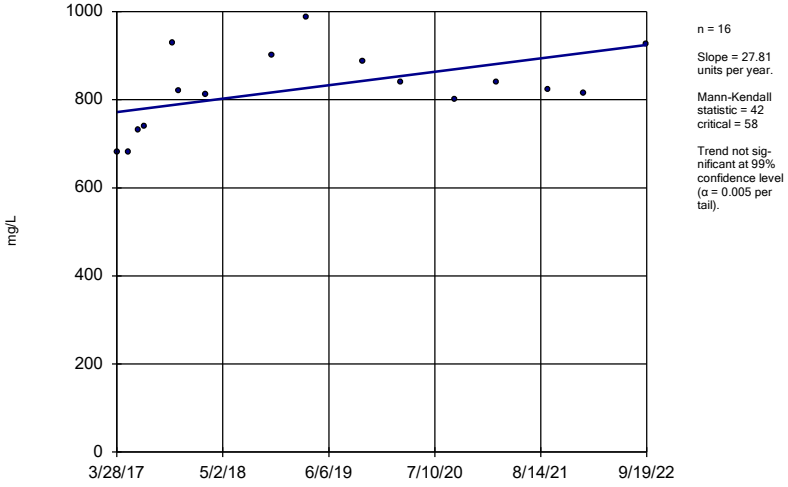
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-4



n = 16

Slope = 27.81 units per year.

Mann-Kendall statistic = 42
critical = 58

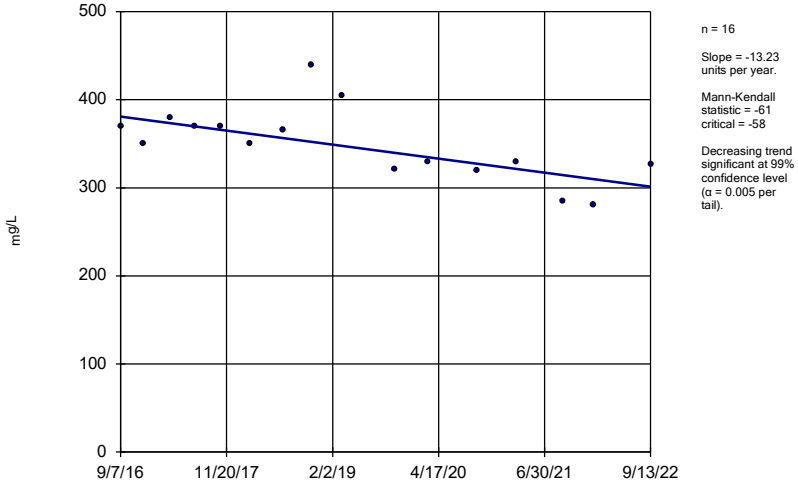
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-42



n = 16

Slope = -13.23 units per year.

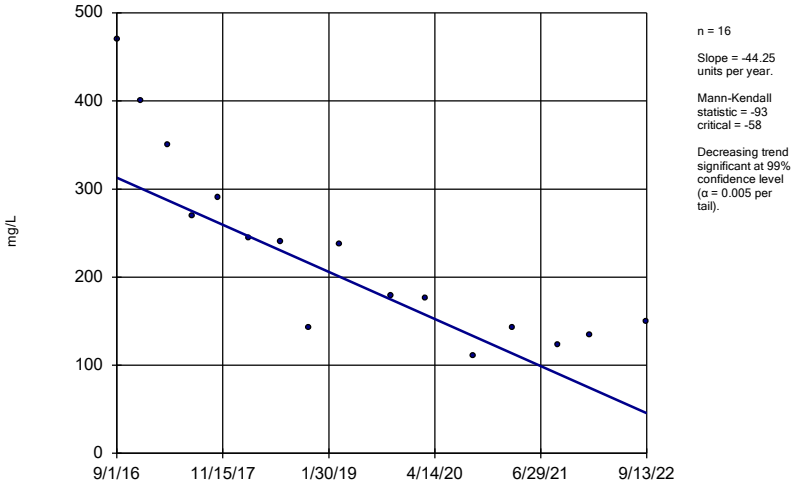
Mann-Kendall statistic = -61
critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-47



n = 16

Slope = -44.25 units per year.

Mann-Kendall statistic = -93 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

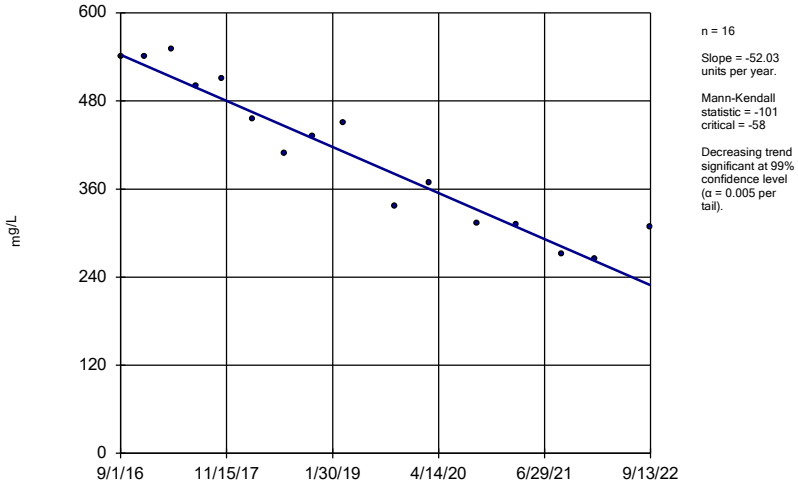
Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-48



n = 16

Slope = -52.03 units per year.

Mann-Kendall statistic = -101 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

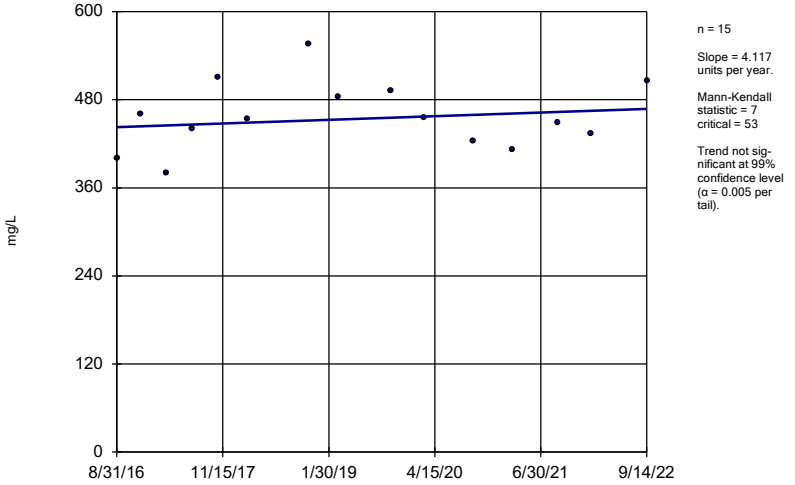
Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-5



n = 15

Slope = 4.117 units per year.

Mann-Kendall statistic = 7 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

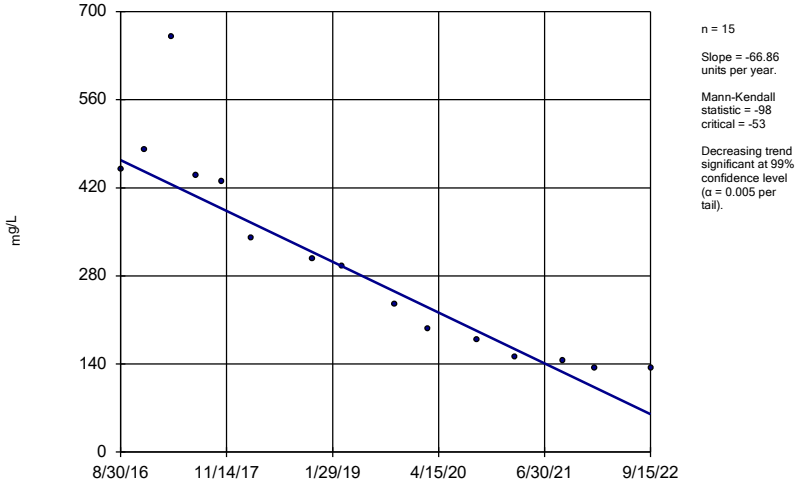
Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-8



n = 15

Slope = -66.86 units per year.

Mann-Kendall statistic = -98 critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

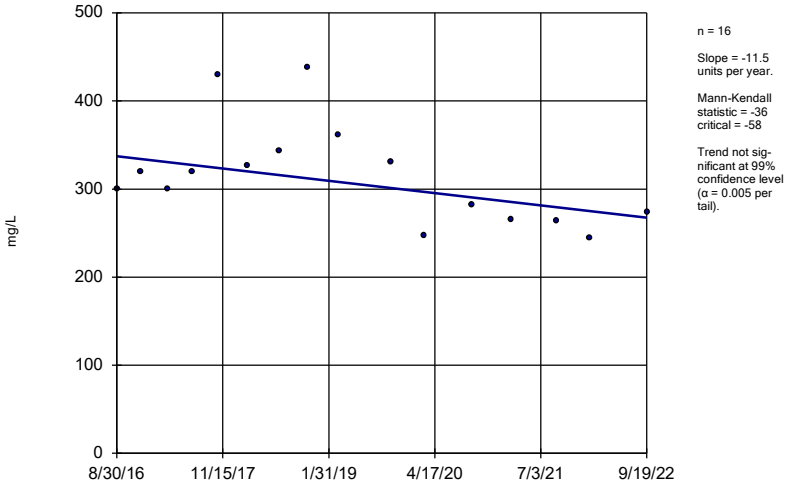
Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-9



n = 16

Slope = -11.5 units per year.

Mann-Kendall statistic = -36 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

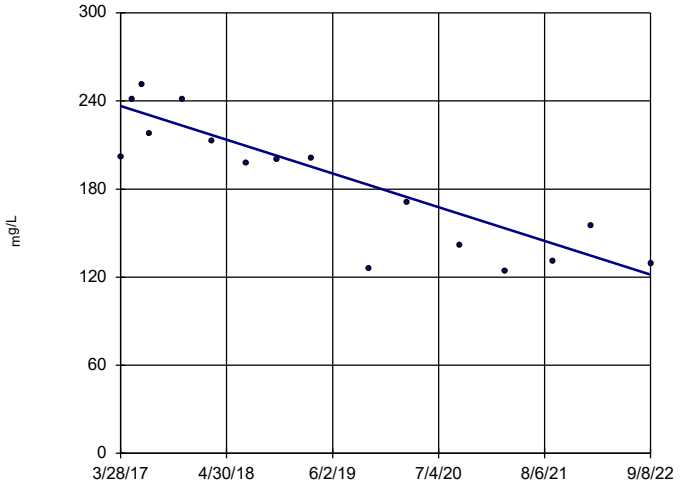
Constituent: Sulfate as SO4 Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Test

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWA-53 (bg)



n = 16

Slope = -21.09 units per year.

Mann-Kendall statistic = -79 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

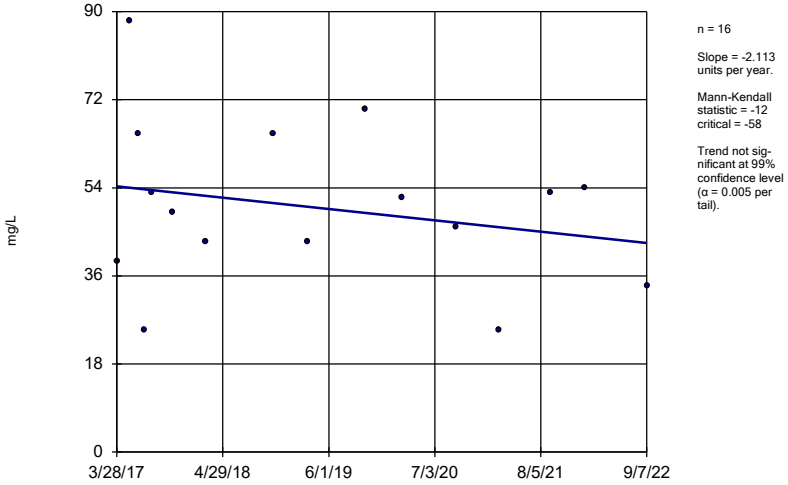
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Te

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWA-70A (bg)



n = 16

Slope = -2.113 units per year.

Mann-Kendall statistic = -12 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

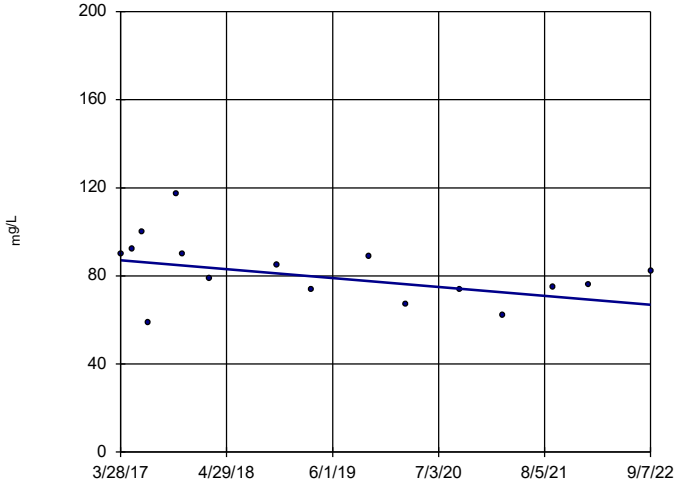
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Te

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWA-71 (bg)



n = 16

Slope = -3.712 units per year.

Mann-Kendall statistic = -40 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

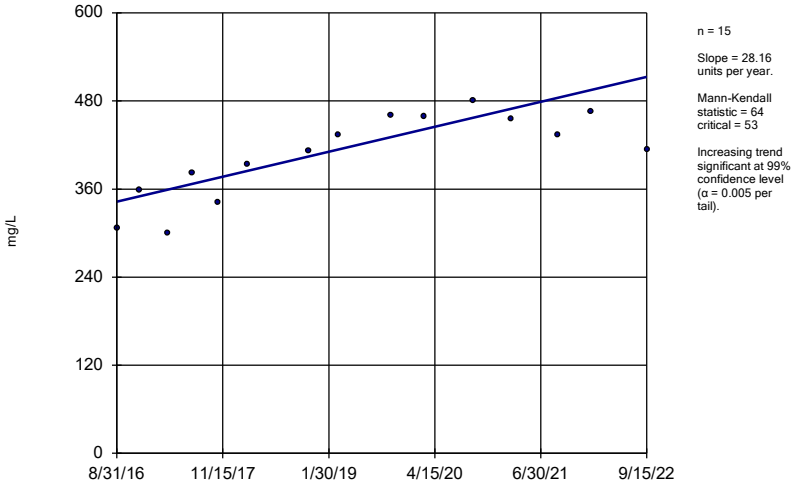
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Te

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-11



n = 15

Slope = 28.16 units per year.

Mann-Kendall statistic = 64 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

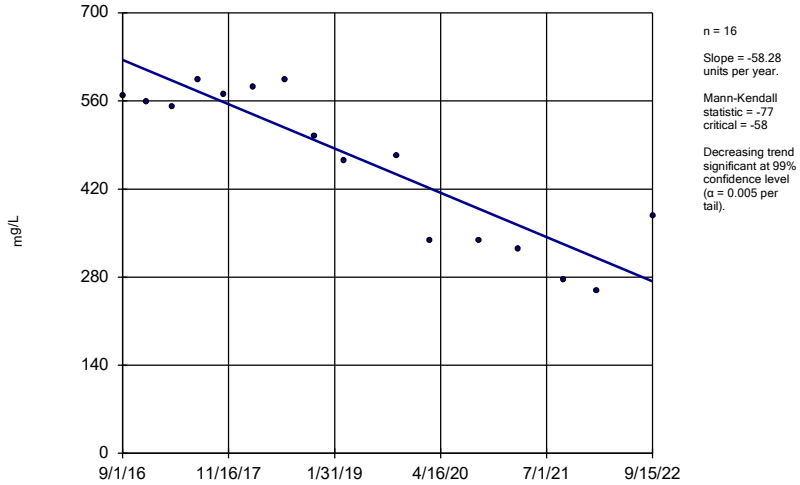
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Te

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-12



n = 16

Slope = -58.28 units per year.

Mann-Kendall statistic = -77 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

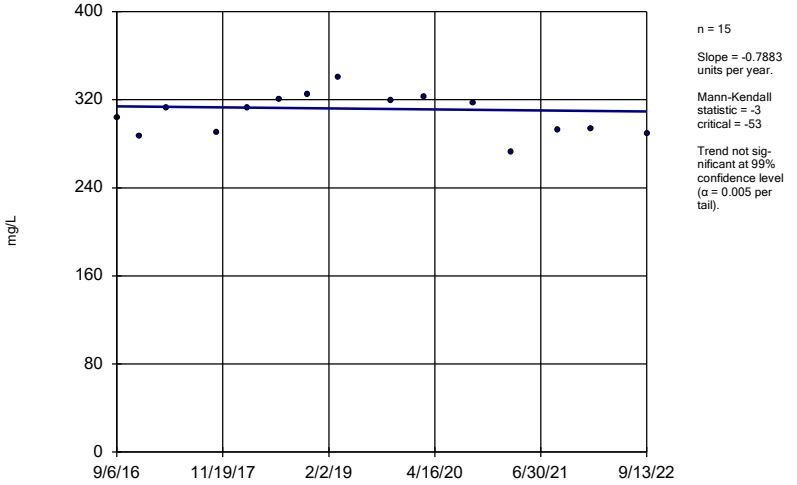
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Te

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-15



n = 15

Slope = -0.7883 units per year.

Mann-Kendall statistic = -3 critical = -53

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

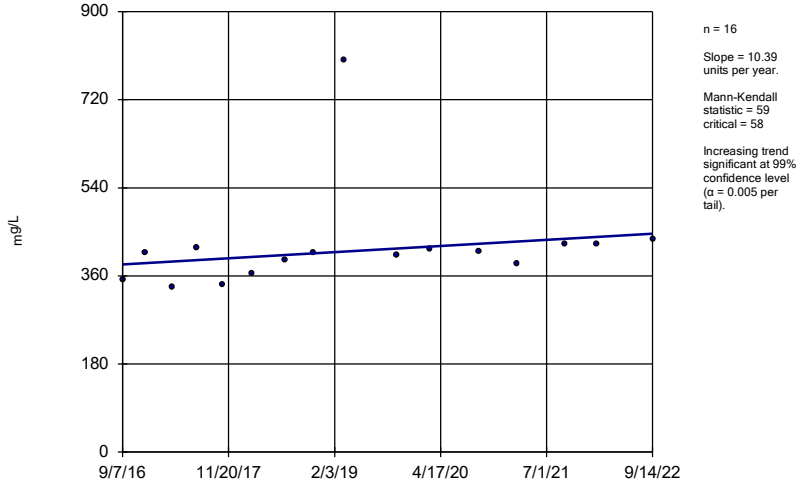
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:47 AM View: Appendix III - Trend Te

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-17



n = 16

Slope = 10.39 units per year.

Mann-Kendall statistic = 59 critical = 58

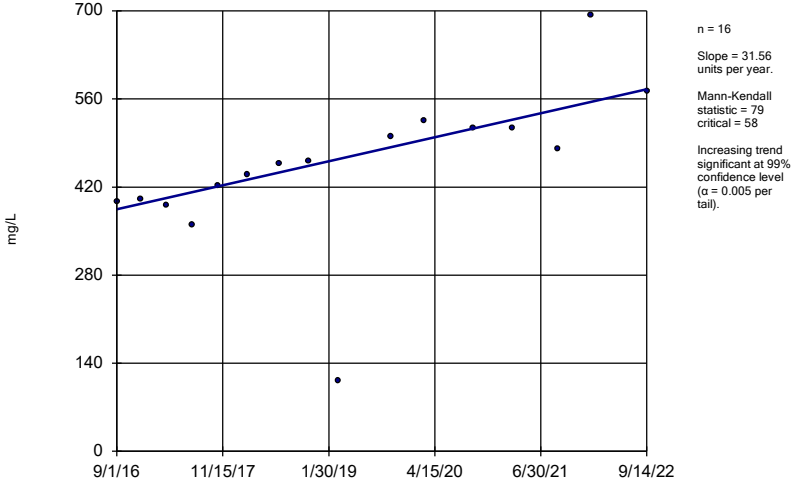
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:48 AM View: Appendix III - Trend Te

Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-19



n = 16

Slope = 31.56 units per year.

Mann-Kendall statistic = 79
critical = 58

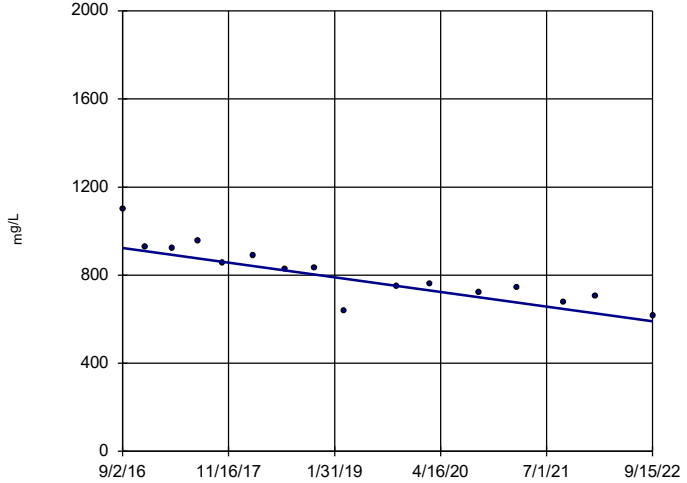
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:48 AM View: Appendix III - Trend Te
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-20



n = 16

Slope = -55.19 units per year.

Mann-Kendall statistic = -94
critical = -58

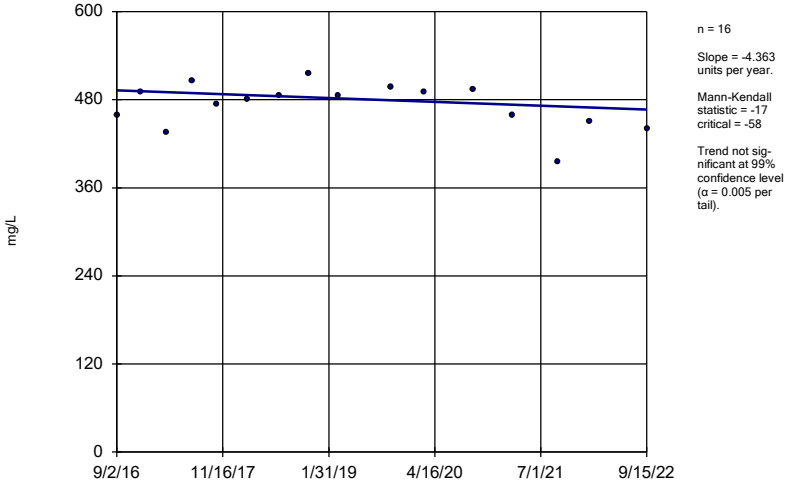
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:48 AM View: Appendix III - Trend Te
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-21



n = 16

Slope = -4.363 units per year.

Mann-Kendall statistic = -17
critical = -58

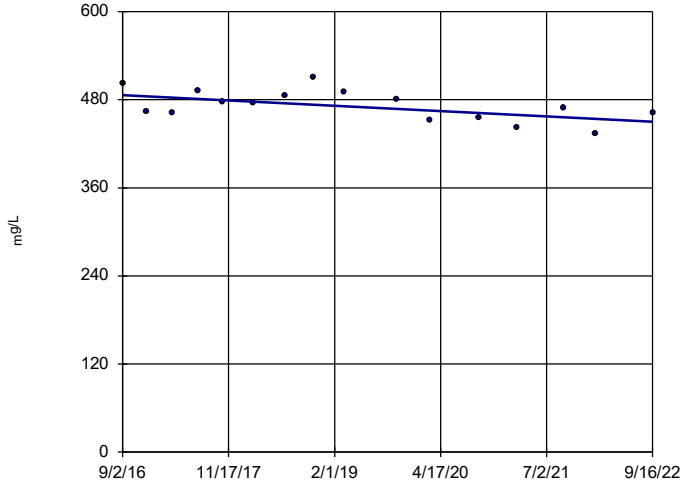
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:48 AM View: Appendix III - Trend Te
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-22



n = 16

Slope = -5.96 units per year.

Mann-Kendall statistic = -47
critical = -58

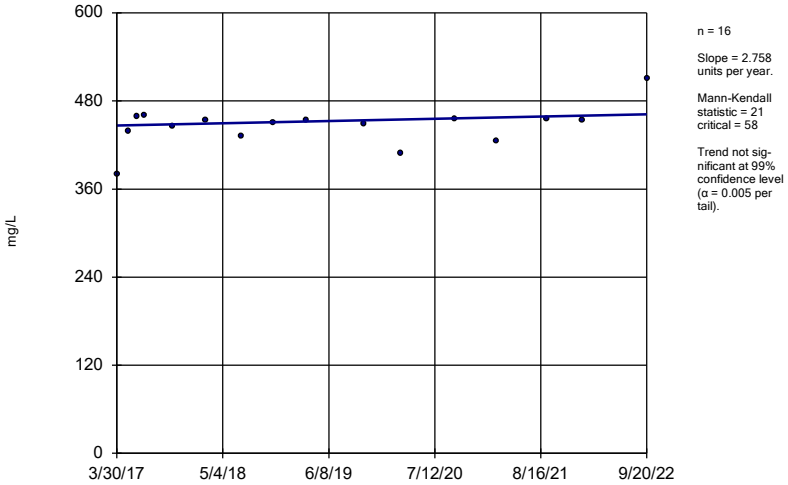
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:48 AM View: Appendix III - Trend Te
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-23



n = 16

Slope = 2.758 units per year.

Mann-Kendall statistic = 21 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

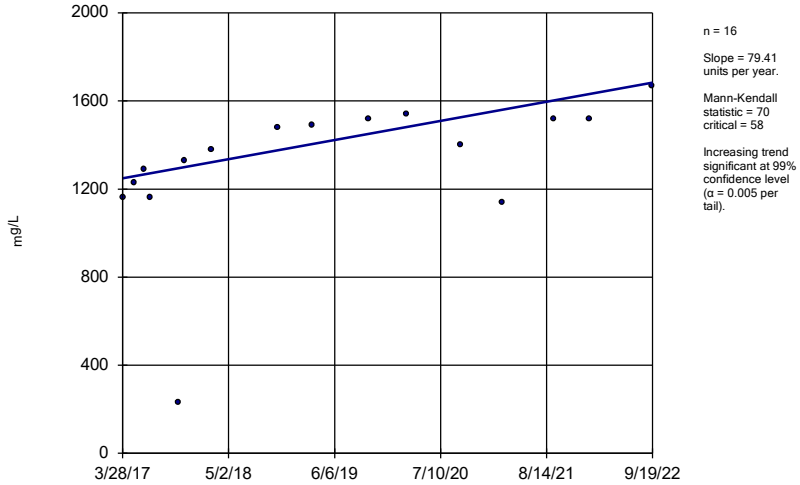
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:48 AM View: Appendix III - Trend Te

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-4



n = 16

Slope = 79.41 units per year.

Mann-Kendall statistic = 70 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

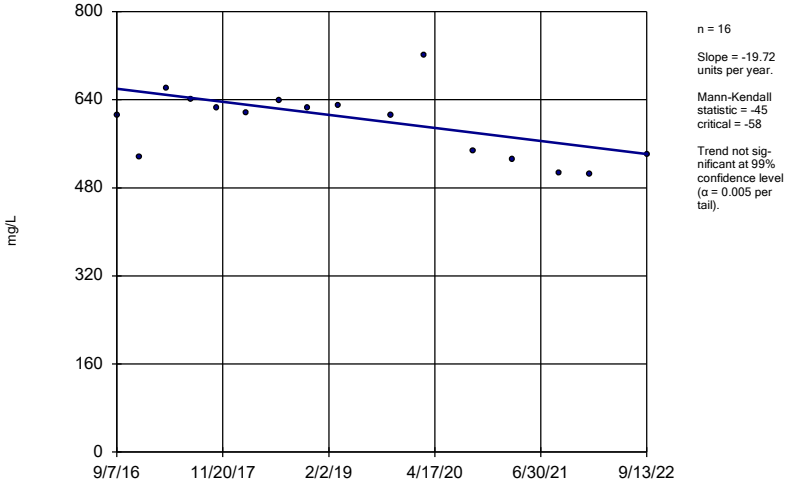
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:48 AM View: Appendix III - Trend Te

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-42



n = 16

Slope = -19.72 units per year.

Mann-Kendall statistic = -45 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

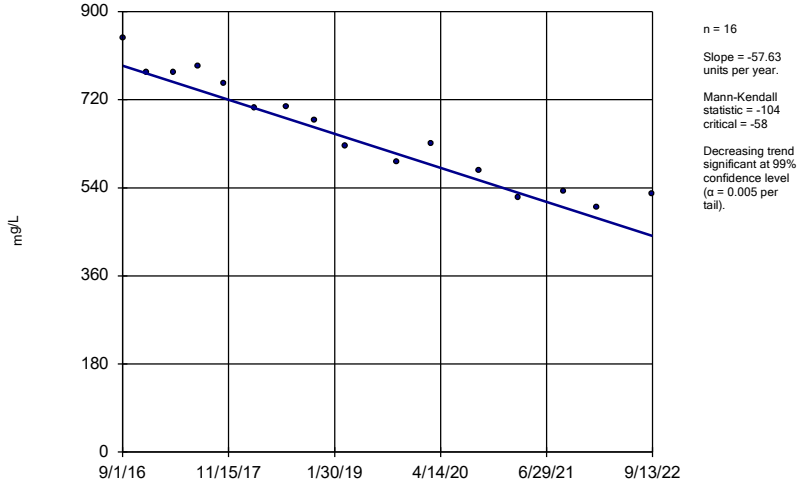
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:48 AM View: Appendix III - Trend Te

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-48



n = 16

Slope = -57.63 units per year.

Mann-Kendall statistic = -104 critical = -58

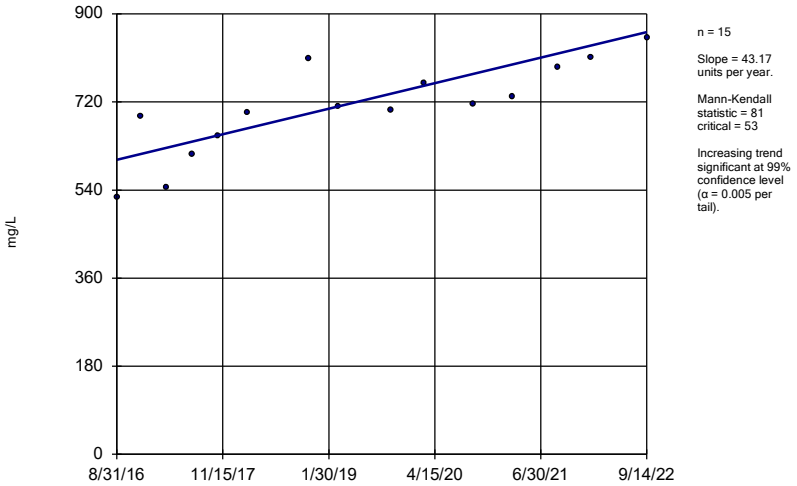
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:48 AM View: Appendix III - Trend Te

Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-5



n = 15

Slope = 43.17 units per year.

Mann-Kendall statistic = 81
critical = 53

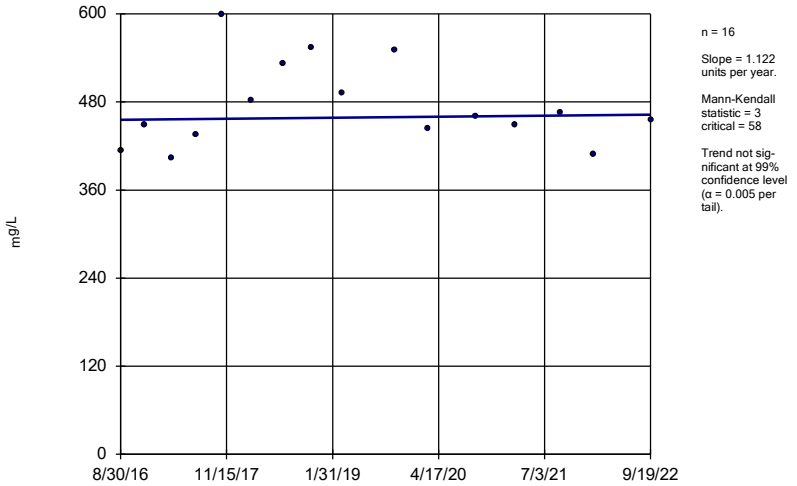
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:48 AM View: Appendix III - Trend Te
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

DGWC-9



n = 16

Slope = 1.122 units per year.

Mann-Kendall statistic = 3
critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/19/2022 2:48 AM View: Appendix III - Trend Te
Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE F.

Upper Tolerance Limits Summary Table

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/18/2022, 1:43 AM

Constituent	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	0.003	n/a	n/a	n/a	n/a	50	82	n/a	0.07694	NP Inter(NDs)
Arsenic (mg/L)	0.0054	n/a	n/a	n/a	n/a	50	74	n/a	0.07694	NP Inter(normality)
Barium (mg/L)	0.19	n/a	n/a	n/a	n/a	50	0	n/a	0.07694	NP Inter(normality)
Beryllium (mg/L)	0.0009	n/a	n/a	n/a	n/a	51	58.82	n/a	0.0731	NP Inter(normality)
Cadmium (mg/L)	0.0005	n/a	n/a	n/a	n/a	50	94	n/a	0.07694	NP Inter(NDs)
Chromium (mg/L)	0.005	n/a	n/a	n/a	n/a	49	65.31	n/a	0.08099	NP Inter(normality)
Cobalt (mg/L)	0.0322	n/a	n/a	n/a	n/a	50	40	n/a	0.07694	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	4.8	n/a	n/a	n/a	n/a	52	0	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.42	n/a	n/a	n/a	n/a	54	50	n/a	0.06267	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	n/a	n/a	50	82	n/a	0.07694	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	n/a	n/a	50	36	n/a	0.07694	NP Inter(normality)
Mercury (mg/L)	0.0002	n/a	n/a	n/a	n/a	50	84	n/a	0.07694	NP Inter(NDs)
Molybdenum (mg/L)	0.0409	n/a	n/a	n/a	n/a	50	64	n/a	0.07694	NP Inter(normality)
Selenium (mg/L)	0.005	n/a	n/a	n/a	n/a	50	100	n/a	0.07694	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	n/a	n/a	50	96	n/a	0.07694	NP Inter(NDs)

FIGURE G.

PLANT MCDONOUGH ASH POND 2, 3, 4 GWPS TABLE				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.0054	0.01
Barium, Total (mg/L)	2		0.19	2
Beryllium, Total (mg/L)	0.004		0.0009	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.005	0.1
Cobalt, Total (mg/L)		0.006	0.032	0.032
Combined Radium, Total (pCi/L)	5		4.8	5
Fluoride, Total (mg/L)	4		0.42	4
Lead, Total (mg/L)		0.015	0.001	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.041	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Highlighted cells indicated Background is higher than MCLs or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Intervals - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.0284	0.01657	0.01	Yes	17	0.02248	0.009441	5.882	None	No	0.01	Param.
Beryllium (mg/L)	B-115D	0.01285	0.009146	0.004	Yes	4	0.011	0.0008165	0	None	No	0.01	Param.
Beryllium (mg/L)	B-92	0.02243	0.01277	0.004	Yes	5	0.0176	0.002881	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.017	0.0069	0.004	Yes	7	0.0147	0.003582	0	None	No	0.008	NP (normality)
Beryllium (mg/L)	DGWC-10	0.009022	0.005928	0.004	Yes	16	0.007475	0.002377	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01243	0.009111	0.004	Yes	17	0.01077	0.002649	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.008951	0.007416	0.004	Yes	17	0.008218	0.001265	0	None	x^(1/3)	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008813	0.006512	0.004	Yes	16	0.007663	0.001768	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005802	0.004939	0.004	Yes	17	0.005371	0.0006881	0	None	No	0.01	Param.
Cobalt (mg/L)	B-104D	0.2056	0.09109	0.032	Yes	6	0.1483	0.04167	0	None	No	0.01	Param.
Cobalt (mg/L)	B-115D	0.3375	0.1875	0.032	Yes	4	0.2625	0.03304	0	None	No	0.01	Param.
Cobalt (mg/L)	B-56	0.05346	0.04121	0.032	Yes	6	0.04733	0.004457	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.05067	0.03805	0.032	Yes	7	0.04436	0.005313	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.06739	0.05889	0.032	Yes	7	0.06314	0.003579	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.193	0.076	0.032	Yes	16	0.1441	0.05294	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-19	0.05329	0.04968	0.032	Yes	17	0.05148	0.002882	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6845	0.4878	0.032	Yes	17	0.5919	0.1635	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.369	0.2475	0.032	Yes	17	0.3083	0.09696	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.4925	0.3864	0.032	Yes	17	0.4394	0.08465	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.08147	0.0369	0.032	Yes	16	0.05919	0.03425	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.208	0.1515	0.032	Yes	17	0.1797	0.04503	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-104D	18.51	8.768	5	Yes	5	13.64	2.907	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-109D	18.75	6.021	5	Yes	4	12.39	2.804	0	None	No	0.01	Param.
Lithium (mg/L)	B-115D	0.09241	0.07609	0.04	Yes	4	0.08425	0.003594	0	None	No	0.01	Param.
Lithium (mg/L)	B-120D	0.09244	0.06756	0.04	Yes	4	0.08	0.005477	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07239	0.05682	0.04	Yes	17	0.06461	0.01243	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1245	0.1056	0.04	Yes	17	0.1151	0.01511	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	B-100	0.003	0.0013	0.006	No	6	0.0025	0.0007849	66.67	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-101D	0.00195	0.0001053	0.006	No	5	0.001422	0.00104	20	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	B-102D	0.003	0.0016	0.006	No	6	0.002767	0.0005715	83.33	Kaplan-Meier	No	0.0155	NP (NDs)
Antimony (mg/L)	B-104D	0.00106	0.0005099	0.006	No	6	0.001507	0.001169	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Antimony (mg/L)	B-106D	0.003	0.00048	0.006	No	5	0.002496	0.001127	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-109D	0.004	0.00042	0.006	No	5	0.002252	0.001543	40	None	No	0.031	NP (selected)
Antimony (mg/L)	B-111D	0.003	0.0006	0.006	No	6	0.0026	0.0009798	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-120D	0.003	0.00029	0.006	No	4	0.002323	0.001355	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	B-56	0.003	0.0011	0.006	No	6	0.002683	0.0007757	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.00046	0.006	No	9	0.002718	0.0008467	88.89	None	No	0.002	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.00066	0.006	No	6	0.00261	0.0009553	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00036	0.006	No	8	0.002053	0.00131	62.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	B-93	0.003	0.00096	0.006	No	6	0.002393	0.0009501	66.67	None	No	0.0155	NP (NDs)
Antimony (mg/L)	DGWC-10	0.003	0.0021	0.006	No	16	0.002944	0.000225	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	18	0.00285	0.0006364	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	17	0.002888	0.0004608	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	17	0.002709	0.0008233	88.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	17	0.00285	0.0006185	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.00036	0.006	No	17	0.002845	0.0006403	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	17	0.002859	0.0005821	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	17	0.0029	0.0004123	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	17	0.002865	0.0005578	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No	16	0.002554	0.0009598	81.25	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No	17	0.002894	0.0004366	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	17	0.002776	0.00068	88.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	16	0.002739	0.0007457	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.00046	0.006	No	16	0.002841	0.000635	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-101D	0.005	0.0017	0.01	No	5	0.00434	0.001476	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	B-104D	0.003563	0.001776	0.01	No	6	0.003817	0.001393	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	B-109D	0.005	0.0026	0.01	No	5	0.00452	0.001073	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	B-111D	0.005	0.0022	0.01	No	6	0.003733	0.001408	50	None	No	0.0155	NP (normality)
Arsenic (mg/L)	B-115D	0.003454	0.001412	0.01	No	4	0.003075	0.00136	25	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-120D	0.005	0.0016	0.01	No	4	0.00415	0.0017	75	Kaplan-Meier	No	0.0625	NP (NDs)
Arsenic (mg/L)	B-56	0.004698	0.00253	0.01	No	6	0.003917	0.0009109	16.67	Kaplan-Meier	x^2	0.01	Param.
Arsenic (mg/L)	B-62	0.005	0.0033	0.01	No	9	0.004811	0.0005667	88.89	Kaplan-Meier	No	0.002	NP (NDs)
Arsenic (mg/L)	B-63	0.005	0.0022	0.01	No	6	0.004533	0.001143	83.33	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	B-77	0.005	0.002	0.01	No	8	0.003425	0.001353	37.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	B-82	0.005	0.003	0.01	No	8	0.00475	0.0007071	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	B-83	0.005	0.0014	0.01	No	7	0.004486	0.001361	85.71	None	No	0.008	NP (NDs)
Arsenic (mg/L)	B-93	0.002828	0.001247	0.01	No	6	0.0035	0.001702	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-10	0.006739	0.003524	0.01	No	16	0.005131	0.002471	6.25	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	18	0.004513	0.001418	88.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	17	0.004729	0.001118	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	17	0.004267	0.001638	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0011	0.01	No	17	0.003372	0.002014	58.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.00192	0.0009543	0.01	No	17	0.002421	0.001611	23.53	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No	17	0.004458	0.001241	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01651	0.008455	0.01	No	17	0.01248	0.006428	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No	17	0.004765	0.0009701	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0008	0.01	No	16	0.003931	0.001916	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	17	0.004518	0.001363	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.002756	0.001467	0.01	No	17	0.002824	0.001533	23.53	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.0012	0.01	No	17	0.003417	0.001968	58.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.008917	0.002832	0.01	No	16	0.007744	0.009484	12.5	None	ln(x)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.005	0.0012	0.01	No	16	0.003854	0.00177	68.75	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**DGWC-9**	**0.0284**	**0.01657**	**0.01**	**Yes**	**17**	**0.02248**	**0.009441**	**5.882**	**None**	**No**	**0.01**	**Param.**
Barium (mg/L)	B-100	0.02353	0.01731	2	No	6	0.02067	0.002875	0	None	x^4	0.01	Param.
Barium (mg/L)	B-101D	0.076	0.062	2	No	5	0.0682	0.007155	0	None	No	0.031	NP (normality)
Barium (mg/L)	B-102D	0.02392	0.01908	2	No	6	0.0215	0.001761	0	None	No	0.01	Param.
Barium (mg/L)	B-104D	0.026	0.021	2	No	6	0.0225	0.002074	0	None	No	0.0155	NP (normality)
Barium (mg/L)	B-106D	0.0222	0.0194	2	No	5	0.0208	0.0008367	0	None	No	0.01	Param.
Barium (mg/L)	B-107D	0.1456	0.04876	2	No	5	0.0972	0.02891	0	None	No	0.01	Param.
Barium (mg/L)	B-108D	0.06692	0.05148	2	No	5	0.0592	0.004604	0	None	No	0.01	Param.
Barium (mg/L)	B-109D	0.06745	0.02078	2	No	5	0.048	0.01528	0	None	x^2	0.01	Param.
Barium (mg/L)	B-111D	0.04313	0.02387	2	No	6	0.0335	0.007007	0	None	No	0.01	Param.
Barium (mg/L)	B-115D	0.01963	0.01187	2	No	4	0.01575	0.001708	0	None	No	0.01	Param.
Barium (mg/L)	B-120D	0.05224	0.009261	2	No	4	0.03075	0.009465	0	None	No	0.01	Param.
Barium (mg/L)	B-56	0.03046	0.02554	2	No	6	0.028	0.001789	0	None	No	0.01	Param.
Barium (mg/L)	B-62	0.02611	0.01944	2	No	9	0.02278	0.003456	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.03126	0.01807	2	No	6	0.02467	0.004803	0	None	No	0.01	Param.
Barium (mg/L)	B-66	0.02089	0.01578	2	No	6	0.01833	0.001862	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.1246	0.09166	2	No	8	0.1081	0.01553	0	None	No	0.01	Param.
Barium (mg/L)	B-82	0.03001	0.02027	2	No	7	0.02514	0.0041	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.044	0.02231	2	No	7	0.03257	0.01095	0	None	ln(x)	0.01	Param.
Barium (mg/L)	B-88	0.02288	0.015	2	No	6	0.01917	0.002858	0	None	x^2	0.01	Param.
Barium (mg/L)	B-93	0.0201	0.01423	2	No	6	0.01717	0.002137	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.02872	0.02237	2	No	16	0.02554	0.004884	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06496	0.05421	2	No	16	0.05959	0.008265	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03435	0.0249	2	No	18	0.03004	0.008517	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03235	0.02732	2	No	16	0.02888	0.006884	6.25	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06278	0.05846	2	No	17	0.06062	0.003446	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.04986	0.04375	2	No	17	0.04681	0.00487	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05427	0.03952	2	No	17	0.04689	0.01177	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02563	0.02224	2	No	17	0.02394	0.002698	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02255	0.02124	2	No	17	0.02188	0.001054	0	None	x^2	0.01	Param.
Barium (mg/L)	DGWC-20	0.01578	0.009998	2	No	17	0.01289	0.004613	5.882	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.024	2	No	17	0.02573	0.001551	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03693	0.03136	2	No	17	0.03415	0.004449	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.02336	0.01875	2	No	17	0.02118	0.003931	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03584	0.03236	2	No	16	0.0341	0.002676	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.01995	0.01598	2	No	17	0.01796	0.003173	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-47	0.01982	0.01629	2	No	17	0.01805	0.002812	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.0155	0.013	2	No	17	0.01371	0.0009565	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-5	0.01829	0.0167	2	No	15	0.01749	0.001173	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03641	0.02521	2	No	16	0.03081	0.008607	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.01629	0.015	2	No	17	0.01565	0.001031	0	None	No	0.01	Param.
Beryllium (mg/L)	B-100	0.0005956	0.0003544	0.004	No	6	0.000475	0.00008781	0	None	No	0.01	Param.
Beryllium (mg/L)	B-101D	0.00008447	0.00004593	0.004	No	5	0.0000652	0.0000115	0	None	No	0.01	Param.
Beryllium (mg/L)	B-102D	0.001386	0.0009811	0.004	No	6	0.001183	0.0001472	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.001558	0.001109	0.004	No	6	0.001333	0.0001633	0	None	No	0.01	Param.
Beryllium (mg/L)	B-106D	0.0001368	0.0001032	0.004	No	5	0.00012	0.00001	0	None	No	0.01	Param.
Beryllium (mg/L)	B-107D	0.00025	0.00005	0.004	No	5	0.00021	0.00008944	80	None	No	0.031	NP (NDs)
Beryllium (mg/L)	B-109D	0.00025	0.000059	0.004	No	5	0.0001078	0.00007994	20	None	No	0.031	NP (normality)
Beryllium (mg/L)	**B-115D**	**0.01285**	**0.009146**	**0.004**	**Yes**	**4**	**0.011**	**0.0008165**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	B-120D	0.0011	0.00085	0.004	No	4	0.00098	0.0001388	0	None	No	0.0625	NP (normality)
Beryllium (mg/L)	B-56	0.00132	0.001113	0.004	No	6	0.001217	0.00007528	0	None	No	0.01	Param.
Beryllium (mg/L)	B-62	0.0001362	0.00009267	0.004	No	10	0.0001448	0.00005955	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Beryllium (mg/L)	B-63	0.0004849	0.0002851	0.004	No	8	0.000385	0.00009426	12.5	None	No	0.01	Param.
Beryllium (mg/L)	B-77	0.0001381	0.00005882	0.004	No	8	0.000155	0.00008448	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Beryllium (mg/L)	B-82	0.002028	0.0012	0.004	No	7	0.001614	0.0003485	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	B-83	0.0005687	0.0002575	0.004	No	7	0.0004071	0.0001421	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	B-88	0.003921	0.0003565	0.004	No	6	0.001872	0.00159	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	**B-92**	**0.02243**	**0.01277**	**0.004**	**Yes**	**5**	**0.0176**	**0.002881**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**B-93**	**0.017**	**0.0069**	**0.004**	**Yes**	**7**	**0.0147**	**0.003582**	**0**	**None**	**No**	**0.008**	**NP (normality)**
Beryllium (mg/L)	B-97	0.001898	0.0005068	0.004	No	6	0.001508	0.000628	16.67	Kaplan-Meier	x^3	0.01	Param.
Beryllium (mg/L)	B-98	0.00087	0.000062	0.004	No	6	0.0004167	0.0003078	50	None	No	0.0155	NP (selected)
Beryllium (mg/L)	**DGWC-10**	**0.009022**	**0.005928**	**0.004**	**Yes**	**16**	**0.007475**	**0.002377**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	DGWC-11	0.00025	0.00013	0.004	No	16	0.00027	0.0003324	43.75	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00025	0.00016	0.004	No	18	0.0002777	0.0003179	16.67	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.00025	0.000073	0.004	No	16	0.0002519	0.000344	56.25	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.0015	0.00022	0.004	No	17	0.0003105	0.0003101	88.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.0006196	0.0004888	0.004	No	17	0.0005447	0.0001249	11.76	None	x^2	0.01	Param.
Beryllium (mg/L)	DGWC-19	0.002008	0.00171	0.004	No	17	0.001797	0.0004339	11.76	None	x^3	0.01	Param.
Beryllium (mg/L)	DGWC-20	0.005273	0.002486	0.004	No	17	0.003879	0.002224	11.76	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0002	0.00015	0.004	No	17	0.0002488	0.0003249	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.00023	0.00014	0.004	No	17	0.0002506	0.0003242	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	17	0.0004912	0.0002804	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00033	0.00019	0.004	No	16	0.0003069	0.0003249	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002711	0.002083	0.004	No	17	0.002326	0.0006783	5.882	None	x^2	0.01	Param.
Beryllium (mg/L)	**DGWC-47**	**0.01243**	**0.009111**	**0.004**	**Yes**	**17**	**0.01077**	**0.002649**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-48**	**0.008951**	**0.007416**	**0.004**	**Yes**	**17**	**0.008218**	**0.001265**	**0**	**None**	**x^(1/3)**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-5**	**0.008813**	**0.006512**	**0.004**	**Yes**	**16**	**0.007663**	**0.001768**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	DGWC-8	0.002763	0.001459	0.004	No	16	0.002174	0.001104	6.25	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	**DGWC-9**	**0.005802**	**0.004939**	**0.004**	**Yes**	**17**	**0.005371**	**0.0006881**	**0**	**None**	**No**	**0.01**	**Param.**
Cadmium (mg/L)	B-100	0.00059	0.00027	0.005	No	6	0.00038	0.0001628	0	None	No	0.0155	NP (normality)
Cadmium (mg/L)	B-101D	0.0005	0.00011	0.005	No	5	0.000422	0.0001744	80	None	No	0.031	NP (NDs)
Cadmium (mg/L)	B-102D	0.0009434	0.0006999	0.005	No	6	0.0008217	0.00008864	0	None	No	0.01	Param.
Cadmium (mg/L)	B-106D	0.0002669	0.0001181	0.005	No	5	0.000254	0.0001445	20	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	B-115D	0.0005302	0.00008476	0.005	No	4	0.0003075	0.00009811	0	None	No	0.01	Param.
Cadmium (mg/L)	B-120D	0.0013	0.00084	0.005	No	4	0.00107	0.0001013	0	None	No	0.01	Param.
Cadmium (mg/L)	B-56	0.0003025	0.0002375	0.005	No	6	0.00027	0.00002366	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0005	0.00014	0.005	No	6	0.000345	0.0001734	50	None	No	0.0155	NP (normality)
Cadmium (mg/L)	B-82	0.0007742	0.0004201	0.005	No	7	0.0005971	0.0001491	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0003836	0.000265	0.005	No	7	0.0003243	0.00004995	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.0065	0.00022	0.005	No	6	0.002553	0.002222	0	None	No	0.0155	NP (selected)
Cadmium (mg/L)	B-93	0.0008701	0.0007199	0.005	No	6	0.000795	0.00005468	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001152	0.0007597	0.005	No	16	0.0009556	0.0003012	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00016	0.005	No	16	0.0004106	0.0001601	75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.000327	0.0002145	0.005	No	18	0.0003878	0.0001897	27.78	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	16	0.000455	0.0001249	87.5	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00013	0.005	No	17	0.0004371	0.0002236	76.47	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.00033	0.00023	0.005	No	17	0.0002935	0.00008616	11.76	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.00041	0.00034	0.005	No	17	0.0004141	0.0001576	11.76	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.0005	0.00014	0.005	No	17	0.0003824	0.0002229	41.18	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-20	0.002291	0.00178	0.005	No	17	0.002035	0.0004076	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.0006131	0.0003396	0.005	No	17	0.00058	0.0002051	17.65	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0006868	0.0004708	0.005	No	17	0.0005788	0.0001724	11.76	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0003	0.00018	0.005	No	17	0.0002788	0.0002044	11.76	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.0008536	0.0006414	0.005	No	16	0.0007475	0.0001631	12.5	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.001003	0.0004734	0.005	No	17	0.0007894	0.0005327	11.76	None	x^(1/3)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.002104	0.001272	0.005	No	17	0.001688	0.0006642	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.0036	0.0026	0.005	No	17	0.003435	0.001595	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-5	0.0008361	0.0004889	0.005	No	16	0.0006625	0.0002669	12.5	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002443	0.001819	0.005	No	16	0.002131	0.0004799	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006783	0.000519	0.005	No	17	0.0006024	0.0001347	11.76	None	sqrt(x)	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	B-100	0.005	0.00057	0.1	No	6	0.003585	0.002195	66.67	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-101D	0.005	0.0014	0.1	No	5	0.00428	0.00161	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	B-104D	0.005	0.0011	0.1	No	6	0.00435	0.001592	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-109D	0.005	0.00061	0.1	No	5	0.004122	0.001963	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	B-56	0.005	0.00059	0.1	No	6	0.003065	0.00214	50	None	No	0.0155	NP (normality)
Chromium (mg/L)	B-62	0.005	0.00098	0.1	No	9	0.004553	0.00134	88.89	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.00064	0.1	No	6	0.004273	0.00178	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-77	0.005	0.00068	0.1	No	8	0.003057	0.002123	50	None	No	0.004	NP (normality)
Chromium (mg/L)	B-82	0.005	0.0011	0.1	No	7	0.004443	0.001474	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	B-83	0.005285	0.001944	0.1	No	7	0.003614	0.001406	0	None	No	0.01	Param.
Chromium (mg/L)	B-88	0.005	0.00085	0.1	No	6	0.003158	0.002036	50	None	No	0.0155	NP (normality)
Chromium (mg/L)	B-93	0.005	0.00057	0.1	No	6	0.002888	0.00232	50	None	No	0.0155	NP (normality)
Chromium (mg/L)	DGWC-10	0.005	0.00078	0.1	No	16	0.002412	0.002073	37.5	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.00061	0.1	No	16	0.003899	0.001969	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No	18	0.004552	0.001305	88.89	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.005	0.00074	0.1	No	16	0.003931	0.001914	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.0048	0.1	No	17	0.004491	0.00225	76.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0033	0.0024	0.1	No	17	0.002994	0.0008295	11.76	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.0031	0.0024	0.1	No	17	0.003329	0.001911	17.65	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.0005	0.1	No	17	0.003422	0.002203	64.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.005	0.0015	0.1	No	17	0.003265	0.002306	35.29	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-21	0.005	0.0006	0.1	No	17	0.003526	0.002084	64.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	17	0.004776	0.0009216	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0005	0.1	No	17	0.002518	0.002154	41.18	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	16	0.004719	0.001125	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.0008	0.1	No	17	0.003308	0.002116	58.82	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	17	0.004747	0.001043	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	17	0.004476	0.001479	88.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	16	0.004716	0.001137	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.005	0.00086	0.1	No	16	0.003592	0.001943	62.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.0057	0.00061	0.1	No	17	0.003635	0.002069	58.82	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.087	0.028	0.032	No	8	0.05125	0.02684	0	None	No	0.004	NP (normality)
Cobalt (mg/L)	B-101D	0.003812	0.002188	0.032	No	5	0.003	0.0004848	0	None	No	0.01	Param.
Cobalt (mg/L)	B-102D	0.01509	0.01225	0.032	No	6	0.01367	0.001033	0	None	No	0.01	Param.
Cobalt (mg/L)	**B-104D**	**0.2056**	**0.09109**	**0.032**	**Yes**	**6**	**0.1483**	**0.04167**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	B-106D	0.0009444	0.0005169	0.032	No	5	0.001426	0.0009865	40	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	B-107D	0.001753	0.0003352	0.032	No	5	0.001044	0.000423	0	None	No	0.01	Param.
Cobalt (mg/L)	B-108D	0.004907	0.0001737	0.032	No	5	0.001962	0.001654	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-111D	0.0008129	0.0004143	0.032	No	6	0.001232	0.0009904	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	**B-115D**	**0.3375**	**0.1875**	**0.032**	**Yes**	**4**	**0.2625**	**0.03304**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	B-120D	0.02518	0.000009622	0.032	No	4	0.007425	0.006488	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	**B-56**	**0.05346**	**0.04121**	**0.032**	**Yes**	**6**	**0.04733**	**0.004457**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	B-62	0.0025	0.00031	0.032	No	10	0.002061	0.0009255	80	None	No	0.011	NP (NDs)
Cobalt (mg/L)	**B-63**	**0.05067**	**0.03805**	**0.032**	**Yes**	**7**	**0.04436**	**0.005313**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	B-66	0.01356	0.004416	0.032	No	7	0.008986	0.003847	14.29	None	No	0.01	Param.
Cobalt (mg/L)	B-77	0.002648	0.0007123	0.032	No	8	0.001987	0.0008806	37.5	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-82	0.006341	0.001171	0.032	No	8	0.003756	0.002439	0	None	No	0.01	Param.
Cobalt (mg/L)	B-83	0.01862	0.007148	0.032	No	7	0.01289	0.004831	0	None	No	0.01	Param.
Cobalt (mg/L)	B-88	0.01587	0.001019	0.032	No	7	0.007364	0.008753	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	**B-93**	**0.06739**	**0.05889**	**0.032**	**Yes**	**7**	**0.06314**	**0.003579**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	B-98	0.0048	0.00063	0.032	No	5	0.002586	0.001479	60	None	No	0.031	NP (NDs)
Cobalt (mg/L)	**DGWC-10**	**0.193**	**0.076**	**0.032**	**Yes**	**16**	**0.1441**	**0.05294**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	DGWC-11	0.0025	0.00065	0.032	No	16	0.001452	0.0008668	37.5	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.018	0.0025	0.032	No	18	0.009611	0.01017	11.11	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-13	0.0025	0.0005	0.032	No	16	0.002111	0.0008361	81.25	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	DGWC-15	0.0025	0.0016	0.032	No	17	0.003406	0.005607	5.882	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02641	0.01852	0.032	No	17	0.02246	0.006302	5.882	None	No	0.01	Param.
Cobalt (mg/L)	**DGWC-19**	**0.05329**	**0.04968**	**0.032**	**Yes**	**17**	**0.05148**	**0.002882**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-2	0.02169	0.007709	0.032	No	17	0.01594	0.01179	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	**DGWC-20**	**0.6845**	**0.4878**	**0.032**	**Yes**	**17**	**0.5919**	**0.1635**	**0**	**None**	**sqrt(x)**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-21	0.009637	0.008194	0.032	No	17	0.008529	0.002021	11.76	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009817	0.007638	0.032	No	17	0.008547	0.002138	11.76	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.0025	0.00043	0.032	No	17	0.00168	0.001338	52.94	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-4	0.0021	0.0015	0.032	No	16	0.002	0.0008438	12.5	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.03784	0.01411	0.032	No	17	0.02798	0.02053	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	**DGWC-47**	**0.369**	**0.2475**	**0.032**	**Yes**	**17**	**0.3083**	**0.09696**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-48**	**0.4925**	**0.3864**	**0.032**	**Yes**	**17**	**0.4394**	**0.08465**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-5	0.04	0.0209	0.032	No	16	0.0277	0.01036	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	**DGWC-8**	**0.08147**	**0.0369**	**0.032**	**Yes**	**16**	**0.05919**	**0.03425**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-9**	**0.208**	**0.1515**	**0.032**	**Yes**	**17**	**0.1797**	**0.04503**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	B-100	1.3	0.2178	5	No	6	0.7588	0.3938	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-101D	2.694	0.8511	5	No	4	1.773	0.4058	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-102D	1.803	0.2022	5	No	5	1.002	0.4775	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	**B-104D**	**18.51**	**8.768**	**5**	**Yes**	**5**	**13.64**	**2.907**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	B-106D	1.147	0.2089	5	No	4	0.678	0.2066	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-107D	2.685	0.1062	5	No	4	1.396	0.568	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-108D	2.507	0.02236	5	No	4	1.265	0.5472	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	**B-109D**	**18.75**	**6.021**	**5**	**Yes**	**4**	**12.39**	**2.804**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	B-111D	13.54	2.882	5	No	5	8.21	3.18	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-56	1.434	0.6598	5	No	5	1.047	0.231	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	1.964	1.348	5	No	8	1.656	0.2907	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-63	2.742	0.231	5	No	4	1.487	0.553	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-66	1.07	0	5	No	4	0.6165	0.5008	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-77	2.525	0.5185	5	No	6	1.416	0.7269	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-82	1.101	0.2589	5	No	5	0.6798	0.2512	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-83	1.199	0.1069	5	No	6	0.6532	0.3977	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-88	3.228	0.04599	5	No	5	1.637	0.9496	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-93	2.013	0.4326	5	No	5	1.223	0.4716	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.477	1.082	5	No	16	1.28	0.3039	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.251	0.6895	5	No	16	0.9703	0.4315	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.227	0.4225	5	No	16	0.8885	0.691	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.462	0.9329	5	No	16	1.197	0.4063	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.075	0.6362	5	No	16	0.8554	0.337	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.478	0.5478	5	No	16	1.081	0.8576	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	1.026	0.5813	5	No	16	0.8038	0.342	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	1.005	0.4964	5	No	16	0.7509	0.3912	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.406	0.8744	5	No	16	1.14	0.4084	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.501	0.8706	5	No	16	1.186	0.4842	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.087	0.5598	5	No	16	0.8233	0.405	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.319	0.6845	5	No	16	1.002	0.4877	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.442	0.7588	5	No	16	1.1	0.5247	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.684	1.161	5	No	16	1.422	0.4014	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.144	0.6427	5	No	16	0.8934	0.3853	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	2.824	1.669	5	No	16	2.247	0.8871	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.406	1.484	5	No	16	1.945	0.7088	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.784	1.001	5	No	16	1.392	0.6017	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.816	0.4664	5	No	16	0.6412	0.2687	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.405	0.9357	5	No	16	1.171	0.3608	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-100	0.1	0.072	4	No	6	0.09533	0.01143	83.33	None	No	0.0155	NP (NDs)
Fluoride, total (mg/L)	B-101D	0.1	0.051	4	No	5	0.071	0.02603	20	None	No	0.031	NP (normality)

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	B-102D	0.1133	0.06032	4	No	6	0.08683	0.0193	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-104D	0.4824	0.2676	4	No	6	0.375	0.07817	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-106D	0.07945	0.04005	4	No	5	0.0678	0.0215	20	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	B-107D	0.1	0.053	4	No	5	0.0906	0.02102	80	Kaplan-Meier	No	0.031	NP (NDs)
Fluoride, total (mg/L)	B-108D	0.1	0.061	4	No	5	0.0922	0.01744	80	Kaplan-Meier	No	0.031	NP (NDs)
Fluoride, total (mg/L)	B-109D	0.1807	0.1073	4	No	5	0.144	0.02191	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-111D	0.5548	0.2752	4	No	6	0.415	0.1017	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-115D	1.484	0.4086	4	No	4	0.8025	0.2229	0	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	B-120D	0.1	0.057	4	No	4	0.08925	0.0215	75	None	No	0.0625	NP (NDs)
Fluoride, total (mg/L)	B-56	0.3162	0.1032	4	No	6	0.2097	0.07752	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-62	0.43	0.093	4	No	8	0.1678	0.1145	0	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	B-63	0.4452	0.06354	4	No	5	0.214	0.1352	0	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	B-66	0.5195	0.01253	4	No	5	0.266	0.1513	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-77	0.1	0.078	4	No	7	0.09343	0.009981	57.14	None	No	0.008	NP (NDs)
Fluoride, total (mg/L)	B-82	0.1527	0.03333	4	No	6	0.1052	0.05017	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	B-83	0.1049	0.04706	4	No	7	0.08543	0.02668	28.57	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	B-88	0.1	0.054	4	No	6	0.09233	0.01878	83.33	Kaplan-Meier	No	0.0155	NP (NDs)
Fluoride, total (mg/L)	B-93	0.4121	0.2912	4	No	6	0.3517	0.04401	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-10	1.825	1.321	4	No	18	1.573	0.4167	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-11	0.1	0.052	4	No	17	0.08059	0.02524	58.82	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-12	0.2	0.078	4	No	18	0.1506	0.1381	33.33	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-13	0.1896	0.08406	4	No	17	0.1478	0.1056	5.882	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-14	0.1	0.059	4	No	18	0.08517	0.02588	66.67	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-15	0.11	0.079	4	No	18	0.1028	0.04206	61.11	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-17	0.31	0.084	4	No	18	0.1924	0.1496	16.67	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-19	0.449	0.1721	4	No	18	0.3489	0.3011	5.556	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-2	0.28	0.053	4	No	18	0.1368	0.1501	38.89	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-20	0.9663	0.4549	4	No	18	0.7106	0.4226	5.556	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-21	0.14	0.079	4	No	18	0.1055	0.06279	61.11	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-22	0.12	0.09	4	No	18	0.1147	0.06261	50	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-23	0.2073	0.0939	4	No	18	0.1763	0.1487	11.11	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-4	0.17	0.082	4	No	18	0.1302	0.1679	66.67	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-42	0.1	0.06	4	No	18	0.09333	0.02058	88.89	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-47	1.081	0.52	4	No	18	0.8006	0.4638	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-48	1.076	0.5784	4	No	18	0.8572	0.4371	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-5	0.6408	0.2247	4	No	17	0.5271	0.4418	5.882	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-8	0.3171	0.09257	4	No	17	0.2635	0.2284	17.65	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-9	1.352	0.965	4	No	18	1.158	0.3195	0	None	No	0.01	Param.
Lead (mg/L)	B-100	0.001	0.000088	0.015	No	6	0.0005797	0.0004622	50	None	No	0.0155	NP (normality)
Lead (mg/L)	B-101D	0.001	0.000065	0.015	No	5	0.000813	0.0004181	80	None	No	0.031	NP (NDs)
Lead (mg/L)	B-102D	0.001	0.000037	0.015	No	6	0.0005243	0.0005211	50	None	No	0.0155	NP (normality)
Lead (mg/L)	B-104D	0.001	0.000051	0.015	No	6	0.0008418	0.0003874	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	B-107D	0.001	0.000044	0.015	No	5	0.0008088	0.0004275	80	None	No	0.031	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000051	0.015	No	6	0.0006848	0.0004883	66.67	None	No	0.0155	NP (NDs)
Lead (mg/L)	B-115D	0.001	0.00032	0.015	No	4	0.00083	0.00034	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	B-120D	0.001	0.00019	0.015	No	4	0.0007975	0.000405	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	B-56	0.001	0.000091	0.015	No	6	0.0005685	0.0004749	50	None	No	0.0155	NP (normality)
Lead (mg/L)	B-63	0.001	0.000047	0.015	No	6	0.0006867	0.0004855	66.67	None	No	0.0155	NP (NDs)
Lead (mg/L)	B-77	0.0016	0.00021	0.015	No	8	0.0008025	0.0004838	50	None	No	0.004	NP (selected)
Lead (mg/L)	B-82	0.001	0.000059	0.015	No	7	0.0006184	0.0004768	57.14	None	No	0.008	NP (NDs)
Lead (mg/L)	B-83	0.001	0.000065	0.015	No	7	0.0006107	0.0004624	42.86	None	No	0.008	NP (normality)
Lead (mg/L)	B-88	0.006095	0.0002108	0.015	No	6	0.002893	0.004503	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	B-93	0.001	0.00012	0.015	No	6	0.0007067	0.0004544	66.67	Kaplan-Meier	No	0.0155	NP (NDs)
Lead (mg/L)	DGWC-10	0.001	0.00011	0.015	No	16	0.0006739	0.0004362	62.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.0001	0.015	No	16	0.0007187	0.0004314	68.75	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	DGWC-12	0.001	0.00011	0.015	No	18	0.0009006	0.0002894	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.015	No	16	0.0008936	0.0002913	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.015	No	17	0.0008366	0.0003639	82.35	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.0012	0.0001	0.015	No	17	0.0007495	0.0004302	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.0001	0.015	No	17	0.0006349	0.0004504	58.82	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00016	0.015	No	17	0.0007405	0.000417	70.59	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.00009	0.015	No	17	0.0005726	0.0004676	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-20	0.001	0.00044	0.015	No	17	0.0007628	0.0003566	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.00015	0.015	No	17	0.0006627	0.0004214	58.82	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.015	No	17	0.0009451	0.0002265	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.00012	0.015	No	16	0.0007793	0.0003958	75	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0004369	0.0001603	0.015	No	17	0.0008365	0.001151	29.41	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.001	0.0006	0.015	No	17	0.001071	0.001035	35.29	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.002	0.00095	0.015	No	17	0.001588	0.001115	11.76	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.001	0.000063	0.015	No	16	0.0006486	0.0006457	43.75	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.001	0.00011	0.015	No	16	0.0006739	0.0004052	56.25	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-9	0.001	0.00028	0.015	No	17	0.0008588	0.0003153	82.35	None	No	0.01	NP (NDs)
Lithium (mg/L)	B-100	0.002815	0.001518	0.04	No	6	0.002167	0.0004719	0	None	No	0.01	Param.
Lithium (mg/L)	B-101D	0.01506	0.008456	0.04	No	5	0.01176	0.001972	0	None	No	0.01	Param.
Lithium (mg/L)	B-102D	0.01477	0.01156	0.04	No	6	0.01317	0.001169	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.0403	0.0357	0.04	No	6	0.038	0.001673	0	None	No	0.01	Param.
Lithium (mg/L)	B-106D	0.005805	0.004811	0.04	No	5	0.00534	0.000313	0	None	x^3	0.01	Param.
Lithium (mg/L)	B-107D	0.01704	0.01336	0.04	No	5	0.0152	0.001095	0	None	No	0.01	Param.
Lithium (mg/L)	B-108D	0.01668	0.01332	0.04	No	5	0.015	0.001	0	None	No	0.01	Param.
Lithium (mg/L)	B-109D	0.01605	0.01195	0.04	No	5	0.014	0.001225	0	None	No	0.01	Param.
Lithium (mg/L)	B-111D	0.02962	0.01871	0.04	No	6	0.02417	0.003971	0	None	No	0.01	Param.
Lithium (mg/L)	**B-115D**	**0.09241**	**0.07609**	**0.04**	**Yes**	**4**	**0.08425**	**0.003594**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**B-120D**	**0.09244**	**0.06756**	**0.04**	**Yes**	**4**	**0.08**	**0.005477**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	B-56	0.006056	0.004944	0.04	No	6	0.0055	0.000405	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.015	0.0078	0.04	No	9	0.009278	0.002213	11.11	None	No	0.002	NP (normality)
Lithium (mg/L)	B-63	0.015	0.0062	0.04	No	7	0.007714	0.003231	14.29	None	No	0.008	NP (normality)
Lithium (mg/L)	B-66	0.015	0.00073	0.04	No	6	0.01262	0.005826	83.33	None	No	0.0155	NP (NDs)
Lithium (mg/L)	B-77	0.003715	0.001092	0.04	No	8	0.005531	0.005977	25	Kaplan-Meier	ln(x)	0.01	Param.
Lithium (mg/L)	B-82	0.0039	0.00078	0.04	No	7	0.001814	0.001352	0	None	No	0.008	NP (normality)
Lithium (mg/L)	B-83	0.003738	0.001605	0.04	No	7	0.002671	0.0008976	0	None	No	0.01	Param.
Lithium (mg/L)	B-88	0.0202	0.0009269	0.04	No	6	0.007833	0.0106	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	B-93	0.013	0.011	0.04	No	6	0.01183	0.0009832	0	None	No	0.0155	NP (normality)
Lithium (mg/L)	DGWC-10	0.006599	0.002973	0.04	No	16	0.005375	0.003986	12.5	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.04	No	16	0.003069	0.003198	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.0011	0.04	No	18	0.01034	0.006786	66.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.004	0.0029	0.04	No	16	0.00475	0.004016	12.5	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0034	0.04	No	17	0.004671	0.002882	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0064	0.0057	0.04	No	16	0.006144	0.0008469	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.0011	0.04	No	17	0.01009	0.006856	64.71	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0034	0.0031	0.04	No	17	0.003894	0.00287	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.0807	0.023	0.04	No	17	0.04594	0.0297	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.04	No	17	0.006924	0.005464	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-21	0.0065	0.0057	0.04	No	17	0.006535	0.002217	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0046	0.0036	0.04	No	17	0.004653	0.002705	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.014	0.0039	0.04	No	17	0.01075	0.01733	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-4	0.0037	0.0025	0.04	No	16	0.003781	0.003031	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01233	0.009624	0.04	No	17	0.01098	0.002158	5.882	None	No	0.01	Param.
Lithium (mg/L)	**DGWC-47**	**0.07239**	**0.05682**	**0.04**	**Yes**	**17**	**0.06461**	**0.01243**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**DGWC-48**	**0.1245**	**0.1056**	**0.04**	**Yes**	**17**	**0.1151**	**0.01511**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	DGWC-5	0.008091	0.004567	0.04	No	16	0.006481	0.002885	6.25	None	sqrt(x)	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	DGWC-8	0.00675	0.004185	0.04	No	16	0.005725	0.002765	6.25	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-9	0.02895	0.02357	0.04	No	17	0.02626	0.004292	5.882	None	No	0.01	Param.
Mercury (mg/L)	B-100	0.0002	0.00011	0.002	No	5	0.000182	0.00004025	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-101D	0.0002	0.00014	0.002	No	5	0.000188	0.00002683	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-104D	0.0002	0.000079	0.002	No	6	0.0001798	0.0000494	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-107D	0.0002	0.00016	0.002	No	5	0.000192	0.00001789	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-108D	0.0002	0.00014	0.002	No	5	0.000188	0.00002683	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.000094	0.002	No	6	0.0001823	0.00004327	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-56	0.0002	0.00016	0.002	No	6	0.0001933	0.00001633	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No	7	0.0001871	0.00003402	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.0001	0.002	No	6	0.0001683	0.00004916	66.67	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-93	0.0002543	0.00009374	0.002	No	6	0.0001847	0.00006049	16.67	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0002	0.000081	0.002	No	16	0.0001701	0.00005368	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.0002	0.00008	0.002	No	16	0.0001744	0.00005537	81.25	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00008	0.002	No	18	0.0001592	0.00006243	66.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	16	0.000185	0.00004115	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	17	0.0001759	0.00005397	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	17	0.0001918	0.00003395	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.000082	0.002	No	17	0.0001474	0.0000627	52.94	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-19	0.0002	0.00009	0.002	No	17	0.0001753	0.0000558	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	17	0.0002043	0.000122	76.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	17	0.0001794	0.00004589	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00008	0.002	No	17	0.0001629	0.0000608	70.59	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.00011	0.002	No	17	0.0001715	0.00005465	76.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0001899	0.0001266	0.002	No	17	0.0001871	0.00005382	35.29	Kaplan-Meier	x^(1/3)	0.01	Param.
Mercury (mg/L)	DGWC-4	0.00022	0.00013	0.002	No	16	0.0002064	0.0001111	68.75	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	17	0.0001906	0.00003881	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	17	0.0001918	0.00003395	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002509	0.0001313	0.002	No	16	0.0001996	0.0001117	12.5	None	x^(1/3)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.000079	0.002	No	16	0.0001557	0.00006126	62.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.0002	0.00013	0.002	No	17	0.000186	0.00008263	41.18	None	No	0.01	NP (normality)
Molybdenum (mg/L)	B-101D	0.01	0.0022	0.1	No	5	0.00844	0.003488	80	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	B-102D	0.01	0.0015	0.1	No	6	0.008583	0.00347	83.33	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	B-104D	0.01	0.00083	0.1	No	6	0.007005	0.004641	66.67	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	B-109D	0.002187	0.0007334	0.1	No	5	0.00146	0.0004336	0	None	No	0.01	Param.
Molybdenum (mg/L)	B-111D	0.013	0.0052	0.1	No	6	0.007117	0.002969	0	None	No	0.0155	NP (normality)
Molybdenum (mg/L)	B-120D	0.01	0.00089	0.1	No	4	0.007722	0.004555	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	B-66	0.01	0.0015	0.1	No	6	0.007217	0.004313	66.67	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.1	No	6	0.007067	0.004544	66.67	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	DGWC-13	0.02242	0.01192	0.1	No	16	0.01833	0.009341	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.0018	0.1	No	17	0.004747	0.004019	35.29	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01082	0.007024	0.1	No	17	0.008924	0.003032	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.006923	0.004615	0.1	No	16	0.005769	0.001774	6.25	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.0019	0.05	No	6	0.004483	0.001266	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-101D	0.005	0.0031	0.05	No	5	0.00462	0.0008497	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-104D	0.005	0.0016	0.05	No	6	0.004117	0.001448	66.67	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-108D	0.005	0.0016	0.05	No	5	0.00432	0.001521	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-111D	0.005	0.0022	0.05	No	6	0.004533	0.001143	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-115D	0.007751	0.0006488	0.05	No	4	0.0042	0.001564	0	None	No	0.01	Param.
Selenium (mg/L)	B-120D	0.00459	0.0002602	0.05	No	4	0.002425	0.0009535	0	None	No	0.01	Param.
Selenium (mg/L)	B-56	0.02364	0.005489	0.05	No	6	0.01343	0.00791	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No	8	0.004587	0.001167	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0016	0.05	No	7	0.003671	0.001664	57.14	None	No	0.008	NP (NDs)
Selenium (mg/L)	B-83	0.02829	0.01234	0.05	No	7	0.02031	0.006715	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.002986	0.001427	0.05	No	6	0.0029	0.001235	16.67	Kaplan-Meier	No	0.01	Param.

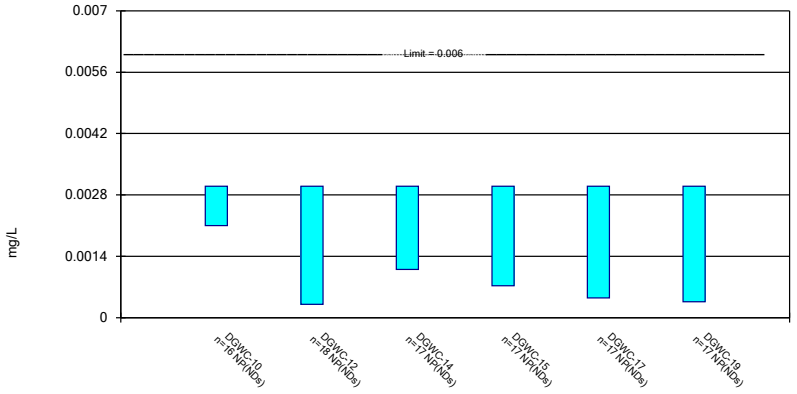
Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	B-93	0.02992	0.003804	0.05	No	6	0.01513	0.01105	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-10	0.04891	0.02113	0.05	No	16	0.03502	0.02135	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0019	0.05	No	18	0.00405	0.002157	61.11	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004355	0.002125	0.05	No	16	0.004394	0.002313	18.75	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-14	0.01	0.0017	0.05	No	17	0.004118	0.002217	64.71	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	17	0.005106	0.00148	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.008819	0.006411	0.05	No	17	0.007771	0.002266	11.76	None	ln(x)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.008624	0.005564	0.05	No	17	0.007094	0.002441	11.76	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0051	0.0037	0.05	No	17	0.004871	0.001733	41.18	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06544	0.03599	0.05	No	17	0.05072	0.0235	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	17	0.004806	0.0008004	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	16	0.004775	0.0009	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01198	0.004695	0.05	No	17	0.008335	0.00581	11.76	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.006509	0.002678	0.05	No	17	0.005541	0.003219	17.65	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.03982	0.009533	0.05	No	16	0.03004	0.03995	6.25	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.0069	0.0028	0.05	No	16	0.004637	0.002001	56.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-9	0.121	0.04897	0.05	No	17	0.08498	0.05747	0	None	No	0.01	Param.
Thallium (mg/L)	B-56	0.0003125	0.0001709	0.002	No	6	0.0002417	0.00005154	0	None	No	0.01	Param.
Thallium (mg/L)	B-82	0.005	0.000099	0.002	No	7	0.003601	0.002389	71.43	None	No	0.008	NP (NDs)
Thallium (mg/L)	B-83	0.005	0.000072	0.002	No	7	0.004296	0.001863	85.71	None	No	0.008	NP (NDs)
Thallium (mg/L)	B-88	0.005	0.0002	0.002	No	6	0.0042	0.00196	83.33	None	No	0.0155	NP (NDs)
Thallium (mg/L)	DGWC-10	0.001	0.00034	0.002	No	16	0.001012	0.001565	18.75	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.005	0.00009	0.002	No	18	0.003093	0.00246	61.11	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.005	0.00017	0.002	No	17	0.001881	0.002375	35.29	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.00057	0.00049	0.002	No	17	0.0005465	0.0001297	5.882	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.005	0.00055	0.002	No	17	0.00189	0.001838	29.41	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-22	0.005	0.00007	0.002	No	17	0.003549	0.002317	70.59	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.005	0.000073	0.002	No	16	0.004692	0.001232	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.005	0.00009	0.002	No	17	0.003843	0.002149	76.47	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00032	0.0002	0.002	No	17	0.0005741	0.001156	11.76	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.005	0.00008	0.002	No	17	0.003553	0.00231	70.59	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.005	0.0002	0.002	No	16	0.004084	0.00197	81.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	16	0.001164	0.001913	25	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.005	0.00044	0.002	No	17	0.002385	0.002258	41.18	None	No	0.01	NP (normality)

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

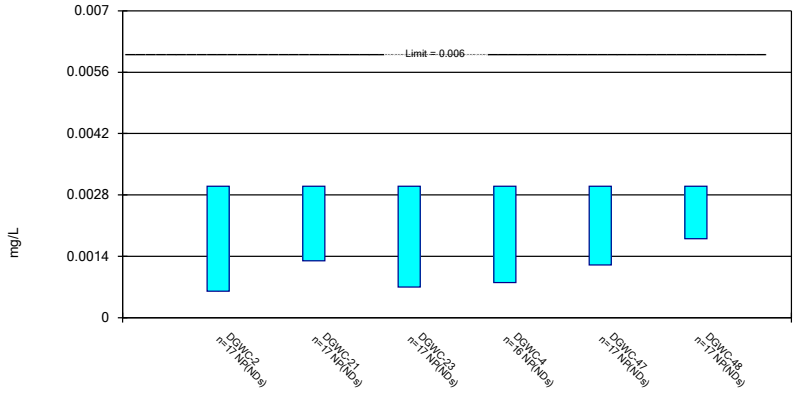


Constituent: Antimony Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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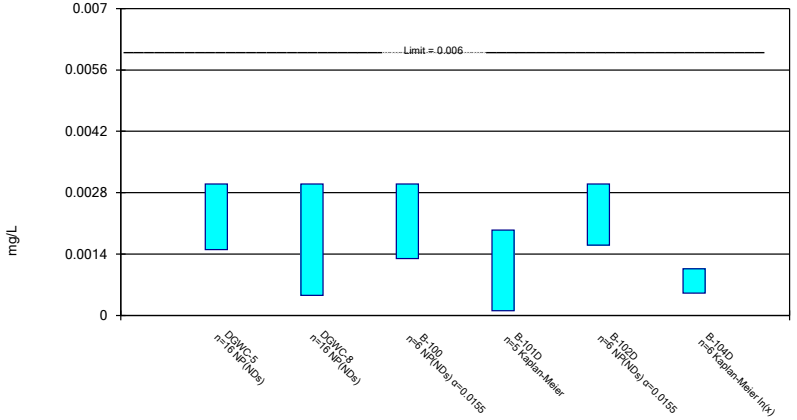
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

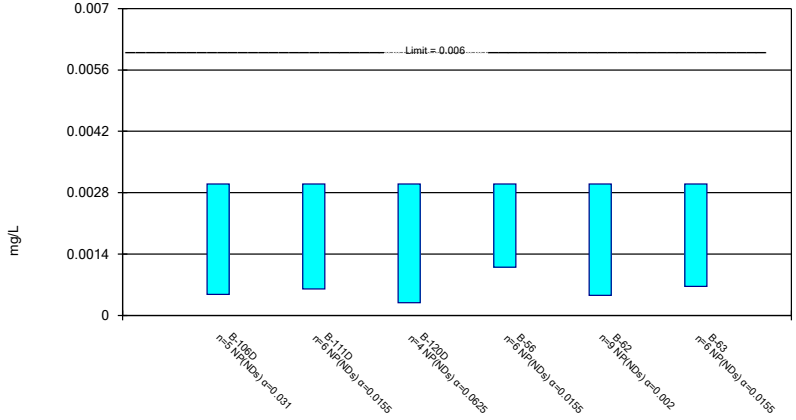


Constituent: Antimony Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

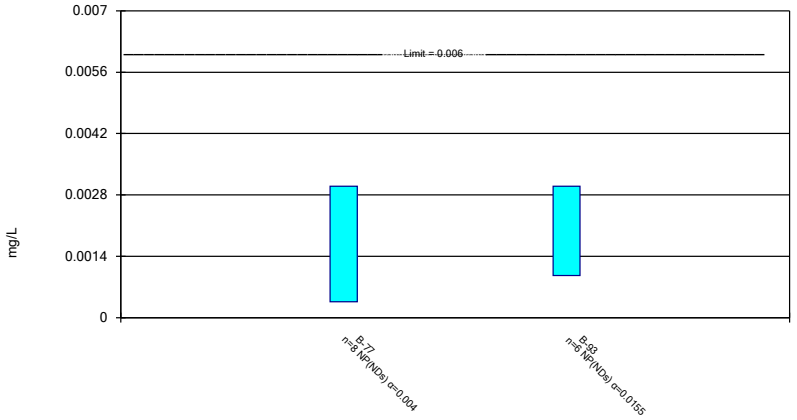
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

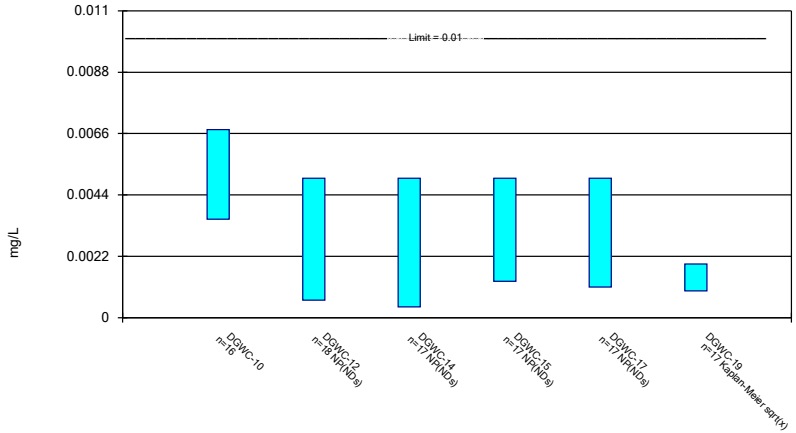
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

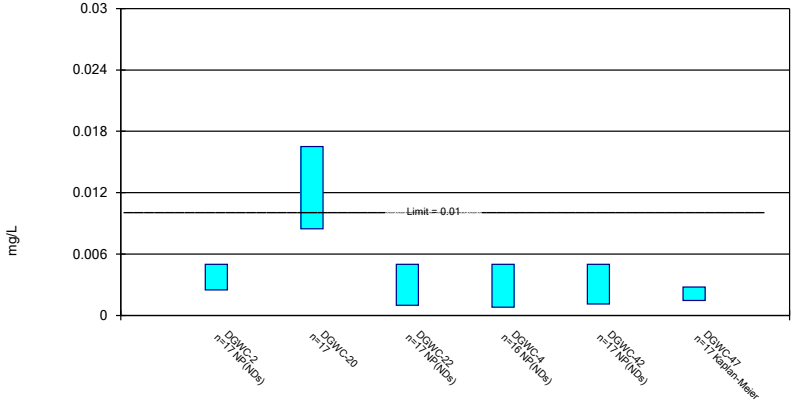
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

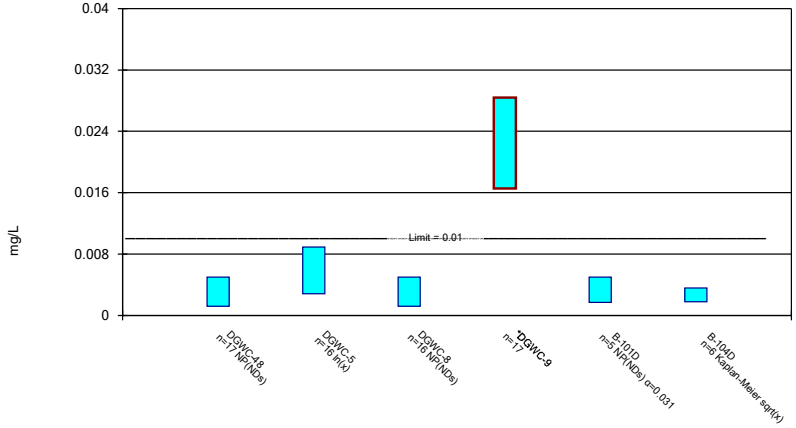
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

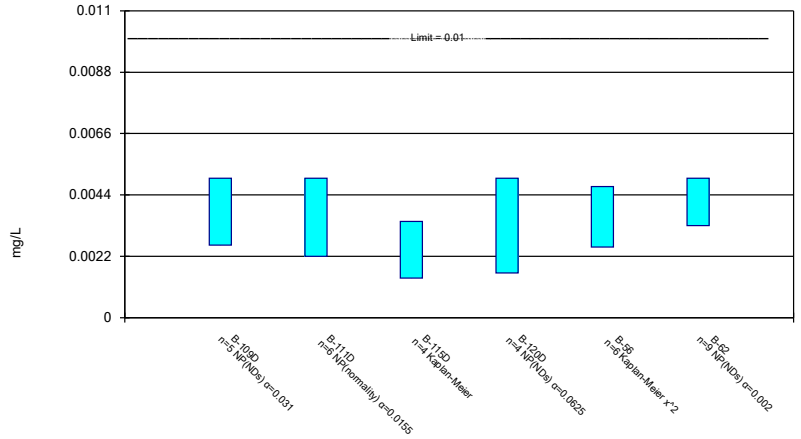
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

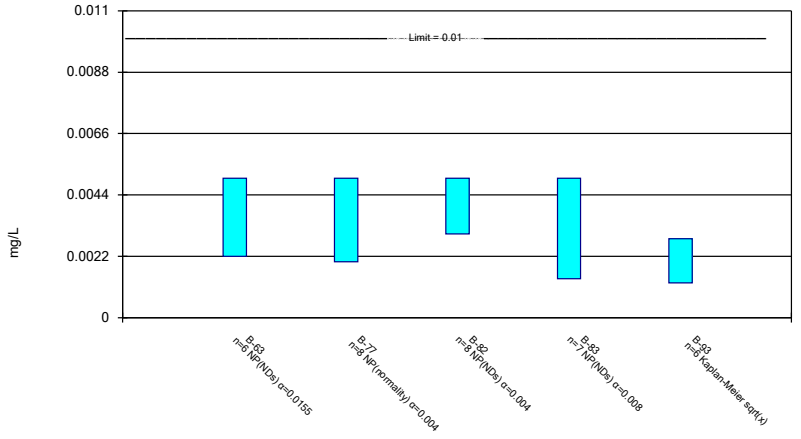


Constituent: Arsenic Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

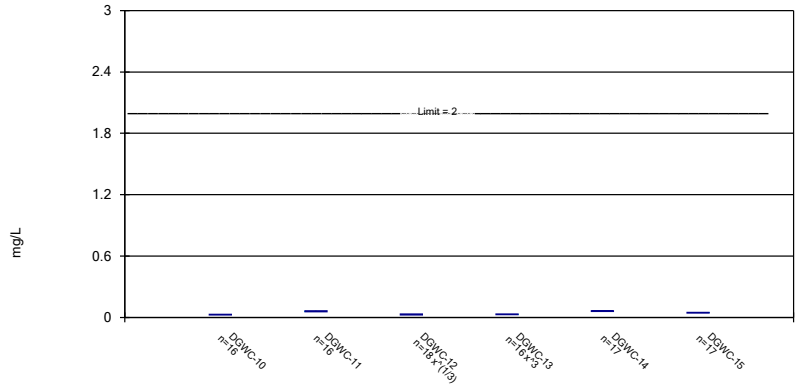


Constituent: Arsenic Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

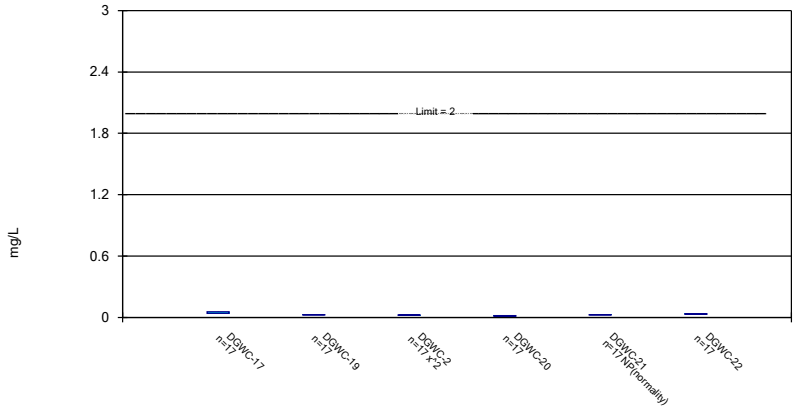


Constituent: Barium Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

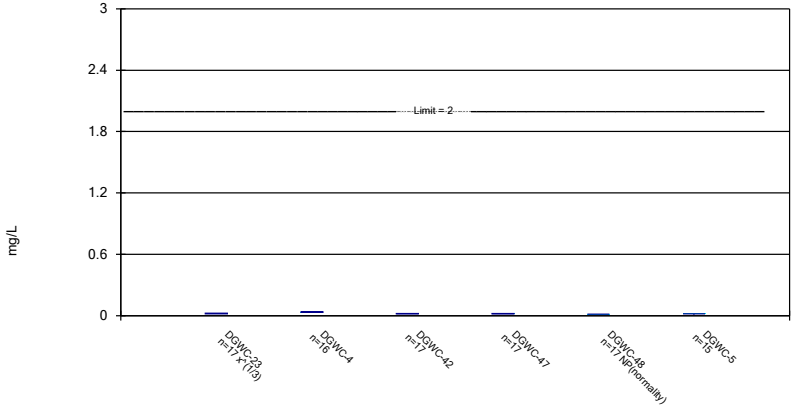
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/22/2022 9:37 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough 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.

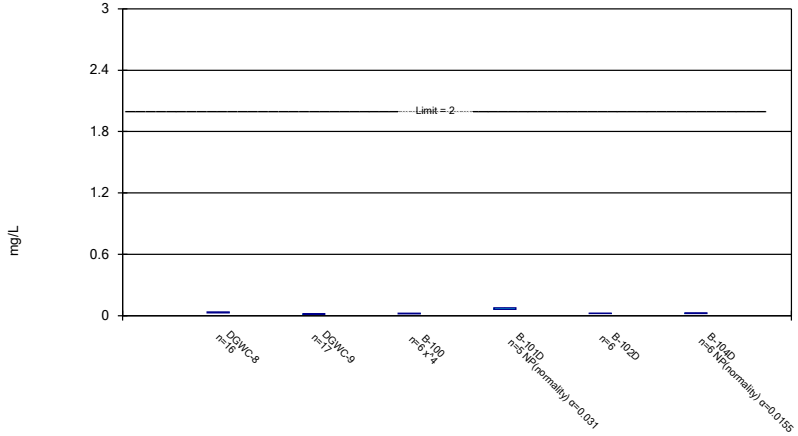


Constituent: Barium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

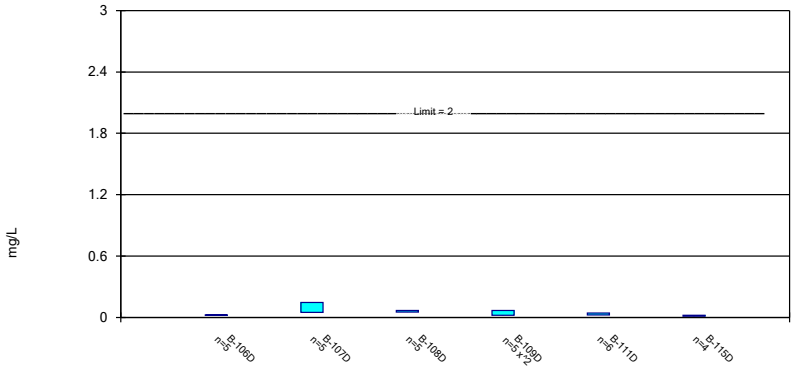


Constituent: Barium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

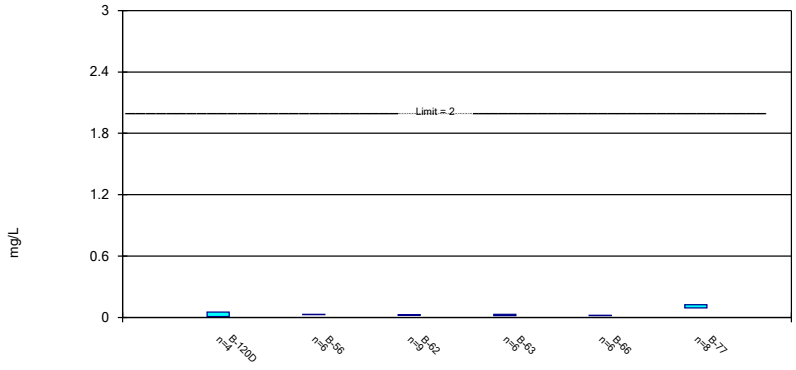


Constituent: Barium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric Confidence Interval

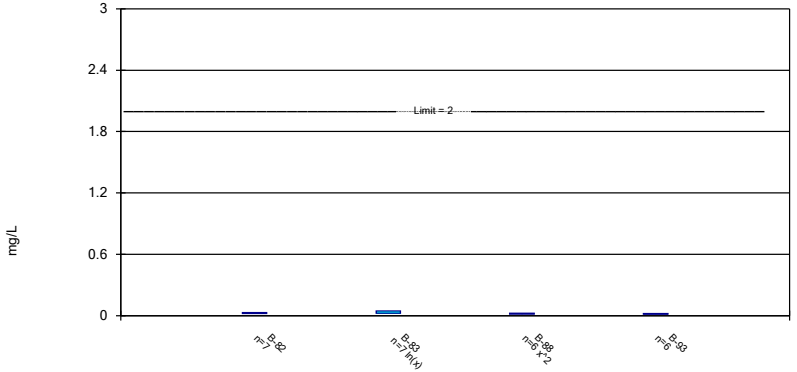
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

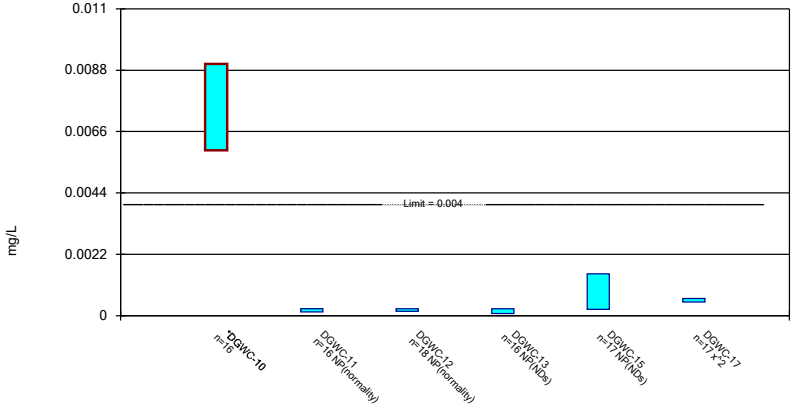
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

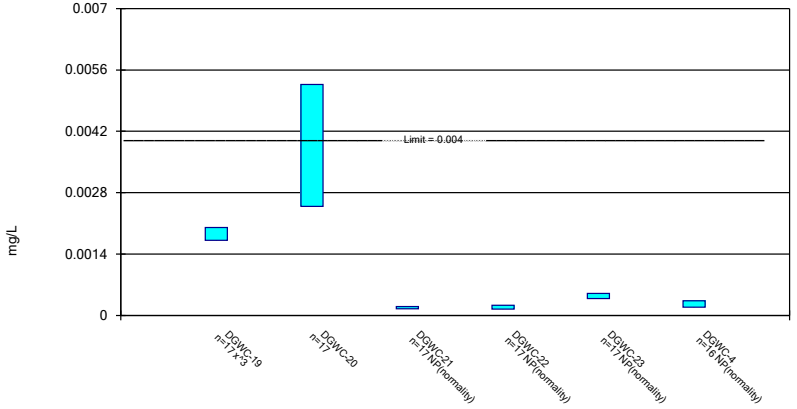
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

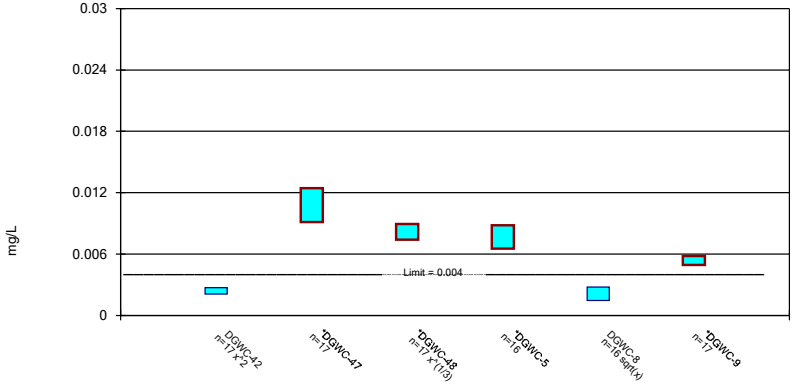
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

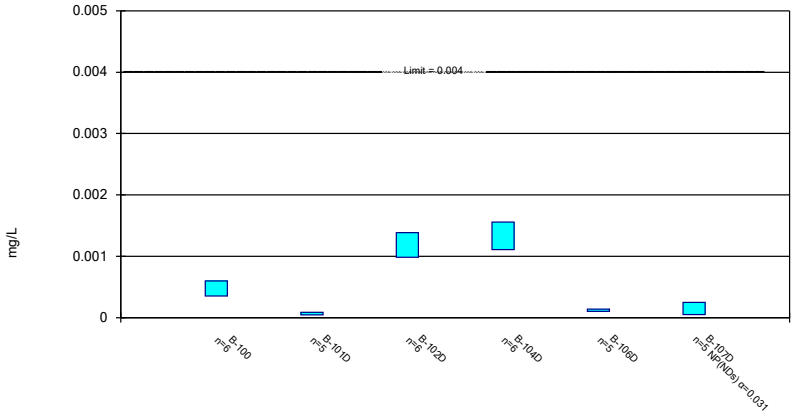
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

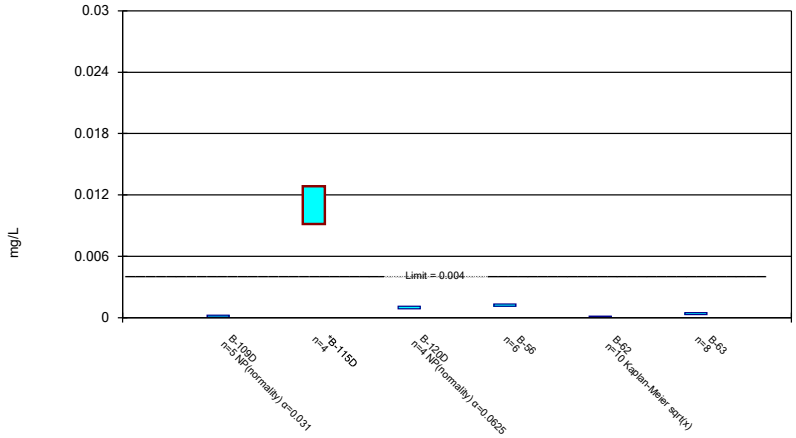
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

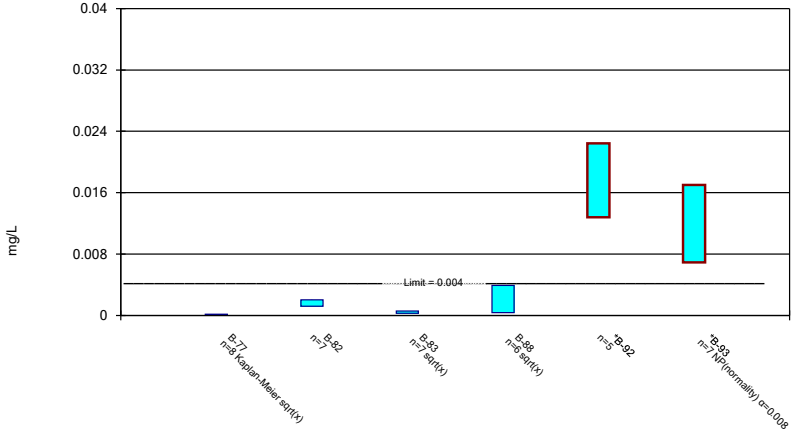
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

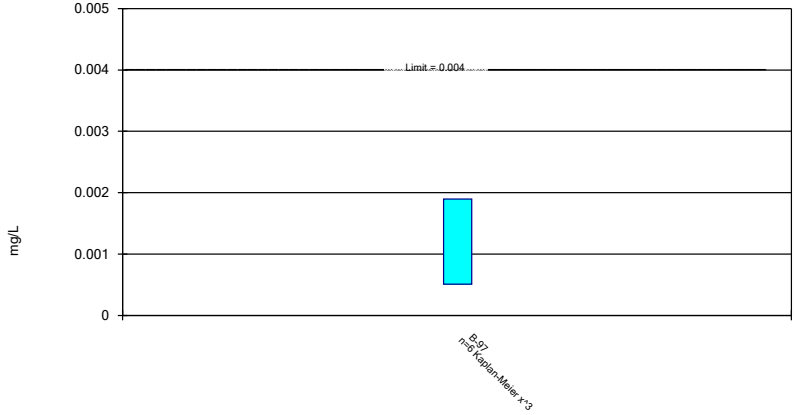
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

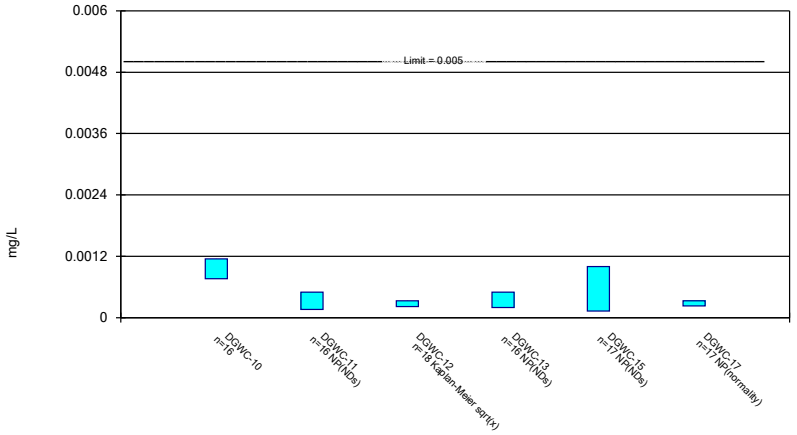
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough 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.

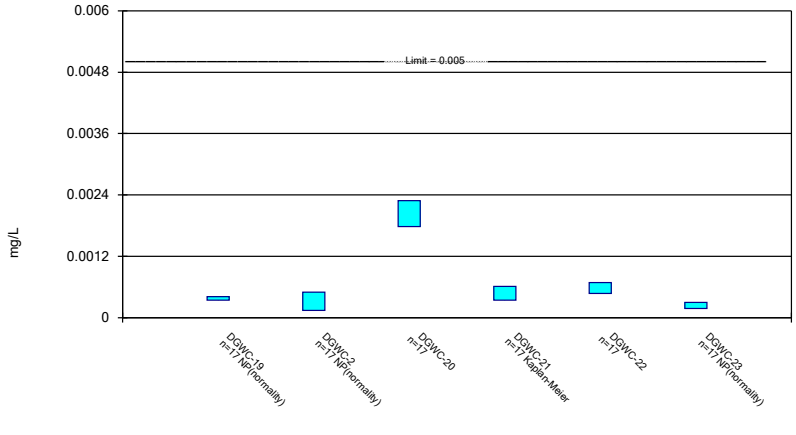


Constituent: Cadmium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

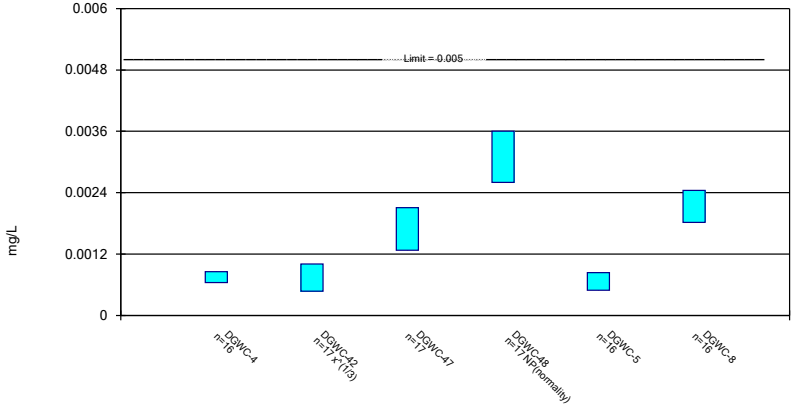


Constituent: Cadmium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

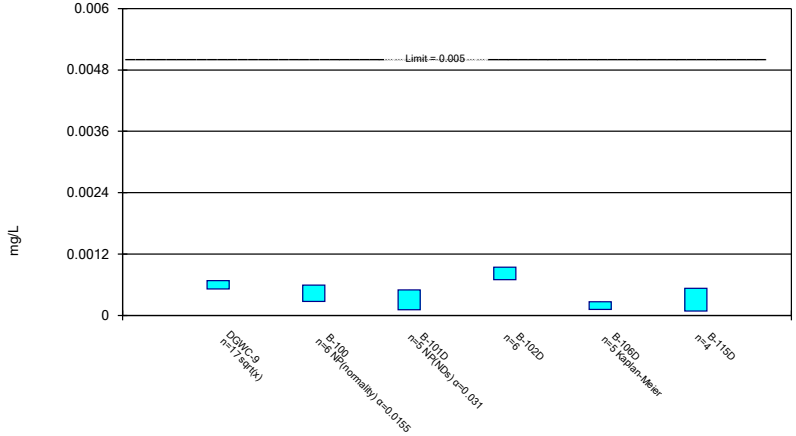


Constituent: Cadmium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

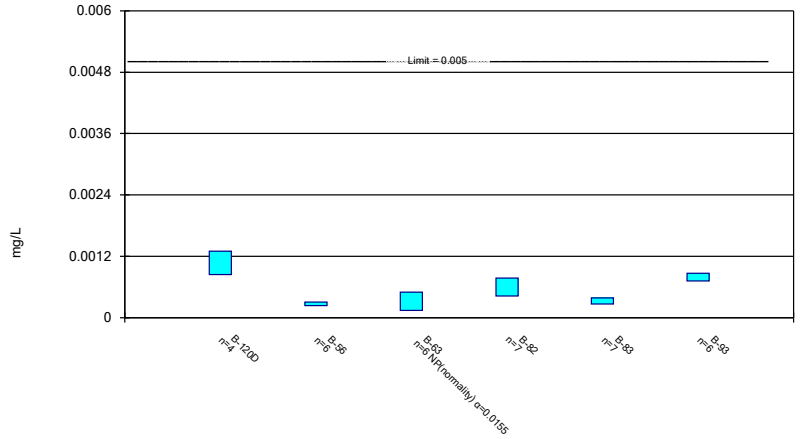
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

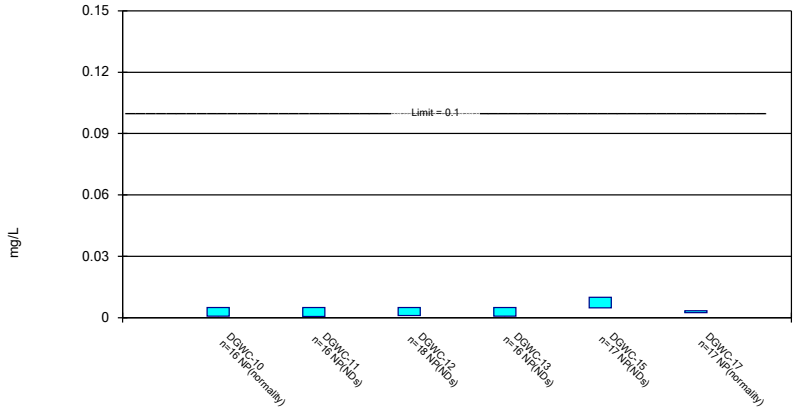
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

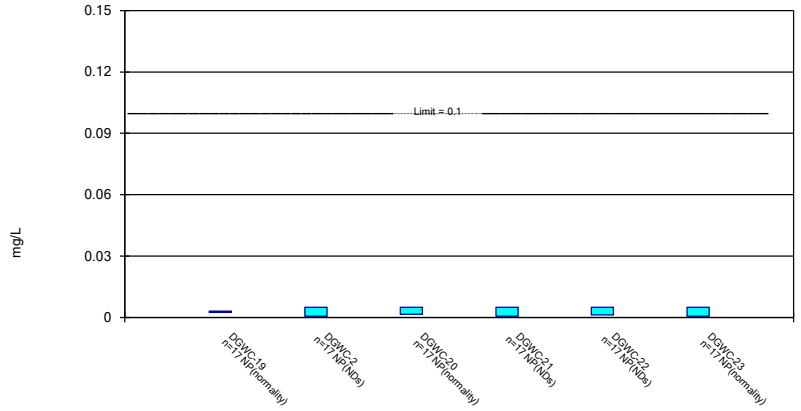
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

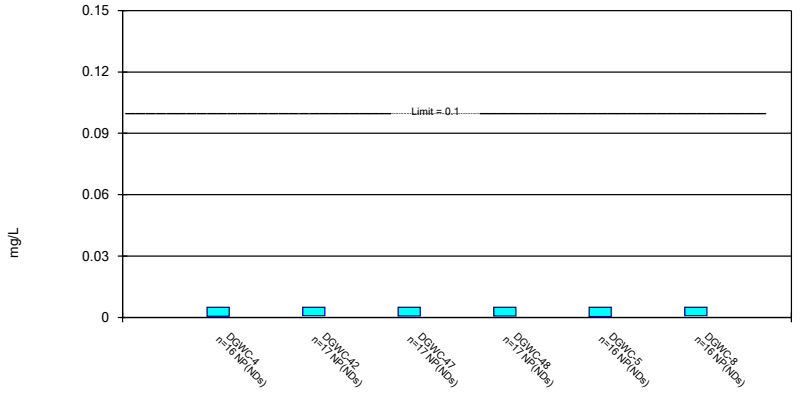
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

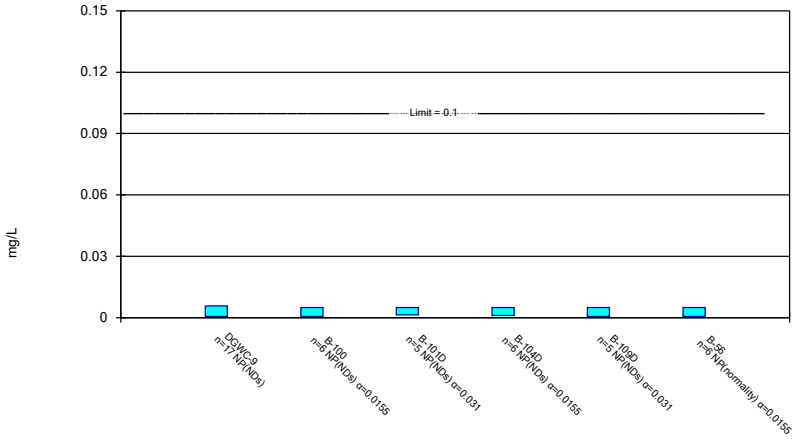
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

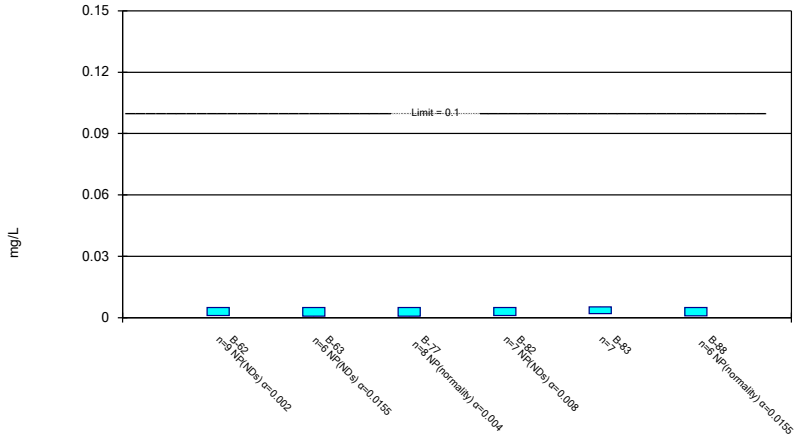
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

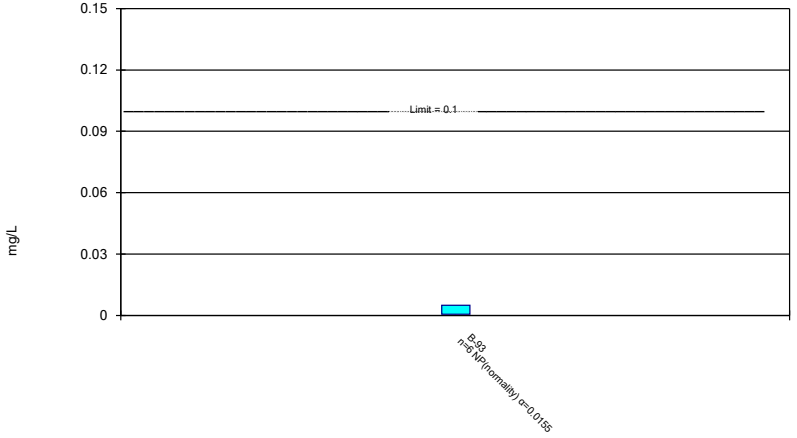
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

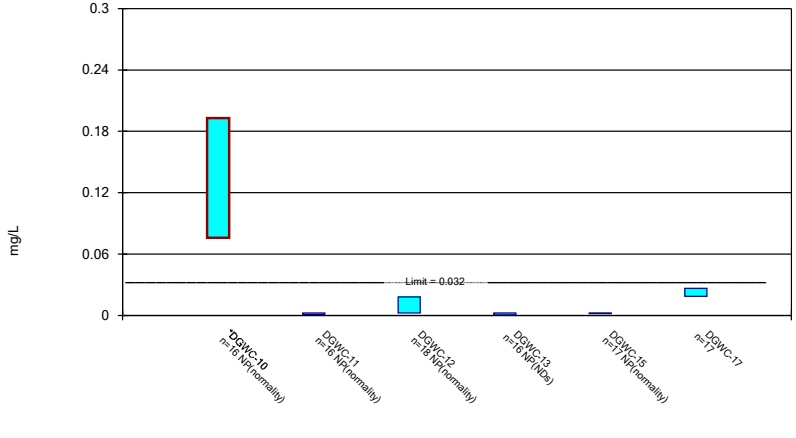
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

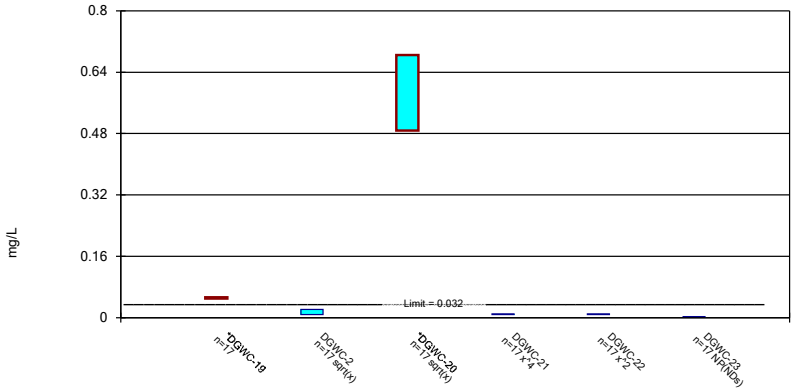
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough 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.

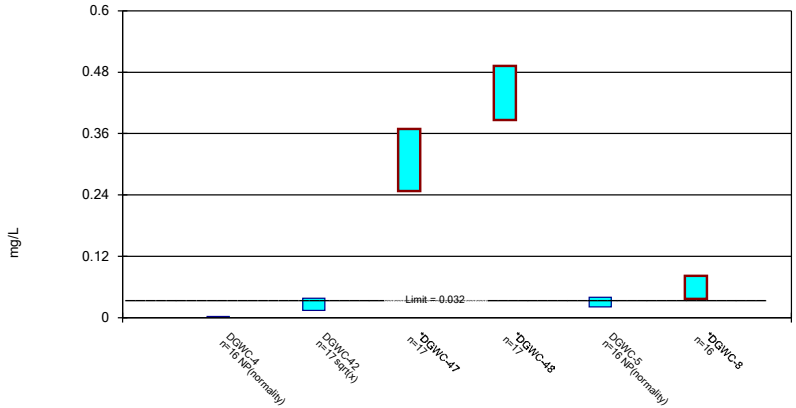


Constituent: Cobalt Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

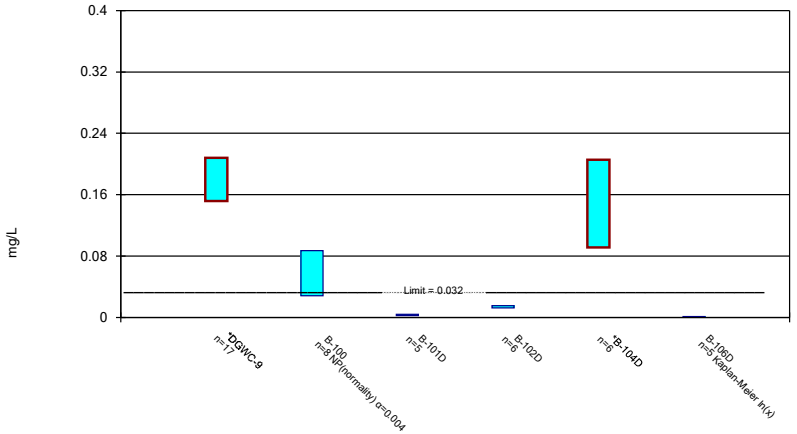


Constituent: Cobalt Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

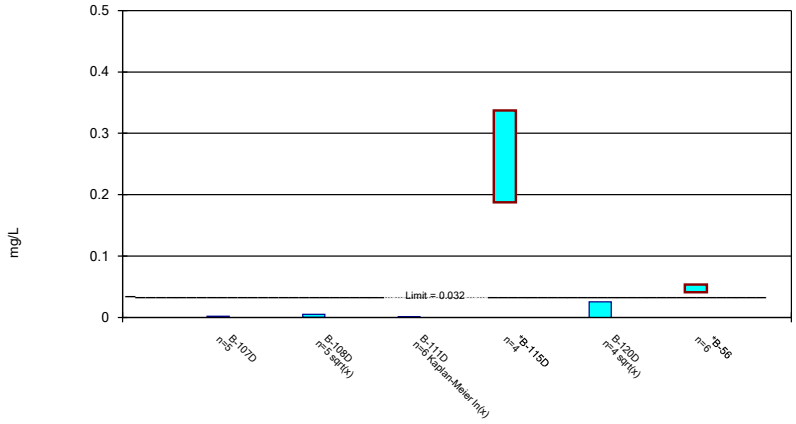


Constituent: Cobalt Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric Confidence Interval

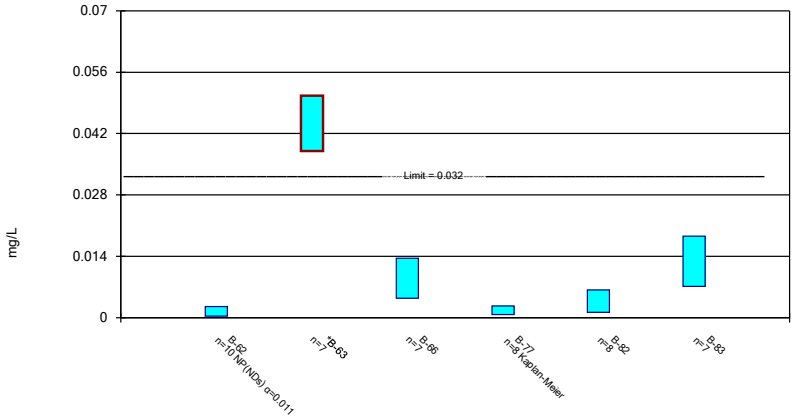
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

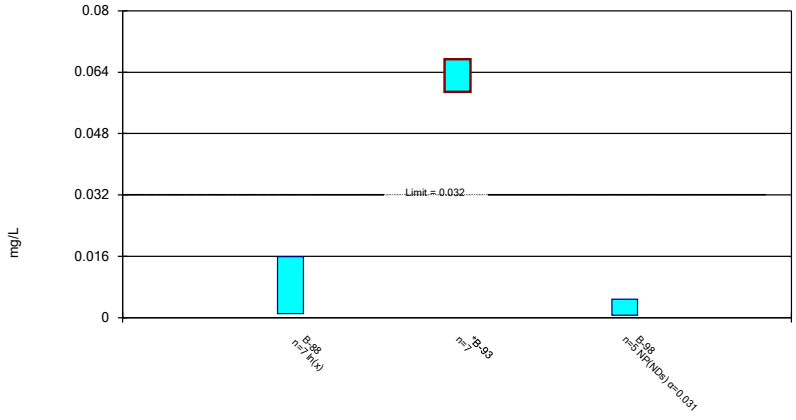


Constituent: Cobalt Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

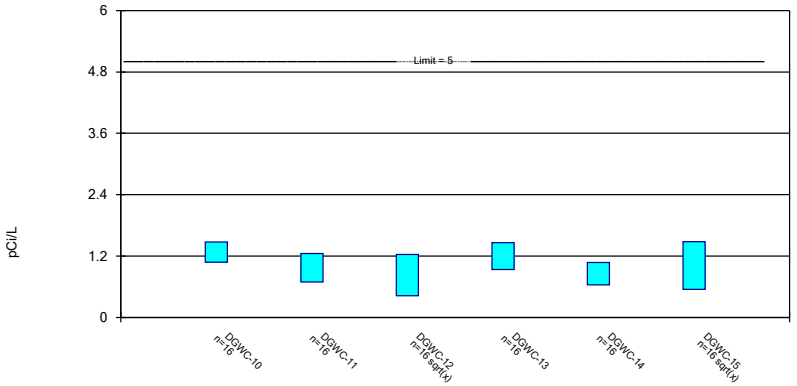


Constituent: Cobalt Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

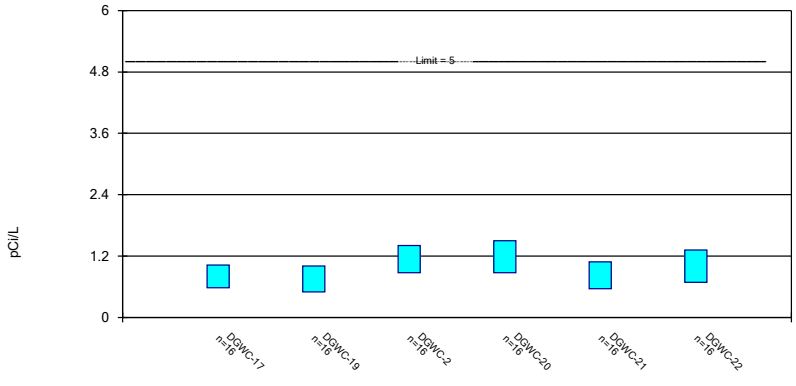


Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Int
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric Confidence Interval

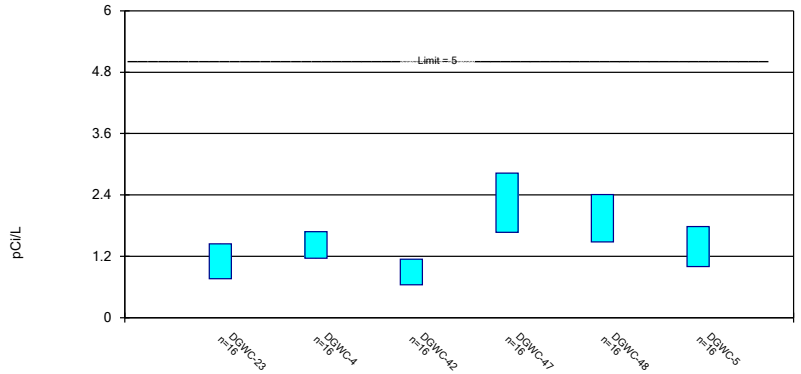
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Int
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

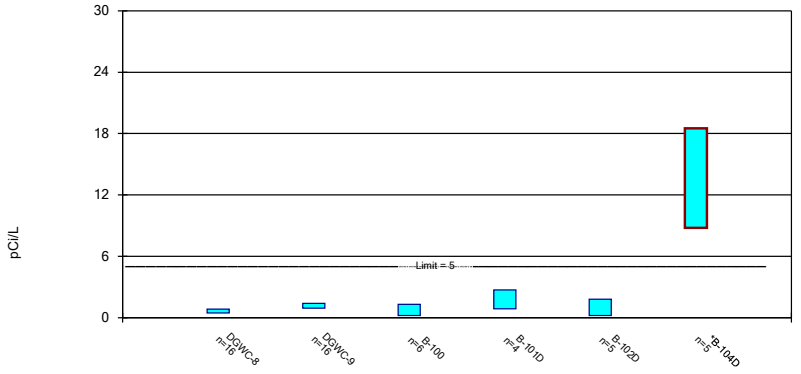
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 9:38 AM View: AP 234 Confidence Int
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

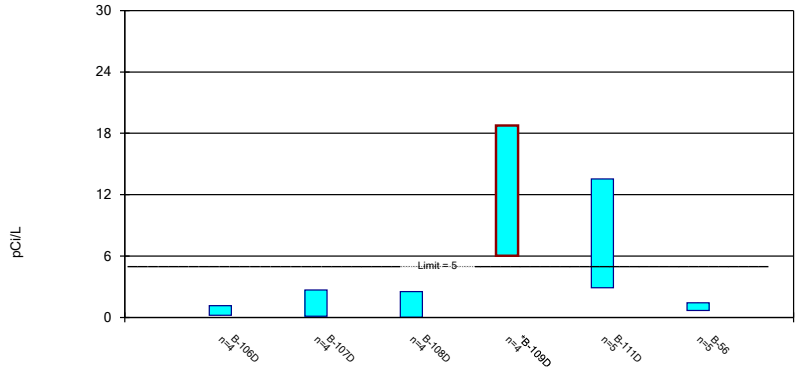
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Int
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

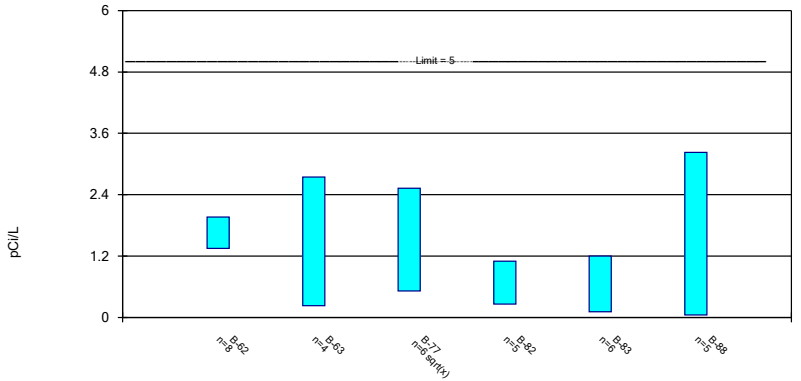
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Int
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

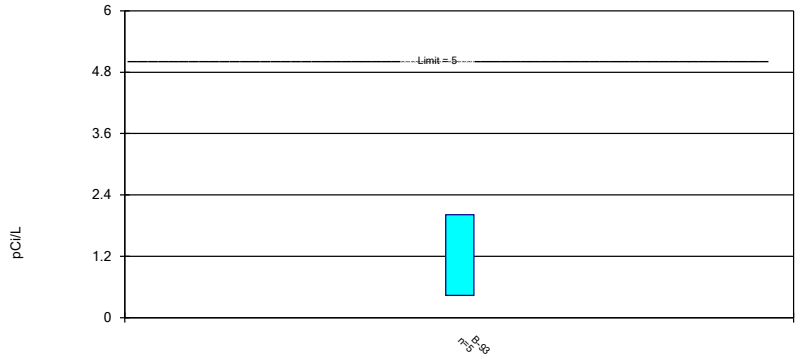
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Int
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

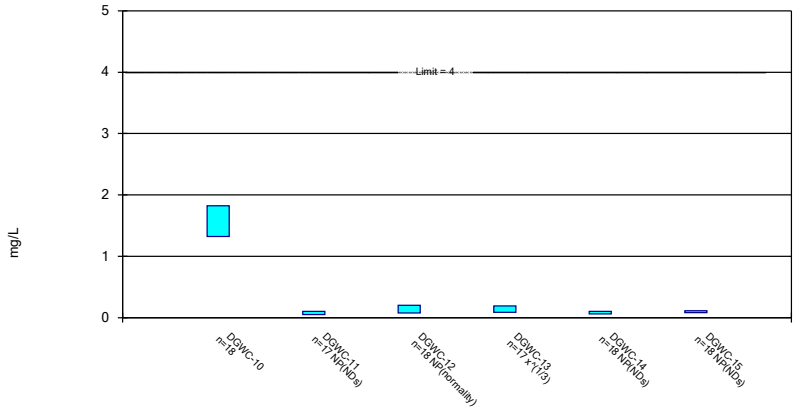
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Int
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

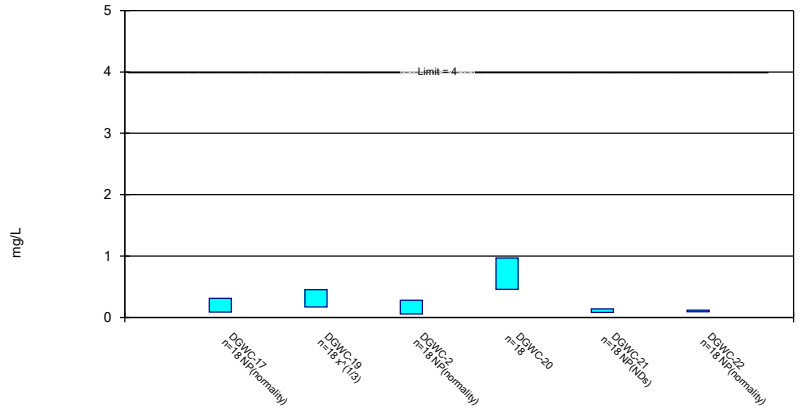
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

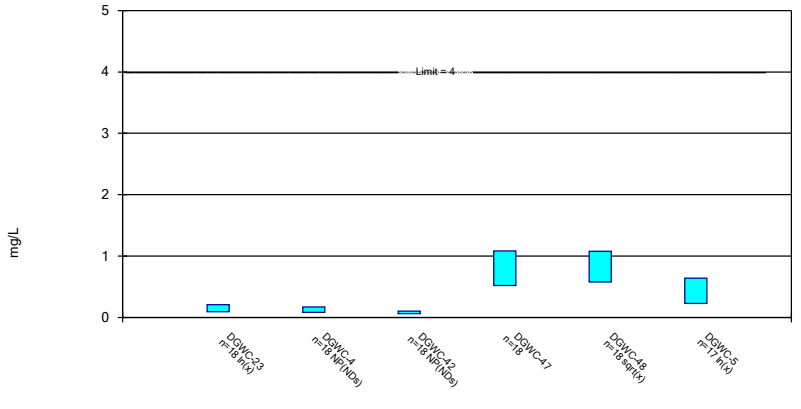
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

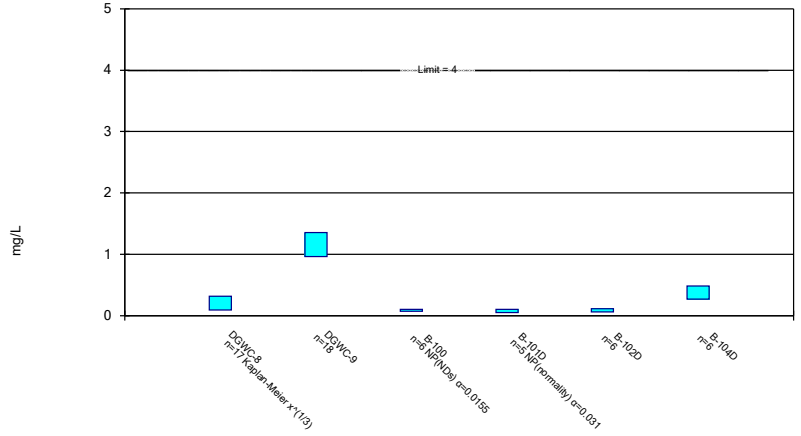
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

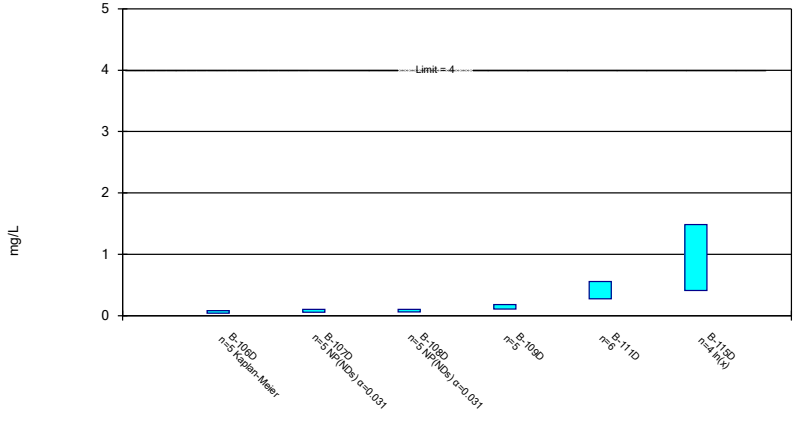


Constituent: Fluoride, total Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

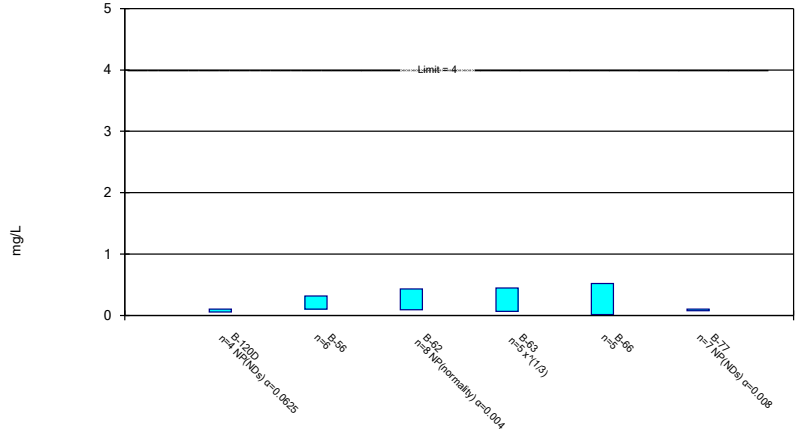


Constituent: Fluoride, total Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

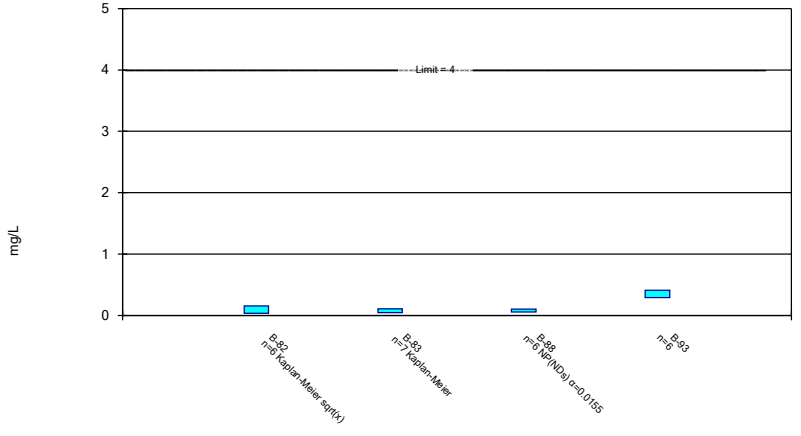


Constituent: Fluoride, total Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

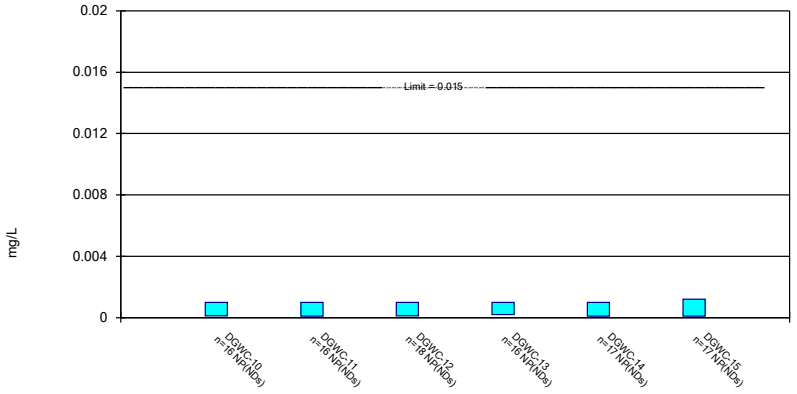
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

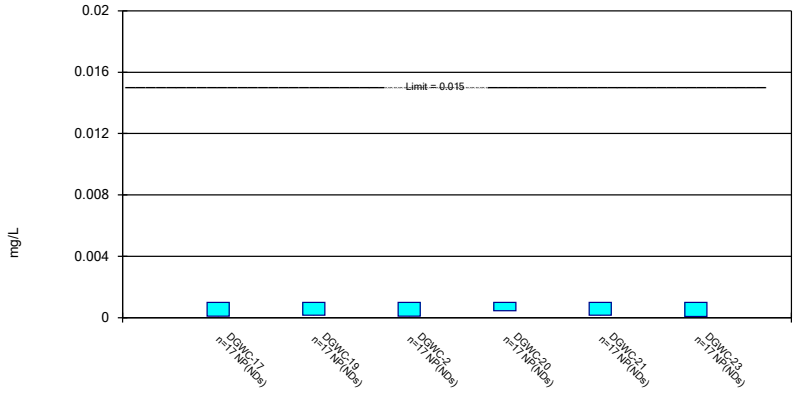


Constituent: Lead Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

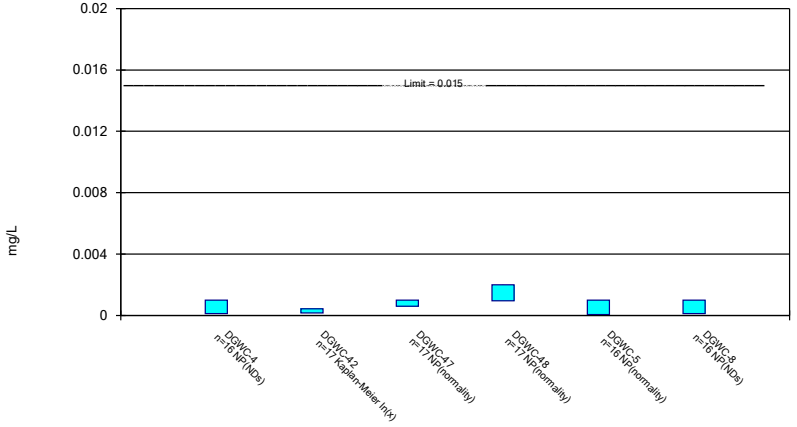


Constituent: Lead Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

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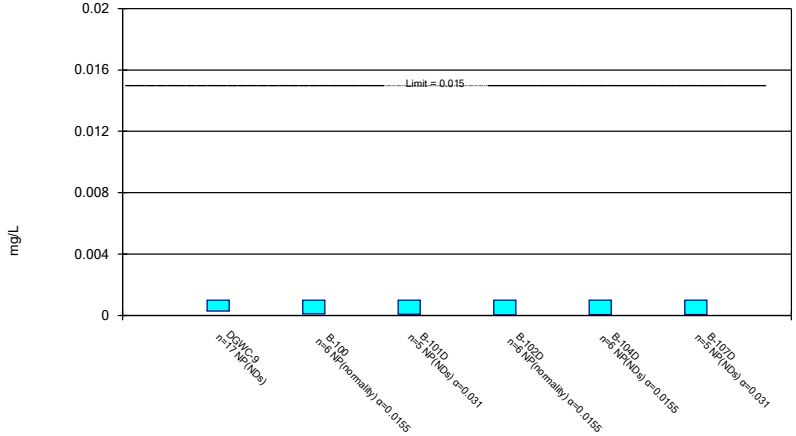
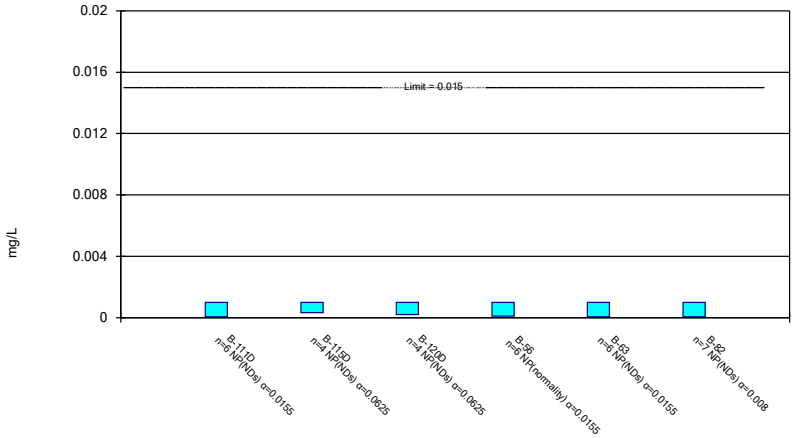


Constituent: Lead Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

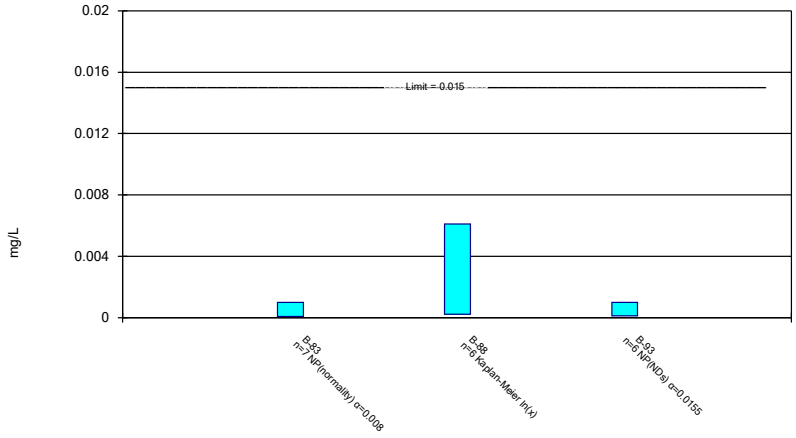


Constituent: Lead Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

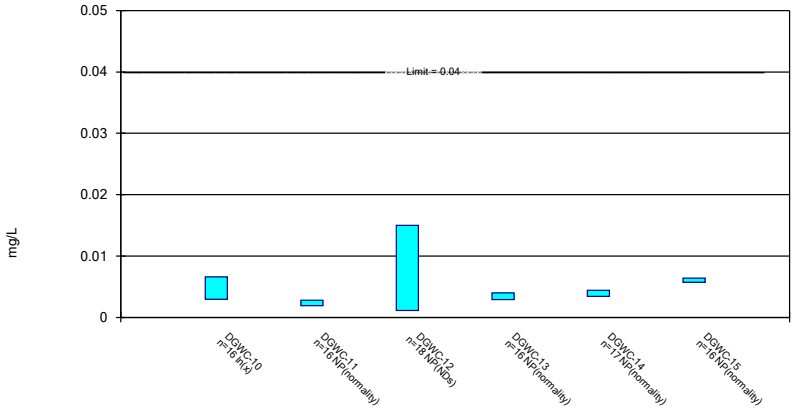


Constituent: Lead Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

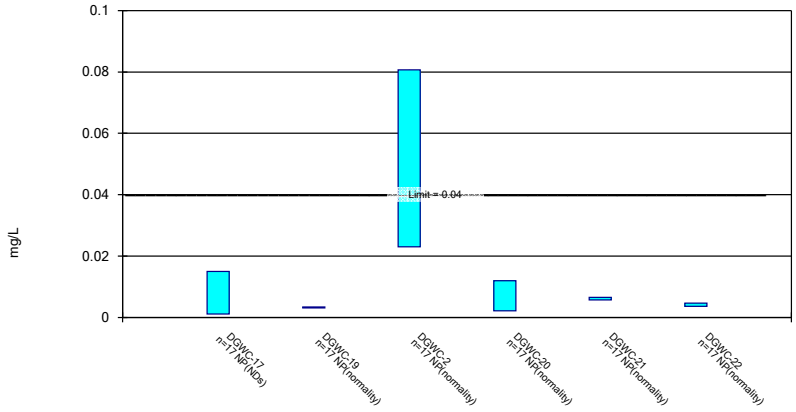


Constituent: Lithium Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

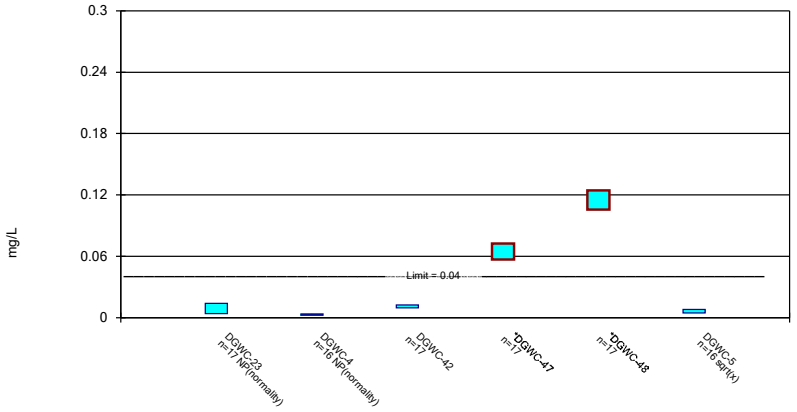
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lithium Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough 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.

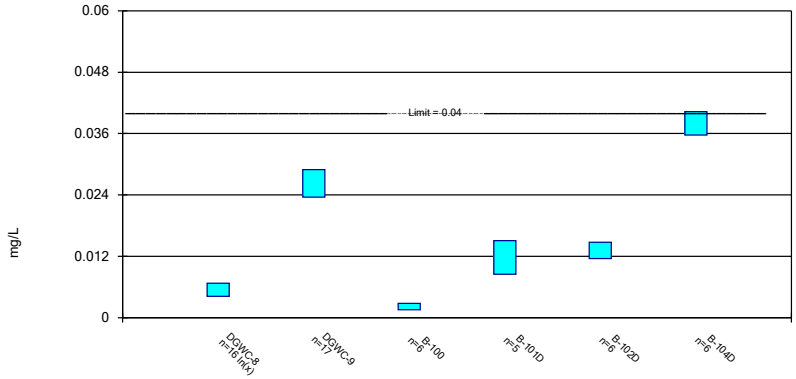


Constituent: Lithium Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

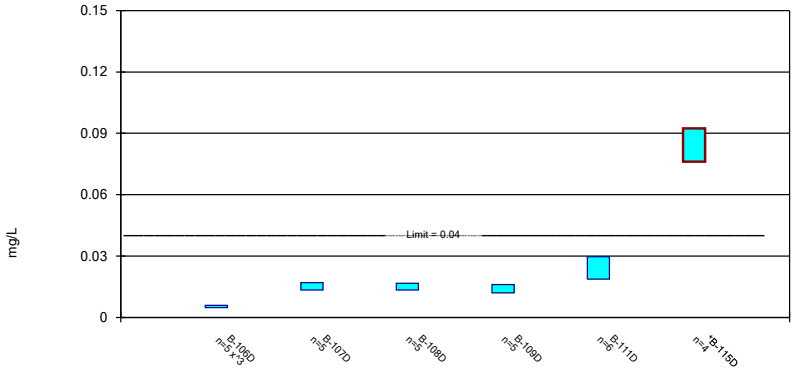


Constituent: Lithium Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

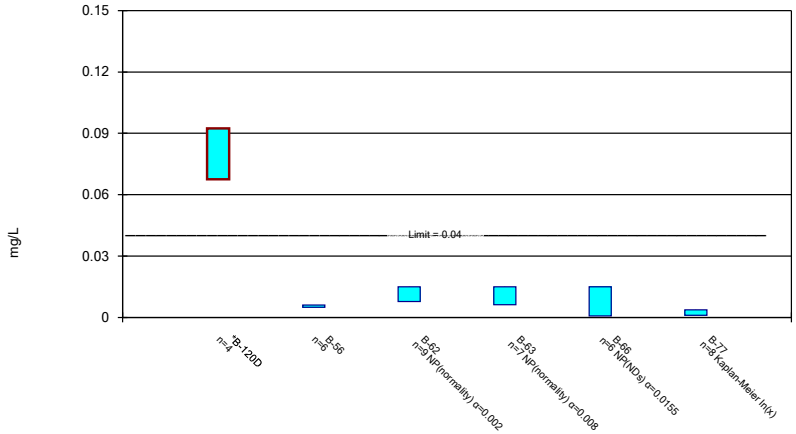


Constituent: Lithium Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

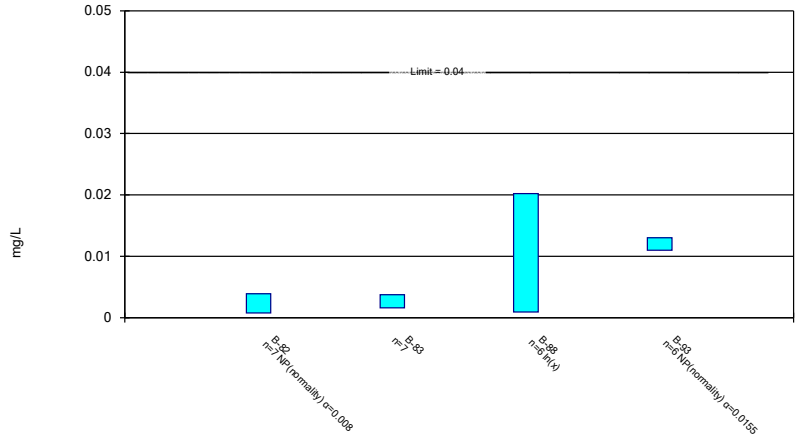
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

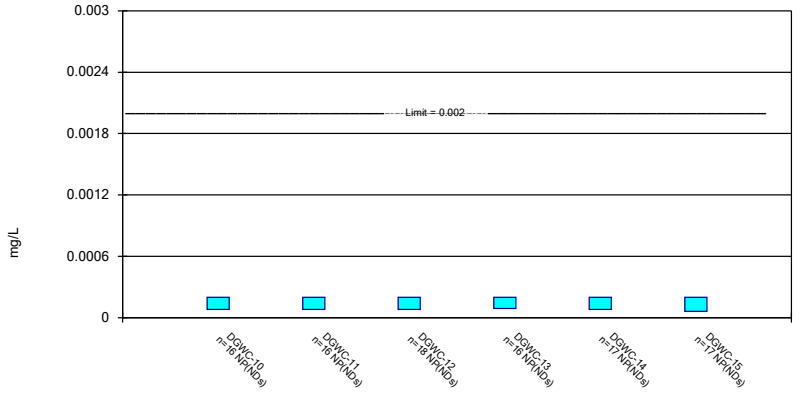
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

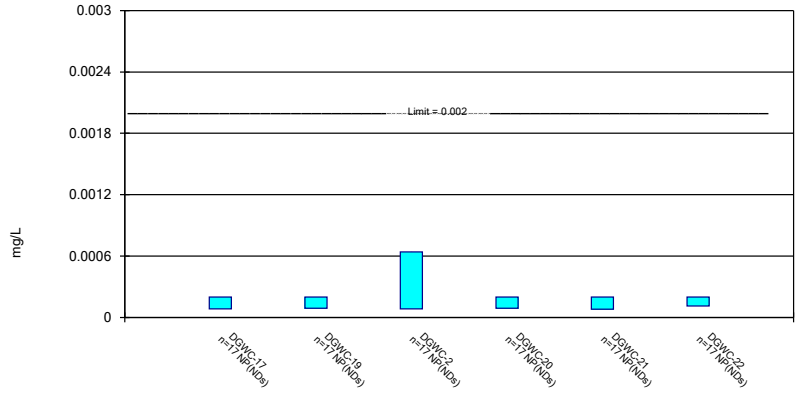
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

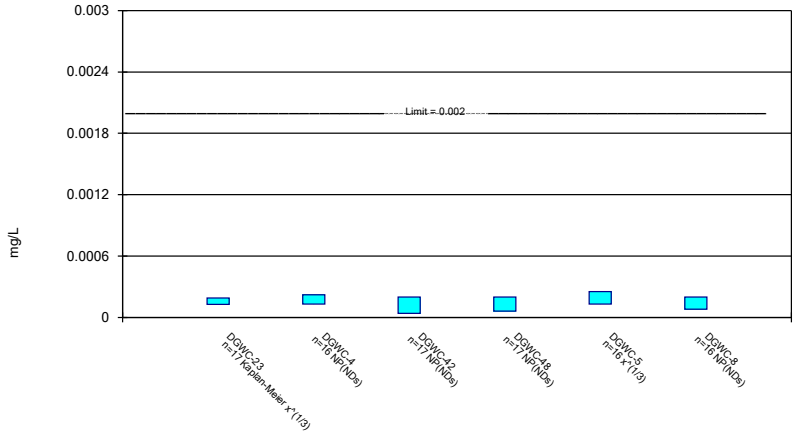
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

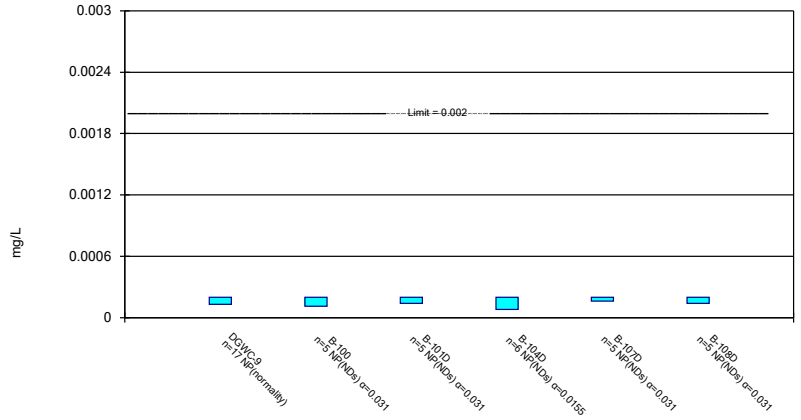
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

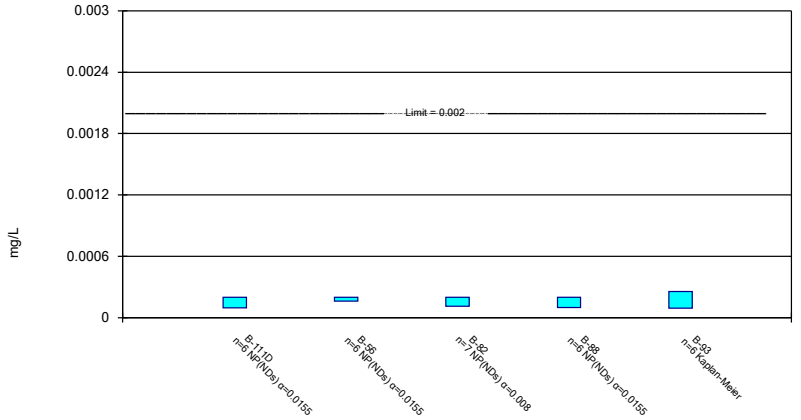
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

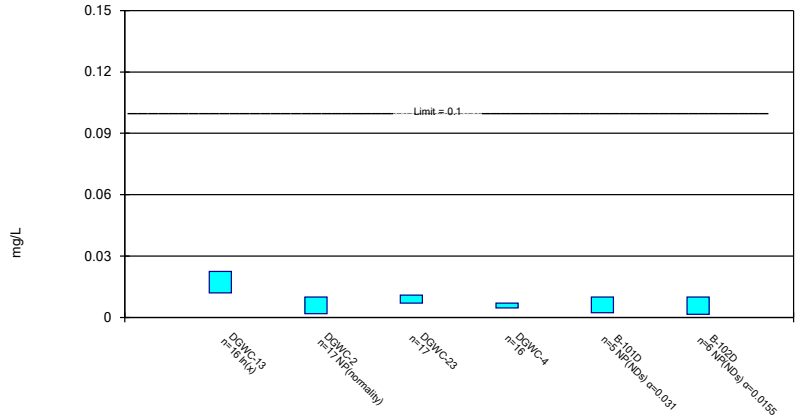
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

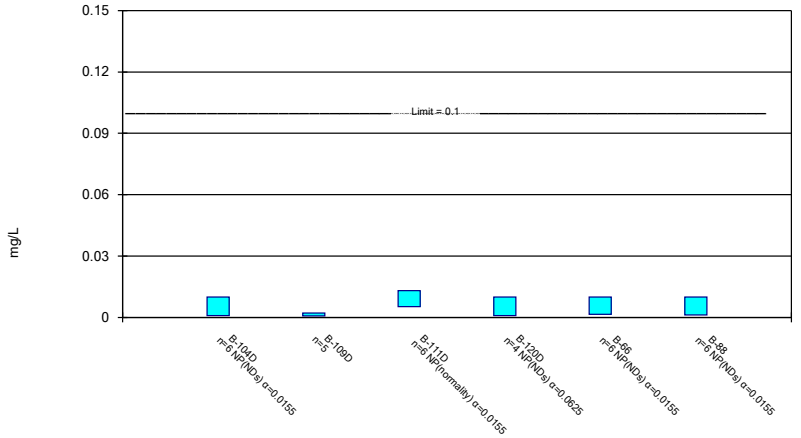
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

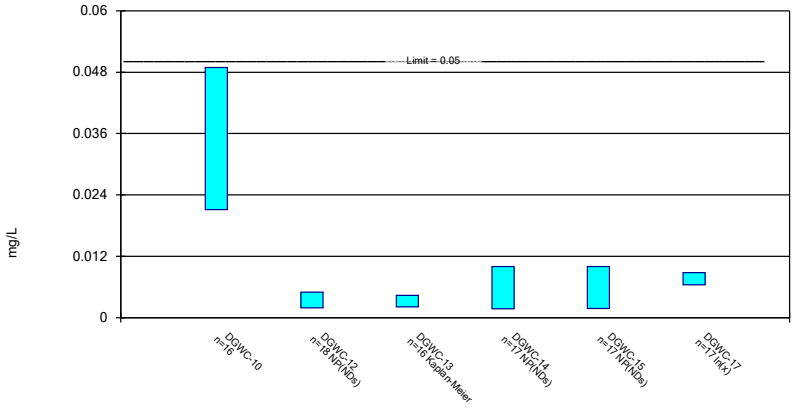
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough 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.

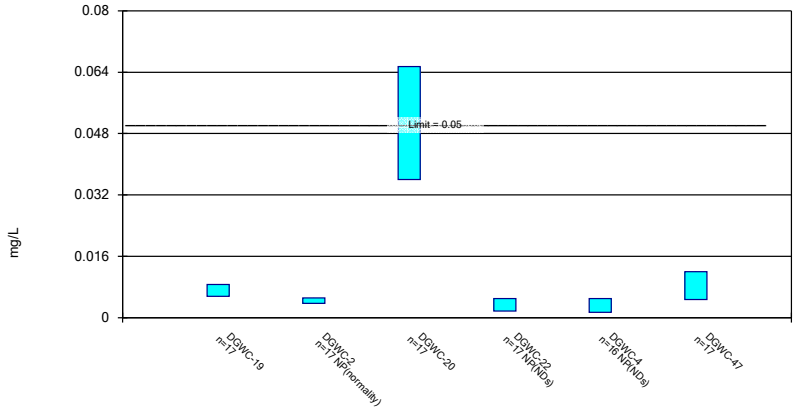


Constituent: Selenium Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

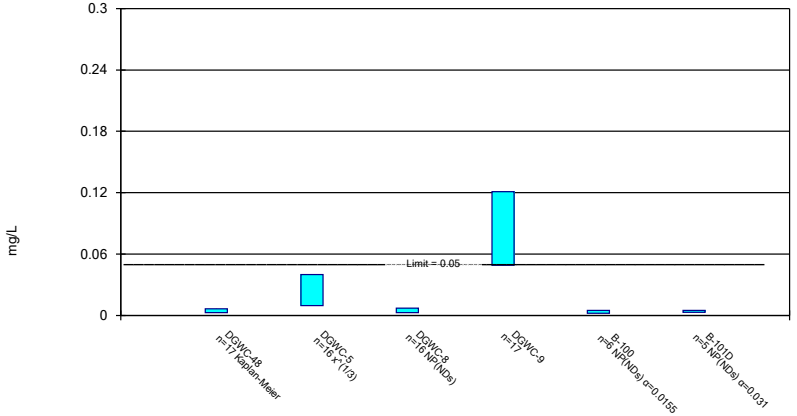


Constituent: Selenium Analysis Run 11/22/2022 9:39 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

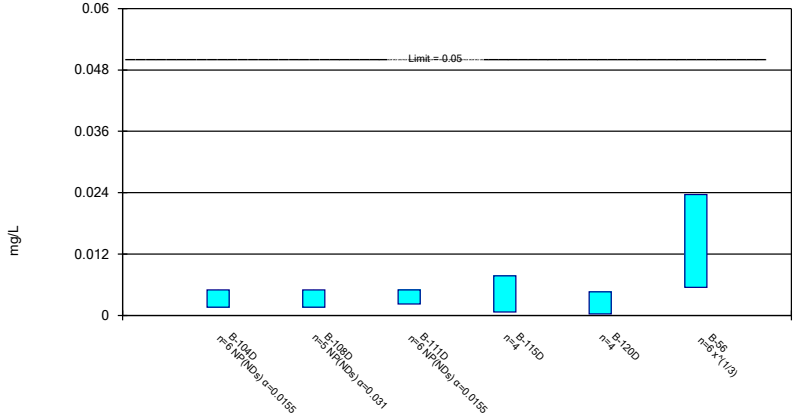


Constituent: Selenium Analysis Run 11/22/2022 9:40 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

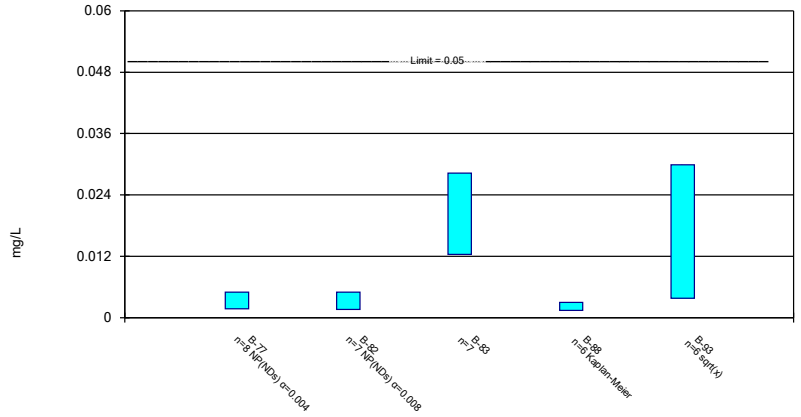
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/22/2022 9:40 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

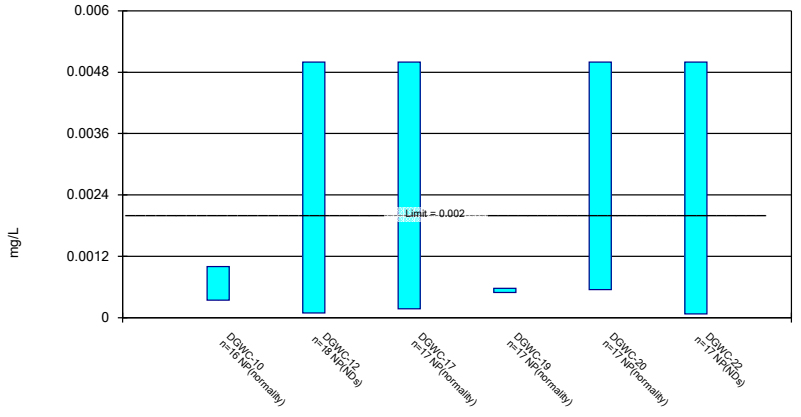
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/22/2022 9:40 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

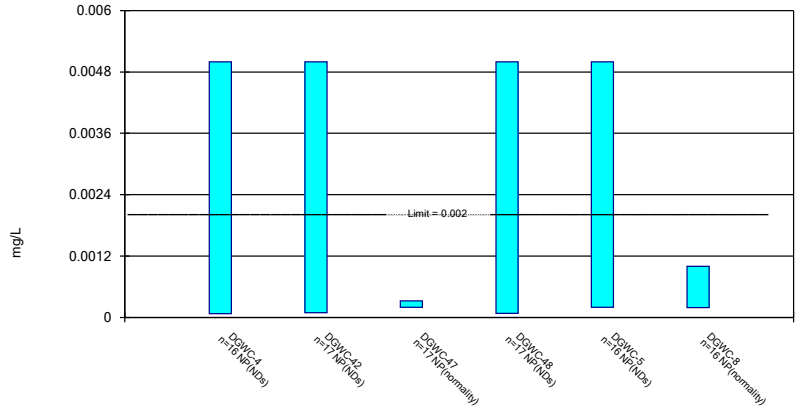
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 11/22/2022 9:40 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

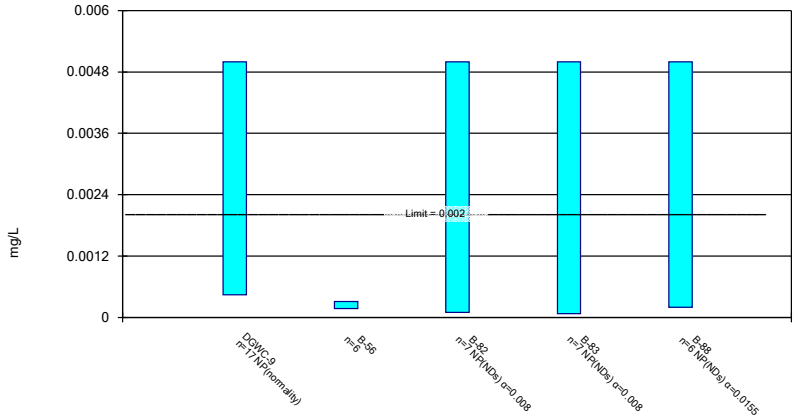
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 11/22/2022 9:40 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 11/22/2022 9:40 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-12	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016	<0.003		<0.003			
9/1/2016		<0.003				<0.003
9/6/2016				<0.003		
9/7/2016					<0.003	
12/6/2016	<0.003		<0.003			
12/7/2016		<0.003		<0.003		<0.003
12/8/2016					<0.003	
3/29/2017	<0.003	<0.003	<0.003			<0.003
3/30/2017				<0.003	<0.003	
7/12/2017	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
10/24/2017	<0.003					
10/25/2017		<0.003	<0.003	<0.003	<0.003	<0.003
2/27/2018	<0.003	<0.003	<0.003			
2/28/2018				<0.003	<0.003	<0.003
7/11/2018		<0.003	<0.003	<0.003	<0.003	<0.003
11/6/2018	<0.003					
11/7/2018		<0.003	<0.003	<0.003	<0.003	<0.003
8/27/2019	<0.003	<0.003	<0.003		<0.003	
8/28/2019				0.00033 (J)		<0.003
9/17/2019		<0.003				
10/15/2019	<0.003	<0.003				
10/16/2019			<0.003			<0.003
10/17/2019				<0.003		
10/18/2019					<0.003	
3/2/2020		0.0003 (J)				
3/3/2020	<0.003		<0.003	<0.003		<0.003
3/4/2020					<0.003	
8/11/2020	<0.003	<0.003	<0.003			<0.003
8/13/2020				0.00073 (J)		
8/14/2020					<0.003	
9/22/2020		<0.003	0.0011 (J)			0.00036 (J)
9/23/2020				<0.003		
9/24/2020	<0.003				0.00045 (J)	
3/2/2021			<0.003	<0.003		<0.003
3/3/2021		<0.003			<0.003	
3/4/2021	<0.003					
9/9/2021		<0.003	<0.003	<0.003		<0.003
9/10/2021	<0.003					
9/13/2021					<0.003	
1/24/2022				<0.003	<0.003	
1/25/2022		<0.003	<0.003			<0.003
1/26/2022	0.0021 (J)					
9/13/2022			<0.003	<0.003		
9/14/2022					<0.003	<0.003
9/15/2022	<0.003	<0.003				
Mean	0.002944	0.00285	0.002888	0.002709	0.00285	0.002845
Std. Dev.	0.000225	0.0006364	0.0004608	0.0008233	0.0006185	0.0006403
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0021	0.0003	0.0011	0.00073	0.00045	0.00036

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-21	DGWC-23	DGWC-4	DGWC-47	DGWC-48
9/1/2016					<0.003	<0.003
9/2/2016		<0.003				
12/8/2016		<0.003			<0.003	<0.003
3/28/2017				<0.003		
3/30/2017	<0.003	<0.003	<0.003			<0.003
3/31/2017					<0.003	
5/11/2017	<0.003					
5/12/2017			<0.003	<0.003		
6/15/2017	0.0006 (J)		0.0007 (J)	0.0008 (J)		
7/11/2017	<0.003			<0.003		
7/12/2017		<0.003	<0.003			
7/13/2017					<0.003	<0.003
10/24/2017	<0.003			<0.003		
10/25/2017		<0.003				
10/26/2017			<0.003		<0.003	<0.003
2/27/2018	<0.003			<0.003		
2/28/2018		<0.003				
3/1/2018			<0.003		<0.003	
3/2/2018						<0.003
7/11/2018	<0.003	0.0013 (J)				
7/12/2018			<0.003		<0.003	<0.003
11/6/2018	<0.003			<0.003		
11/7/2018		<0.003			<0.003	<0.003
11/8/2018			<0.003			
8/27/2019	<0.003			<0.003		
8/29/2019		<0.003	<0.003		<0.003	<0.003
10/15/2019				<0.003		
10/17/2019	<0.003	<0.003			<0.003	
10/18/2019			<0.003			<0.003
3/2/2020				0.00058 (J)		
3/3/2020	<0.003	<0.003				
3/4/2020			<0.003		<0.003	<0.003
8/11/2020	<0.003					
8/12/2020				<0.003	<0.003	
8/13/2020			<0.003			<0.003
8/14/2020		<0.003				
9/22/2020				<0.003		
9/23/2020	<0.003				0.0012 (J)	0.00039 (J)
9/24/2020		<0.003	<0.003			
3/1/2021				0.00049 (J)		
3/2/2021	<0.003					
3/3/2021		<0.003	<0.003		<0.003	<0.003
9/9/2021	<0.003	<0.003	<0.003			
9/10/2021				<0.003	<0.003	0.0018 (J)
1/20/2022	<0.003	<0.003	<0.003			
1/21/2022					<0.003	
1/24/2022				<0.003		<0.003
9/13/2022					<0.003	<0.003
9/15/2022		<0.003				
9/19/2022				<0.003		
9/20/2022	<0.003		<0.003			
Mean	0.002859	0.0029	0.002865	0.002554	0.002894	0.002776

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-21	DGWC-23	DGWC-4	DGWC-47	DGWC-48
Std. Dev.	0.0005821	0.0004123	0.0005578	0.0009598	0.0004366	0.00068
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0006	0.0013	0.0007	0.0008	0.0012	0.0018

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-5	DGWC-8	B-100	B-101D	B-102D	B-104D
8/30/2016		<0.003				
8/31/2016	<0.003					
12/6/2016	<0.003	<0.003				
3/28/2017	<0.003					
3/29/2017		<0.003				
7/11/2017	<0.003	<0.003				
10/24/2017		<0.003				
10/25/2017	<0.003					
2/27/2018	<0.003	<0.003				
11/6/2018	<0.003	<0.003				
8/27/2019	<0.003					
8/28/2019		<0.003				
10/16/2019	<0.003	<0.003				
3/2/2020	0.00032 (J)					
3/3/2020		<0.003				
8/12/2020	<0.003	<0.003				
8/17/2020			0.0013 (J)			
9/22/2020	<0.003					
9/23/2020		<0.003				
9/25/2020			<0.003			
12/9/2020						0.00079 (J)
12/17/2020					0.0016 (J)	
1/11/2021					<0.003	
1/12/2021				0.00039 (J)		0.00048 (J)
3/2/2021	0.0015 (J)	0.00046 (J)				
3/4/2021					<0.003	0.00077 (J)
3/5/2021				0.0019 (J)		
3/8/2021			0.0017 (J)			
9/10/2021	<0.003				<0.003	
9/13/2021		<0.003	<0.003	0.001 (J)		
9/14/2021						<0.003
1/21/2022			<0.003			
1/24/2022	<0.003					0.001 (J)
1/25/2022		<0.003				
1/26/2022				0.00082 (J)		
1/27/2022					<0.003	
9/8/2022			<0.003			
9/13/2022						<0.003
9/14/2022	<0.003					
9/15/2022		<0.003			<0.003	
9/16/2022				<0.003		
Mean	0.002739	0.002841	0.0025	0.001422	0.002767	0.001507
Std. Dev.	0.0007457	0.000635	0.0007849	0.00104	0.0005715	0.001169
Upper Lim.	0.003	0.003	0.003	0.00195	0.003	0.00106
Lower Lim.	0.0015	0.00046	0.0013	0.0001053	0.0016	0.0005099

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-106D	B-111D	B-120D	B-56	B-62	B-63
1/28/2019						<0.003
1/30/2019					<0.003	
9/11/2019					<0.003	<0.003
10/21/2019					<0.003	
10/22/2019						0.00066 (J)
8/13/2020					<0.003	
8/17/2020				<0.003		
9/24/2020					0.00046 (J)	
9/28/2020				<0.003		
12/9/2020		<0.003				
12/17/2020	0.00048 (J)					
1/12/2021		<0.003				
3/3/2021				<0.003		
3/4/2021	<0.003					
3/5/2021		0.0006 (J)				
3/12/2021					<0.003	
4/15/2021			0.00029 (J)			
9/9/2021					<0.003	
9/13/2021	<0.003			<0.003		
9/14/2021		<0.003	<0.003			<0.003
1/20/2022			<0.003		<0.003	<0.003
1/24/2022		<0.003				
1/25/2022	<0.003					
1/27/2022				0.0011 (J)		
9/8/2022					<0.003	
9/14/2022		<0.003				<0.003
9/16/2022	<0.003			<0.003		
9/19/2022			<0.003			
Mean	0.002496	0.0026	0.002323	0.002683	0.002718	0.00261
Std. Dev.	0.001127	0.0009798	0.001355	0.0007757	0.0008467	0.0009553
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.00048	0.0006	0.00029	0.0011	0.00046	0.00066

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-77	B-93
9/18/2019	<0.003	
10/24/2019	<0.003	
8/13/2020	0.00043 (J)	
8/19/2020		<0.003
9/24/2020	0.00036 (J)	
9/28/2020		0.0014 (J)
3/4/2021	0.00063 (J)	
3/9/2021		<0.003
9/14/2021	<0.003	
9/15/2021		<0.003
1/20/2022	<0.003	
1/26/2022		<0.003
9/12/2022		0.00096 (J)
9/13/2022	<0.003	
Mean	0.002053	0.002393
Std. Dev.	0.00131	0.0009501
Upper Lim.	0.003	0.003
Lower Lim.	0.00036	0.00096

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-12	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016	0.0058		<0.005			
9/1/2016		<0.005				0.0022 (J)
9/6/2016				<0.005		
9/7/2016					<0.005	
12/6/2016	0.0017 (J)		<0.005			
12/7/2016		<0.005		<0.005		<0.005
12/8/2016					<0.005	
3/29/2017	0.0055	<0.005	<0.005			0.002 (J)
3/30/2017				0.0006 (J)	0.0008 (J)	
7/12/2017	0.0042 (J)	<0.005	<0.005	<0.005	<0.005	0.0016 (J)
10/24/2017	0.0058					
10/25/2017		0.0006 (J)	<0.005	<0.005	0.0007 (J)	0.0022 (J)
2/27/2018	0.0105	<0.005	<0.005			
2/28/2018				<0.005	0.00073 (J)	0.0028 (J)
7/11/2018		<0.005	<0.005	<0.005	<0.005	0.0009 (J)
11/6/2018	<0.005 (J)					
11/7/2018		<0.005	<0.005	<0.005	<0.005	<0.005 (J)
8/27/2019	0.0024 (J)	<0.005	<0.005		<0.005	
8/28/2019				<0.005		0.00049 (J)
9/17/2019		<0.005				
10/15/2019	0.0078	0.00063 (J)				
10/16/2019			0.00039 (J)			0.00046 (J)
10/17/2019				0.00064 (J)		
10/18/2019					0.0012 (J)	
3/2/2020		<0.005				
3/3/2020	0.0025 (J)		<0.005	<0.005		<0.005
3/4/2020					0.0014 (J)	
8/11/2020	0.0028 (J)	<0.005	<0.005			0.0014 (J)
8/13/2020				0.0013 (J)		
8/14/2020					<0.005	
9/22/2020		<0.005	<0.005			0.0017 (J)
9/23/2020				<0.005		
9/24/2020	0.0078				0.0011 (J)	
3/2/2021			<0.005	<0.005		0.0013 (J)
3/3/2021		<0.005			<0.005	
3/4/2021	0.006					
9/9/2021		<0.005	<0.005	<0.005		0.0027 (J)
9/10/2021	0.0076					
9/13/2021					<0.005	
1/24/2022				<0.005	0.0014 (J)	
1/25/2022		<0.005	<0.005			0.0014 (J)
1/26/2022	0.0043 (J)					
9/13/2022			<0.005	<0.005		
9/14/2022					<0.005	<0.005
9/15/2022	0.0024 (J)	<0.005				
Mean	0.005131	0.004513	0.004729	0.004267	0.003372	0.002421
Std. Dev.	0.002471	0.001418	0.001118	0.001638	0.002014	0.001611
Upper Lim.	0.006739	0.005	0.005	0.005	0.005	0.00192
Lower Lim.	0.003524	0.00063	0.00039	0.0013	0.0011	0.0009543

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-22	DGWC-4	DGWC-42	DGWC-47
9/1/2016						0.0037 (J)
9/2/2016		0.0159	<0.005			
9/7/2016					<0.005	
12/7/2016		0.0037 (J)				
12/8/2016			<0.005		<0.005	0.0032 (J)
3/28/2017				0.0005 (J)		
3/29/2017		0.015	<0.005			
3/30/2017	<0.005					
3/31/2017					0.0007 (J)	0.0031 (J)
5/11/2017	<0.005					
5/12/2017				0.0005 (J)		
6/15/2017	<0.005			<0.005		
7/11/2017	<0.005			0.0008 (J)		
7/12/2017		0.0121				
7/13/2017			<0.005		<0.005	0.0018 (J)
10/24/2017	<0.005			<0.005		
10/25/2017		0.0135	<0.005		<0.005	
10/26/2017						0.0016 (J)
2/27/2018	<0.005			<0.005		
2/28/2018		0.0177	0.001 (J)		0.0011 (J)	
3/1/2018						0.0029 (J)
7/11/2018	<0.005	0.0055			<0.005	
7/12/2018			<0.005			0.0023 (J)
11/6/2018	<0.005			<0.005		
11/7/2018		0.0054	<0.005		<0.005	<0.005 (J)
8/27/2019	0.00099 (J)			<0.005		
8/28/2019					<0.005	
8/29/2019		0.0064	<0.005			0.00089 (J)
10/15/2019				<0.005		
10/17/2019	<0.005	0.0094			<0.005	0.0013 (J)
10/18/2019			<0.005			
3/2/2020				<0.005		
3/3/2020	0.0025 (J)		<0.005			
3/4/2020		0.029			<0.005	0.0012 (J)
8/11/2020	<0.005					
8/12/2020				<0.005		0.00081 (J)
8/13/2020		0.014			<0.005	
8/14/2020			<0.005			
9/22/2020		0.0063		<0.005	<0.005	
9/23/2020	<0.005					<0.005
9/24/2020			<0.005			
3/1/2021				<0.005		
3/2/2021	<0.005	0.019				
3/3/2021			<0.005		<0.005	<0.005
9/9/2021	<0.005					
9/10/2021		0.0083	<0.005	<0.005		0.0016 (J)
9/13/2021					<0.005	
1/20/2022	0.0023 (J)		<0.005		<0.005	
1/21/2022		0.015				0.0036 (J)
1/24/2022				0.0011 (J)		
9/13/2022					<0.005	<0.005
9/15/2022		0.016				

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-22	DGWC-4	DGWC-42	DGWC-47
9/16/2022			<0.005			
9/19/2022				<0.005		
9/20/2022	<0.005					
Mean	0.004458	0.01248	0.004765	0.003931	0.004518	0.002824
Std. Dev.	0.001241	0.006428	0.0009701	0.001916	0.001363	0.001533
Upper Lim.	0.005	0.01651	0.005	0.005	0.005	0.002756
Lower Lim.	0.0025	0.008455	0.001	0.0008	0.0011	0.001467

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-101D	B-104D
8/30/2016			<0.005	0.0241		
8/31/2016		0.0035 (J)				
9/1/2016	<0.005					
12/6/2016		0.0032 (J)	<0.005	<0.005		
12/8/2016	<0.005					
3/28/2017		0.0385		0.0243		
3/29/2017			0.001 (J)			
3/30/2017	0.0015 (J)					
7/11/2017		0.0203	0.0012 (J)	0.0194		
7/13/2017	0.0012 (J)					
10/24/2017			0.0015 (J)	0.0249		
10/25/2017		0.0119				
10/26/2017	0.0008 (J)					
2/27/2018		0.0094	0.002 (J)	0.0405		
3/2/2018	0.0017 (J)					
7/11/2018				0.016		
7/12/2018	0.0015 (J)					
11/6/2018		<0.005	<0.005	0.017		
11/7/2018	<0.005					
8/27/2019		<0.005		0.021		
8/28/2019			<0.005			
8/29/2019	<0.005					
10/16/2019		0.0036 (J)	<0.005			
10/17/2019				0.033		
10/18/2019	0.00079 (J)					
3/2/2020		0.0052				
3/3/2020			0.00096 (J)	0.015		
3/4/2020	0.0006 (J)					
8/11/2020				0.022		
8/12/2020		0.002 (J)	<0.005			
8/13/2020	<0.005					
9/22/2020		0.0062		0.04		
9/23/2020	<0.005		<0.005			
12/9/2020						<0.005
1/12/2021					<0.005	<0.005
3/2/2021		0.0013 (J)	<0.005	0.021		
3/3/2021	<0.005					
3/4/2021						0.0025 (J)
3/5/2021					0.0017 (J)	
9/10/2021	<0.005	0.0031 (J)		0.031		
9/13/2021			<0.005		<0.005	
9/14/2021						0.0019 (J)
1/24/2022	<0.005	0.0019 (J)				0.0035 (J)
1/25/2022			<0.005			
1/26/2022				0.012	<0.005	
9/13/2022	<0.005					<0.005
9/14/2022		0.0038 (J)				
9/15/2022			<0.005			
9/16/2022					<0.005	
9/19/2022				0.016		
Mean	0.003417	0.007744	0.003854	0.02248	0.00434	0.003817
Std. Dev.	0.001968	0.009484	0.00177	0.009441	0.001476	0.001393

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-101D	B-104D
Upper Lim.	0.005	0.008917	0.005	0.0284	0.005	0.003563
Lower Lim.	0.0012	0.002832	0.0012	0.01657	0.0017	0.001776

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-109D	B-111D	B-115D	B-120D	B-56	B-62
1/30/2019						<0.005
9/11/2019						<0.005
10/21/2019						<0.005
8/13/2020						<0.005
8/17/2020					0.0032 (J)	
9/24/2020						<0.005
9/28/2020					0.0047 (J)	
12/9/2020		<0.005				
1/12/2021		<0.005				
1/13/2021	<0.005					
3/3/2021					0.003 (J)	
3/5/2021		0.0023 (J)				
3/8/2021	<0.005					
3/12/2021						<0.005
4/14/2021			0.0028 (J)			
4/15/2021				<0.005		
9/9/2021						<0.005
9/10/2021	<0.005					
9/13/2021					0.0031 (J)	
9/14/2021		0.0029 (J)	0.0018 (J)	<0.005		
1/20/2022	0.0026 (J)		0.0027 (J)	0.0016 (J)		0.0033 (J)
1/24/2022		0.0022 (J)				
1/27/2022					0.0045 (J)	
9/8/2022						<0.005
9/14/2022		<0.005	<0.005			
9/16/2022					<0.005	
9/19/2022				<0.005		
9/20/2022	<0.005					
Mean	0.00452	0.003733	0.003075	0.00415	0.003917	0.004811
Std. Dev.	0.001073	0.001408	0.00136	0.0017	0.0009109	0.0005667
Upper Lim.	0.005	0.005	0.003454	0.005	0.004698	0.005
Lower Lim.	0.0026	0.0022	0.001412	0.0016	0.00253	0.0033

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-77	B-82	B-83	B-93
1/28/2019	<0.005				
9/11/2019	<0.005				
9/18/2019		<0.005			
9/23/2019			<0.005		
10/21/2019			<0.005	<0.005	
10/22/2019	<0.005				
10/24/2019		0.0029 (J)			
8/13/2020		0.002 (J)			
8/14/2020				<0.005	
8/17/2020			<0.005		
8/19/2020					0.0013 (J)
9/24/2020		0.0025 (J)			
9/25/2020				<0.005	
9/28/2020			<0.005		0.0027 (J)
3/4/2021		0.002 (J)		<0.005	
3/9/2021					<0.005
3/12/2021			<0.005		
9/14/2021	<0.005	<0.005	<0.005		
9/15/2021					<0.005
9/16/2021				<0.005	
1/20/2022	0.0022 (J)	0.003 (J)			
1/21/2022				0.0014 (J)	
1/25/2022			0.003 (J)		
1/26/2022					0.002 (J)
9/12/2022					<0.005
9/13/2022		<0.005		<0.005	
9/14/2022	<0.005				
9/16/2022			<0.005 (D)		
Mean	0.004533	0.003425	0.00475	0.004486	0.0035
Std. Dev.	0.001143	0.001353	0.0007071	0.001361	0.001702
Upper Lim.	0.005	0.005	0.005	0.005	0.002828
Lower Lim.	0.0022	0.002	0.003	0.0014	0.001247

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	0.0321	0.0545			0.0576	
9/1/2016			0.0254			
9/6/2016				0.0297		0.0497
12/6/2016	0.029	0.0564			0.0608	
12/7/2016			0.0241	0.0266		0.0469
3/29/2017	0.0335	0.0565	0.0268		0.0693	
3/30/2017				0.0308		0.0495
7/12/2017	0.0314	0.0572	0.0262	0.0291	0.0585	0.0517
10/24/2017	0.0317	0.0596				
10/25/2017			0.0268		0.0563	0.0474
11/15/2017				0.0309		
2/27/2018	0.028	0.0672	0.0255		0.0591	
2/28/2018				<0.01		0.0455
7/11/2018			0.026		0.061	0.05
11/6/2018	0.025	0.074				
11/7/2018			0.028	0.034	0.055	0.042
8/27/2019	0.021	0.071	0.024		0.059	
8/28/2019				0.033		0.047
9/17/2019			0.02			
10/15/2019	0.024	0.064	0.02			
10/16/2019				0.034	0.059	
10/17/2019						0.046
3/2/2020		0.071	0.04			
3/3/2020	0.024			0.035	0.064	0.05
8/11/2020	0.024	0.064	0.028		0.061	
8/12/2020				0.032		
8/13/2020						0.06
9/22/2020		0.058	0.036		0.06	
9/23/2020				0.03		0.043
9/24/2020	0.021					
3/2/2021		0.052		0.03	0.064	0.043
3/3/2021			0.035			
3/4/2021	0.025					
9/9/2021		0.054	0.04	0.027	0.059	0.041
9/10/2021	0.019					
1/24/2022						0.041
1/25/2022		0.047	0.054	0.028	0.064	
1/26/2022	0.022					
9/13/2022					0.063	0.042
9/15/2022	0.018	0.047	0.035	0.027		
Mean	0.02554	0.05959	0.03004	0.02888	0.06062	0.04681
Std. Dev.	0.004884	0.008265	0.008517	0.006884	0.003446	0.00487
Upper Lim.	0.02872	0.06496	0.03435	0.03235	0.06278	0.04986
Lower Lim.	0.02237	0.05421	0.0249	0.02732	0.05846	0.04375

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.0214				
9/2/2016				0.0097 (J)	0.0252	0.0397
9/7/2016	0.0694					
12/7/2016		0.0191		0.0087 (J)		
12/8/2016	0.062				0.0262	0.0408
3/29/2017		0.0209		0.0094 (J)		0.0417
3/30/2017	0.0615		0.0232		0.0272	
5/11/2017			0.0231			
6/15/2017			0.0223			
7/11/2017			0.0201			
7/12/2017	0.0532	0.0212		0.0099 (J)	0.0276	
7/13/2017						0.0376
10/24/2017			0.0206			
10/25/2017	0.0544	0.021		0.0096 (J)	0.0262	0.0384
2/27/2018			0.0207			
2/28/2018	0.0527	0.0213		<0.01	0.027	0.0353
7/11/2018	0.053	0.023	0.022	0.01	0.027	
7/12/2018						0.036
11/6/2018			0.021			
11/7/2018	0.044	0.024		0.011	0.024	0.031
8/27/2019	0.05		0.023			
8/28/2019		0.026				
8/29/2019				0.018	0.027	0.031
10/16/2019		0.024				
10/17/2019			0.022	0.015	0.027	
10/18/2019	0.045					0.032
3/3/2020		0.028	0.022		0.027	0.035
3/4/2020	0.044			0.017		
8/11/2020		0.027	0.022			
8/13/2020				0.019		
8/14/2020	0.046				0.027	0.035
9/22/2020		0.026		0.011		
9/23/2020			0.023			
9/24/2020	0.033				0.024	0.031
3/2/2021		0.026	0.023	0.021		
3/3/2021	0.036				0.024	0.031
9/9/2021		0.025	0.022		0.023	
9/10/2021				0.0098		0.027
9/13/2021	0.031					
1/20/2022			0.022		0.024	0.029
1/21/2022				0.018		
1/24/2022	0.031					
1/25/2022		0.026				
9/14/2022	0.031	0.027				
9/15/2022				0.017	0.024	
9/16/2022						0.029
9/20/2022			0.02			
Mean	0.04689	0.02394	0.02188	0.01289	0.02573	0.03415
Std. Dev.	0.01177	0.002698	0.001054	0.004613	0.001551	0.004449
Upper Lim.	0.05427	0.02563	0.02255	0.01578	0.0272	0.03693
Lower Lim.	0.03952	0.02224	0.02124	0.009998	0.024	0.03136

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						0.0266 (O)
9/1/2016				0.0162	0.0157	
9/7/2016			0.0194			
12/6/2016						0.0186
12/8/2016			0.0189	0.0247	0.0155	
3/28/2017		0.0363				0.0187
3/30/2017	0.0184				0.0131	
3/31/2017			0.0194	0.0189		
5/12/2017	0.0202	0.0337				
6/15/2017	0.0188	0.03				
7/11/2017		0.0301				0.0174 (J)
7/12/2017	0.0186					
7/13/2017			0.021	0.0165	0.014	
10/24/2017		0.0351				
10/25/2017			0.0196			0.0175
10/26/2017	0.0176			0.0152	0.0117	
2/27/2018		0.0364				0.0172
2/28/2018			0.0171			
3/1/2018	0.0164			0.0164		
3/2/2018					0.0131	
7/11/2018			0.02			
7/12/2018	0.022			0.015	0.013	
11/6/2018		0.035				0.016
11/7/2018			0.017	0.02	0.014	
11/8/2018	0.022					
8/27/2019		0.036				0.017
8/28/2019			0.018			
8/29/2019	0.025			0.018	0.014	
10/15/2019		0.033				
10/16/2019						0.02
10/17/2019			0.018	0.019		
10/18/2019	0.019				0.014	
3/2/2020		0.036				0.018
3/4/2020	0.032		0.015	0.017	0.014	
8/12/2020		0.036		0.016		0.017
8/13/2020	0.027		0.027		0.013	
9/22/2020		0.03	0.016			0.017
9/23/2020				0.014	0.013	
9/24/2020	0.02					
3/1/2021		0.039				
3/2/2021						0.017
3/3/2021	0.019		0.015	0.02	0.014	
9/9/2021	0.021					
9/10/2021		0.032		0.021	0.013	0.015
9/13/2021			0.014			
1/20/2022	0.024		0.014			
1/21/2022				0.017		
1/24/2022		0.035			0.014	0.018
9/13/2022			0.016	0.022	0.014	
9/14/2022						0.018
9/19/2022		0.032				
9/20/2022	0.019					

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
Mean	0.02118	0.0341	0.01796	0.01805	0.01371	0.01749
Std. Dev.	0.003931	0.002676	0.003173	0.002812	0.0009565	0.001173
Upper Lim.	0.02336	0.03584	0.01995	0.01982	0.0155	0.01829
Lower Lim.	0.01875	0.03236	0.01598	0.01629	0.013	0.0167

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100	B-101D	B-102D	B-104D
8/30/2016	0.0435	0.0162				
12/6/2016	0.0431	0.0138				
3/28/2017		0.017				
3/29/2017	0.044					
7/11/2017	0.0389	0.0154 (J)				
10/24/2017	0.0369	0.0148				
2/27/2018	0.0346	0.0148				
7/11/2018		0.017				
11/6/2018	0.027	0.015				
8/27/2019		0.016				
8/28/2019	0.025					
10/16/2019	0.027					
10/17/2019		0.015				
3/3/2020	0.026	0.016				
8/11/2020		0.016				
8/12/2020	0.034					
8/17/2020			0.015			
9/22/2020		0.015				
9/23/2020	0.025					
9/25/2020			0.022			
12/9/2020						0.026
12/17/2020					0.022	
1/11/2021					0.024	
1/12/2021				0.076		0.022
3/2/2021	0.029	0.017				
3/4/2021					0.022	0.021
3/5/2021				0.064		
3/8/2021			0.022			
9/10/2021		0.014			0.02	
9/13/2021	0.019		0.021	0.076		
9/14/2021						0.021
1/21/2022			0.023			
1/24/2022						0.024
1/25/2022	0.019					
1/26/2022		0.016		0.062		
1/27/2022					0.022	
9/8/2022			0.021			
9/13/2022						0.021
9/15/2022	0.021				0.019	
9/16/2022				0.063		
9/19/2022		0.017				
Mean	0.03081	0.01565	0.02067	0.0682	0.0215	0.0225
Std. Dev.	0.008607	0.001031	0.002875	0.007155	0.001761	0.002074
Upper Lim.	0.03641	0.01629	0.02353	0.076	0.02392	0.026
Lower Lim.	0.02521	0.015	0.01731	0.062	0.01908	0.021

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
12/9/2020		0.13	0.066		0.027	
12/17/2020	0.022					
1/12/2021					0.027	
1/13/2021				0.06		
3/4/2021	0.021	0.12	0.06			
3/5/2021					0.038	
3/8/2021				0.056		
4/14/2021						0.018
9/10/2021				0.022		
9/13/2021	0.02	0.087				
9/14/2021			0.06		0.043	0.016
1/20/2022				0.047		0.015
1/24/2022		0.092	0.056		0.038	
1/25/2022	0.02					
9/14/2022		0.057			0.028	0.014
9/15/2022			0.054			
9/16/2022	0.021					
9/20/2022				0.055		
Mean	0.0208	0.0972	0.0592	0.048	0.0335	0.01575
Std. Dev.	0.0008367	0.02891	0.004604	0.01528	0.007007	0.001708
Upper Lim.	0.0222	0.1456	0.06692	0.06745	0.04313	0.01963
Lower Lim.	0.0194	0.04876	0.05148	0.02078	0.02387	0.01187

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62	B-63	B-66	B-77
1/28/2019				0.028		
1/30/2019			0.018		0.016	
9/11/2019			0.023	0.021		
9/12/2019					0.017	
9/18/2019						0.086
10/21/2019			0.026		0.018	
10/22/2019				0.021		
10/24/2019						0.1
8/13/2020			0.026			0.11
8/17/2020		0.03				
9/24/2020			0.025			0.12
9/28/2020		0.026				
3/3/2021		0.028				
3/4/2021						0.11
3/12/2021			0.027			
4/15/2021	0.044					
9/9/2021			0.021			
9/13/2021		0.026				
9/14/2021	0.031			0.026	0.018	0.12
1/20/2022	0.025		0.021	0.02		0.13
1/25/2022					0.021	
1/27/2022		0.03				
9/8/2022			0.018			
9/13/2022						0.089
9/14/2022				0.032		
9/16/2022		0.028			0.02	
9/19/2022	0.023					
Mean	0.03075	0.028	0.02278	0.02467	0.01833	0.1081
Std. Dev.	0.009465	0.001789	0.003456	0.004803	0.001862	0.01553
Upper Lim.	0.05224	0.03046	0.02611	0.03126	0.02089	0.1246
Lower Lim.	0.009261	0.02554	0.01944	0.01807	0.01578	0.09166

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-82	B-83	B-88	B-93
9/23/2019	0.031			
10/21/2019	0.03	0.034		
8/14/2020		0.056		
8/17/2020	0.024		0.022	
8/19/2020				0.018
9/25/2020		0.027	0.021	
9/28/2020	0.023			0.017
3/4/2021		0.032		
3/5/2021			0.022	
3/9/2021				0.016 (J)
9/13/2021			0.016	
9/14/2021	0.022			
9/15/2021				0.016
9/16/2021		0.03		
1/21/2022		0.024		
1/25/2022	0.026			
1/26/2022				0.021
1/27/2022			0.018	
9/12/2022				0.015
9/13/2022		0.025		
9/16/2022	0.02		0.016	
Mean	0.02514	0.03257	0.01917	0.01717
Std. Dev.	0.0041	0.01095	0.002858	0.002137
Upper Lim.	0.03001	0.044	0.02288	0.0201
Lower Lim.	0.02027	0.02231	0.015	0.01423

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-15	DGWC-17
8/31/2016	0.0046	<0.0005				
9/1/2016			0.0002 (J)			
9/6/2016				<0.0005	<0.0005	
9/7/2016						0.0006 (J)
12/6/2016	0.0048	<0.0005				
12/7/2016			0.0002 (J)	<0.0005	<0.0005	
12/8/2016						0.0005 (J)
3/29/2017	0.0048	<0.0005	0.0002 (J)			
3/30/2017				7E-05 (J)	<0.0005	0.0006 (J)
7/12/2017	0.0046	<0.0005	0.0002 (J)	<0.0005	<0.0005	0.0005 (J)
10/24/2017	0.0048	<0.0005				
10/25/2017			0.0002 (J)		<0.0005	0.0005 (J)
11/15/2017				<0.0005		
2/27/2018	0.0106	<0.0005	<0.0005			
2/28/2018				<0.0005	<0.0005	<0.0005
7/11/2018			0.0002 (J)		<0.0005	0.00058 (J)
11/6/2018	0.012	<0.003 (J)				
11/7/2018			<0.003 (J)	<0.003 (J)	<0.003 (J)	<0.0005
8/27/2019	0.0092	0.00014 (J)	0.00028 (J)			0.00066 (J)
8/28/2019				<0.0005	<0.0005	
9/17/2019			0.00049 (J)			
10/15/2019	0.01	0.00012 (J)	0.00016 (J)			
10/16/2019				<0.0005		
10/17/2019					<0.0005	
10/18/2019						0.00071 (J)
3/2/2020		0.00016 (J)	7.4E-05 (J)			
3/3/2020	0.0085			<0.0005	<0.0005	
3/4/2020						0.00062 (J)
8/11/2020	0.0066	0.00011 (J)	0.00024 (J)			
8/12/2020				7.8E-05 (J)		
8/13/2020					0.00022 (J)	
8/14/2020						0.00064 (J)
9/22/2020		0.00015 (J)	0.00017 (J)			
9/23/2020				6.8E-05 (J)	5.8E-05 (J)	
9/24/2020	0.0077					0.0006 (J)
3/2/2021		0.00014 (J)		7.3E-05 (J)	<0.0005	
3/3/2021			0.00011 (J)			0.00056
3/4/2021	0.0086					
9/9/2021		0.00013 (J)	8.4E-05 (J)	7E-05 (J)	<0.0005	
9/10/2021	0.0074					
9/13/2021						0.00052
1/24/2022					<0.0005	0.00059
1/25/2022		0.00019 (J)	<0.0005	9.1E-05 (J)		
1/26/2022	0.0091					
9/13/2022					<0.0005	
9/14/2022						0.00058
9/15/2022	0.0063	0.00018 (J)	0.00019 (J)	8E-05 (J)		
Mean	0.007475	0.00027	0.0002777	0.0002519	0.0003105	0.0005447
Std. Dev.	0.002377	0.0003324	0.0003179	0.000344	0.0003101	0.0001249
Upper Lim.	0.009022	0.00025	0.00025	0.00025	0.0015	0.0006196
Lower Lim.	0.005928	0.00013	0.00016	7.3E-05	0.00022	0.0004888

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
9/1/2016	0.0019 (J)					
9/2/2016		0.0026 (J)	0.0001 (J)	0.0002 (J)		
12/7/2016	0.0021 (J)	0.0035				
12/8/2016			0.0001 (J)	0.0001 (J)		
3/28/2017						0.0002 (J)
3/29/2017	0.0017 (J)	0.0026 (J)		0.0002 (J)		
3/30/2017			0.0002 (J)		0.0004 (J)	
5/12/2017					0.0004 (J)	0.0002 (J)
6/15/2017					0.0004 (J)	0.0001 (J)
7/11/2017						0.0001 (J)
7/12/2017	0.0018 (J)	0.0025 (J)	0.0001 (J)		0.0004 (J)	
7/13/2017				0.0002 (J)		
10/24/2017						0.0002 (J)
10/25/2017	0.0019 (J)	0.0027 (J)	0.0002 (J)	0.0002 (J)		
10/26/2017					0.0004 (J)	
2/27/2018						<0.0005
2/28/2018	<0.0005	<0.0005	<0.0005	<0.0005		
3/1/2018					<0.0005	
7/11/2018	0.002 (J)	0.0026 (J)	0.00016 (J)			
7/12/2018				0.00018 (J)	0.00035 (J)	
11/6/2018						<0.003 (J)
11/7/2018	<0.003 (J)	<0.003 (J)	<0.003 (J)	<0.003 (J)		
11/8/2018					<0.003 (J)	
8/27/2019						0.00024 (J)
8/28/2019	0.0018 (J)					
8/29/2019		0.005	0.00018 (J)	0.00015 (J)	0.00041 (J)	
10/15/2019						0.00022 (J)
10/16/2019	0.0017 (J)					
10/17/2019		0.0041	0.00015 (J)			
10/18/2019				0.00014 (J)	0.00038 (J)	
3/2/2020						0.00025 (J)
3/3/2020	0.0021 (J)		0.00019 (J)	0.00017 (J)		
3/4/2020		0.0089			0.00077 (J)	
8/11/2020	0.002 (J)					
8/12/2020						0.00024 (J)
8/13/2020		0.0063			0.00041 (J)	
8/14/2020			0.0002 (J)	0.00016 (J)		
9/22/2020	0.002 (J)	0.0027 (J)				0.00019 (J)
9/24/2020			0.00018 (J)	0.00017 (J)	0.00045 (J)	
3/1/2021						0.00027 (J)
3/2/2021	0.0019	0.0057				
3/3/2021			0.00017 (J)	0.00013 (J)	0.0005	
9/9/2021	0.0022		0.00018 (J)		0.0005 (J)	
9/10/2021		0.0024		0.00014 (J)		0.00028 (J)
1/20/2022			0.00019 (J)	0.00014 (J)	0.00046 (J)	
1/21/2022		0.007				
1/24/2022						0.00033 (J)
1/25/2022	0.0019					
9/14/2022	0.0018					
9/15/2022		0.0056	0.00018 (J)			
9/16/2022				0.00023 (J)		
9/19/2022						0.00034 (J)

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
9/20/2022					0.00037 (J)	
Mean	0.001797	0.003879	0.0002488	0.0002506	0.0004912	0.0003069
Std. Dev.	0.0004339	0.002224	0.0003249	0.0003242	0.0002804	0.0003249
Upper Lim.	0.002008	0.005273	0.0002	0.00023	0.0005	0.00033
Lower Lim.	0.00171	0.002486	0.00015	0.00014	0.00038	0.00019

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016					0.0018 (J)	0.0045
8/31/2016				0.0054		
9/1/2016		0.0165	0.008			
9/7/2016	0.0021 (J)					
12/6/2016				0.0064	0.0034	0.005
12/8/2016	0.0023 (J)	0.0116	0.0086			
3/28/2017				0.0049		0.0052
3/29/2017					0.0031	
3/30/2017			0.0106			
3/31/2017	0.0025 (J)	0.0112				
7/11/2017				0.005	0.0022 (J)	0.0048
7/13/2017	0.0025 (J)	0.0098	0.0106			
10/24/2017					0.0042	0.0051
10/25/2017	0.0026 (J)			0.0069		
10/26/2017		0.0119	0.0078			
2/27/2018				0.0086	0.0047	0.0057
2/28/2018	<0.0005					
3/1/2018		0.0146				
3/2/2018			0.0096			
7/11/2018	0.0029 (J)					0.0058
7/12/2018		0.013	0.0086			
11/6/2018				0.01	<0.003 (J)	0.006
11/7/2018	0.0031	0.014	0.0078			
8/27/2019				0.01		0.007
8/28/2019	0.0023 (J)				0.0021 (J)	
8/29/2019		0.011	0.0081			
10/16/2019				0.0072	0.0019 (J)	
10/17/2019	0.0027 (J)	0.0093				0.0063
10/18/2019			0.0099			
3/2/2020				0.0098		
3/3/2020					0.0018 (J)	0.0048
3/4/2020	0.0029 (J)	0.01	0.008			
8/11/2020						0.0062
8/12/2020		0.0068		0.0081	0.0018 (J)	
8/13/2020	0.0026 (J)		0.0071			
9/22/2020	0.0013 (J)			0.0081		0.0049
9/23/2020		0.0069	0.0072		0.0015 (J)	
3/2/2021				0.0063	0.0012	0.005
3/3/2021	0.0023	0.0081	0.0068			
9/10/2021		0.009	0.007	0.0075		0.0049
9/13/2021	0.0024				0.0015	
1/20/2022	0.002					
1/21/2022		0.01				
1/24/2022			0.0069	0.0084		
1/25/2022					0.0012	
1/26/2022						0.0054
9/13/2022	0.0028	0.0094	0.0071			
9/14/2022				0.01		
9/15/2022					0.00088	
9/19/2022						0.0047
Mean	0.002326	0.01077	0.008218	0.007663	0.002174	0.005371
Std. Dev.	0.0006783	0.002649	0.001265	0.001768	0.001104	0.0006881

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
Upper Lim.	0.002711	0.01243	0.008951	0.008813	0.002763	0.005802
Lower Lim.	0.002083	0.009111	0.007416	0.006512	0.001459	0.004939

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D
8/17/2020	0.0004 (J)					
9/25/2020	0.00035 (J)					
12/9/2020				0.0013 (J)		<0.0005
12/17/2020			0.0014 (J)		0.00012 (J)	
1/11/2021			0.0013 (J)			
1/12/2021		6.6E-05 (J)		0.0015 (J)		
3/4/2021			0.0012	0.0015	0.00013 (J)	5E-05 (J)
3/5/2021		4.7E-05 (J)				
3/8/2021	0.00046 (J)					
9/10/2021			0.0011			
9/13/2021	0.00053	6.7E-05 (J)			0.00013 (J)	<0.0005
9/14/2021				0.0011		
1/21/2022	0.00053					
1/24/2022				0.0012		<0.0005
1/25/2022					0.00011 (J)	
1/26/2022		7.9E-05 (J)				
1/27/2022			0.0011			
9/8/2022	0.00058					
9/13/2022				0.0014		
9/14/2022						<0.0005
9/15/2022			0.001			
9/16/2022		6.7E-05 (J)			0.00011 (J)	
Mean	0.000475	6.52E-05	0.001183	0.001333	0.00012	0.00021
Std. Dev.	8.781E-05	1.15E-05	0.0001472	0.0001633	1E-05	8.944E-05
Upper Lim.	0.0005956	8.447E-05	0.001386	0.001558	0.0001368	0.00025
Lower Lim.	0.0003544	4.593E-05	0.0009811	0.001109	0.0001032	5E-05

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-109D	B-115D	B-120D	B-56	B-62	B-63
10/6/2016					9E-05 (J)	
10/7/2016						0.0004 (J)
2/19/2018						0.00049 (J)
1/28/2019						<0.0005
1/30/2019					<0.0005	
9/11/2019					0.00012 (J)	0.00035 (J)
10/21/2019					7.8E-05 (J)	
10/22/2019						0.0003 (J)
8/13/2020					0.00011 (J)	
8/17/2020				0.0013 (J)		
9/24/2020					0.00013 (J)	
9/28/2020				0.0012 (J)		
1/13/2021	5.9E-05 (J)					
3/3/2021				0.0011		
3/8/2021	7.9E-05 (J)					
3/12/2021					<0.0005	
4/14/2021		0.012				
4/15/2021			0.00085			
9/9/2021					0.00014 (J)	
9/10/2021	<0.0005					
9/13/2021				0.0012		
9/14/2021		0.011	0.00087			0.00042 (J)
1/20/2022	7.1E-05 (J)	0.011	0.0011		0.00015 (J)	0.00034 (J)
1/27/2022				0.0012		
9/8/2022					0.00013 (J)	
9/14/2022		0.01				0.00053
9/16/2022				0.0013		
9/19/2022			0.0011			
9/20/2022	8E-05 (J)					
Mean	0.0001078	0.011	0.00098	0.001217	0.0001448	0.000385
Std. Dev.	7.994E-05	0.0008165	0.0001388	7.528E-05	5.955E-05	9.426E-05
Upper Lim.	0.00025	0.01285	0.0011	0.00132	0.0001362	0.0004849
Lower Lim.	5.9E-05	0.009146	0.00085	0.001113	9.267E-05	0.0002851

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-77	B-82	B-83	B-88	B-92	B-93
9/18/2019	0.00011 (J)					
9/23/2019		0.0015 (J)				
10/21/2019		0.0011 (J)	0.00039 (J)			
10/24/2019	<0.0005					
12/18/2019					0.022	
12/19/2019						0.0069
8/13/2020	0.00014 (J)					
8/14/2020			0.0007 (J)			
8/17/2020		0.0014 (J)		0.0014 (J)		
8/19/2020						0.015
9/24/2020	5.3E-05 (J)					
9/25/2020			0.00028 (J)	0.00063 (J)		
9/28/2020		0.0015 (J)				0.015
3/4/2021	5.7E-05 (J)		0.00037 (J)			
3/5/2021				0.005		
3/9/2021					0.017	0.017
9/13/2021				0.001		
9/14/2021	<0.0005	0.0017				
9/15/2021					0.014	0.015
9/16/2021			0.00028 (J)			
1/20/2022	<0.0005					
1/21/2022			0.00039 (J)			
1/25/2022		0.0021				
1/26/2022					0.018	0.017
1/27/2022				0.0019		
9/12/2022					0.017	0.017
9/13/2022	0.00013 (J)		0.00044 (J)			
9/16/2022		0.002		0.0013		
Mean	0.000155	0.001614	0.0004071	0.001872	0.0176	0.0147
Std. Dev.	8.448E-05	0.0003485	0.0001421	0.00159	0.002881	0.003582
Upper Lim.	0.0001381	0.002028	0.0005687	0.003921	0.02243	0.017
Lower Lim.	5.882E-05	0.0012	0.0002575	0.0003565	0.01277	0.0069

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-97
2/17/2020	<0.0005
2/27/2020	0.0019 (J)
3/9/2021	0.0019
9/15/2021	0.0016
1/26/2022	0.0017
9/13/2022	0.0017
Mean	0.001508
Std. Dev.	0.000628
Upper Lim.	0.001898
Lower Lim.	0.0005068

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-15	DGWC-17
8/31/2016	0.0012	<0.0005				
9/1/2016			0.0004 (J)			
9/6/2016				<0.0005	<0.0005	
9/7/2016						0.0003 (J)
12/6/2016	0.0013	<0.0005				
12/7/2016			0.0003 (J)	0.0002 (J)	9E-05 (J)	
12/8/2016						0.0003 (J)
3/29/2017	0.0013	<0.0005	0.0003 (J)			
3/30/2017				8E-05 (J)	9E-05 (J)	0.0003 (J)
7/12/2017	0.0013	<0.0005	0.0004 (J)	<0.0005	<0.0005	0.0002 (J)
10/24/2017	0.0014	<0.0005				
10/25/2017			0.0004 (J)		<0.0005	0.0002 (J)
11/15/2017				<0.0005		
2/27/2018	0.001	<0.0005	<0.0005			
2/28/2018				<0.0005	<0.0005	<0.0005
7/11/2018			0.00033 (J)		<0.0005	0.00029 (J)
11/6/2018	0.0012	<0.0005				
11/7/2018			<0.001 (J)	<0.0005	<0.001 (J)	<0.0005
8/27/2019	0.00077 (J)	0.00012 (J)	0.00037 (J)			0.00033 (J)
8/28/2019				<0.0005	<0.0005	
9/17/2019			0.00035 (J)			
10/15/2019	0.00095 (J)	<0.0005	0.00025 (J)			
10/16/2019				<0.0005		
10/17/2019					<0.0005	
10/18/2019						0.00029 (J)
3/2/2020		<0.0005	<0.0005			
3/3/2020	0.00095 (J)			<0.0005	0.00012 (J)	
3/4/2020						0.00028 (J)
8/11/2020	0.00071 (J)	<0.0005	0.00038 (J)			
8/12/2020				<0.0005		
8/13/2020					0.00013 (J)	
8/14/2020						0.00029 (J)
9/22/2020		0.00016 (J)	0.00017 (J)			
9/23/2020				<0.0005	<0.0005	
9/24/2020	0.00055 (J)					0.00024 (J)
3/2/2021		0.00013 (J)		<0.0005	<0.0005	
3/3/2021			0.00016 (J)			0.00023 (J)
3/4/2021	0.00088					
9/9/2021		<0.0005	<0.0005	<0.0005	<0.0005	
9/10/2021	0.00061					
9/13/2021						0.00023 (J)
1/24/2022					<0.0005	0.00027 (J)
1/25/2022		0.00016 (J)	<0.0005	<0.0005		
1/26/2022	0.0007					
9/13/2022					<0.0005	
9/14/2022						0.00024 (J)
9/15/2022	0.00047 (J)	<0.0005	0.00017 (J)	<0.0005		
Mean	0.0009556	0.0004106	0.0003878	0.000455	0.0004371	0.0002935
Std. Dev.	0.0003012	0.0001601	0.0001897	0.0001249	0.0002236	8.616E-05
Upper Lim.	0.001152	0.0005	0.000327	0.0005	0.001	0.00033
Lower Lim.	0.0007597	0.00016	0.0002145	0.0002	0.00013	0.00023

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23
9/1/2016	0.0004 (J)					
9/2/2016			0.0023	0.0006 (J)	0.0003 (J)	
12/7/2016	0.0004 (J)		0.0023			
12/8/2016				0.0006 (J)	0.0004 (J)	
3/29/2017	0.0004 (J)		0.0021		0.0004 (J)	
3/30/2017		0.0005 (J)		0.0008 (J)		0.0002 (J)
5/11/2017		0.0004 (J)				
5/12/2017						0.0003 (J)
6/15/2017		0.0003 (J)				0.0002 (J)
7/11/2017		0.0003 (J)				
7/12/2017	0.0004 (J)		0.0021	0.0006 (J)		0.0002 (J)
7/13/2017					0.0005 (J)	
10/24/2017		0.0003 (J)				
10/25/2017	0.0004 (J)		0.002	0.0005 (J)	0.0007 (J)	
10/26/2017						0.0003 (J)
2/27/2018		<0.0005				
2/28/2018	<0.0005		0.0018	<0.0005	<0.0005	
3/1/2018						<0.0005
7/11/2018	0.00039 (J)	0.00018 (J)	0.0018	0.00054 (J)		
7/12/2018					0.00091 (J)	0.00028 (J)
11/6/2018		<0.001 (J)				
11/7/2018	<0.001 (J)		0.0018	<0.001 (J)	<0.001 (J)	
11/8/2018						<0.001 (J)
8/27/2019		0.00012 (J)				
8/28/2019	0.00033 (J)					
8/29/2019			0.002 (J)	0.00087 (J)	0.00053 (J)	0.00022 (J)
10/16/2019	0.00034 (J)					
10/17/2019		0.00013 (J)	0.0017 (J)	0.0006 (J)		
10/18/2019					0.00056 (J)	0.00022 (J)
3/3/2020	0.00037 (J)	0.00014 (J)		0.00063 (J)	0.00061 (J)	
3/4/2020			0.0026			0.00024 (J)
8/11/2020	0.0003 (J)	<0.0005				
8/13/2020			0.0021 (J)			0.00027 (J)
8/14/2020				0.00054 (J)	0.00057 (J)	
9/22/2020	0.00036 (J)		0.0014 (J)			
9/23/2020		0.00013 (J)				
9/24/2020				0.00073 (J)	0.00058 (J)	0.00018 (J)
3/2/2021	0.00035 (J)	<0.0005	0.0025			
3/3/2021				0.00044 (J)	0.0005	0.00015 (J)
9/9/2021	0.00037 (J)	<0.0005		0.00012 (J)		0.00019 (J)
9/10/2021			0.0012		0.00061	
1/20/2022		<0.0005		<0.0005	0.00052	0.00012 (J)
1/21/2022			0.0028			
1/25/2022	0.00041 (J)					
9/14/2022	0.00032 (J)					
9/15/2022			0.0021	0.00029 (J)		
9/16/2022					0.00065	
9/20/2022		<0.0005				0.00017 (J)
Mean	0.0004141	0.0003824	0.002035	0.00058	0.0005788	0.0002788
Std. Dev.	0.0001576	0.0002229	0.0004076	0.0002051	0.0001724	0.0002044
Upper Lim.	0.00041	0.0005	0.002291	0.0006131	0.0006868	0.0003
Lower Lim.	0.00034	0.00014	0.00178	0.0003396	0.0004708	0.00018

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016						0.0019
8/31/2016					0.0002 (J)	
9/1/2016			0.0017	0.0013		
9/7/2016		0.0007 (J)				
12/6/2016					0.0004 (J)	0.0025
12/8/2016		0.0003 (J)	0.0002 (J)	0.0042		
3/28/2017	0.0006 (J)				0.0002 (J)	
3/29/2017						0.0024
3/30/2017				0.0089		
3/31/2017		0.0009 (J)	0.002			
5/12/2017	0.0006 (J)					
6/15/2017	0.0005 (J)					
7/11/2017	0.0006 (J)				0.0003 (J)	0.0021
7/13/2017		0.0008 (J)	0.0017	0.0033		
10/24/2017	0.0007 (J)					0.0029
10/25/2017		0.0005 (J)			0.0006 (J)	
10/26/2017			0.0015	0.0032		
2/27/2018	<0.0005				<0.0005	0.0029
2/28/2018		<0.0005				
3/1/2018			0.0025			
3/2/2018				0.0049		
7/11/2018		0.0024				
7/12/2018			0.0021	0.0032		
11/6/2018	<0.001 (J)				<0.001 (J)	0.0027
11/7/2018		<0.001 (J)	0.0016	0.0031		
8/27/2019	0.00072 (J)				0.00082 (J)	
8/28/2019		0.0015 (J)				0.0022 (J)
8/29/2019			0.0021 (J)	0.003		
10/15/2019	0.00077 (J)					
10/16/2019					0.00069 (J)	0.0022 (J)
10/17/2019		0.00058 (J)	0.0033			
10/18/2019				0.0028		
3/2/2020	0.00088 (J)				0.00089 (J)	
3/3/2020						0.002 (J)
3/4/2020		0.00037 (J)	0.0017 (J)	0.0036		
8/12/2020	0.0008 (J)		0.001 (J)		0.00079 (J)	0.0021 (J)
8/13/2020		0.0013 (J)		0.0028		
9/22/2020	0.00065 (J)	0.0007 (J)			0.00072 (J)	
9/23/2020			0.0013 (J)	0.0025		0.0018 (J)
3/1/2021	0.00085					
3/2/2021					0.00075	0.0017
3/3/2021		0.00038 (J)	0.0016	0.0033		
9/10/2021	0.0009		0.0014	0.0028	0.00093	
9/13/2021		0.00042 (J)				0.002
1/20/2022		0.00038 (J)				
1/21/2022			0.0019			
1/24/2022	0.00098			0.0029	0.00094	
1/25/2022						0.0016
9/13/2022		0.00069	0.0011	0.0026		
9/14/2022					0.00087	
9/15/2022						0.0011
9/19/2022	0.00091					

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
Mean	0.0007475	0.0007894	0.001688	0.003435	0.0006625	0.002131
Std. Dev.	0.0001631	0.0005327	0.0006642	0.001595	0.0002669	0.0004799
Upper Lim.	0.0008536	0.001003	0.002104	0.0036	0.0008361	0.002443
Lower Lim.	0.0006414	0.0004734	0.001272	0.0026	0.0004889	0.001819

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-100	B-101D	B-102D	B-106D	B-115D
8/30/2016	0.0004 (J)					
12/6/2016	0.0005 (J)					
3/28/2017	0.0005 (J)					
7/11/2017	0.0005 (J)					
10/24/2017	0.0006 (J)					
2/27/2018	<0.0005					
7/11/2018	0.00067 (J)					
11/6/2018	<0.001 (J)					
8/27/2019	0.00071 (J)					
10/17/2019	0.00064 (J)					
3/3/2020	0.00059 (J)					
8/11/2020	0.00059 (J)					
8/17/2020		0.00059 (J)				
9/22/2020	0.00059 (J)					
9/25/2020		0.00027 (J)				
12/17/2020				0.00067 (J)	0.0002 (J)	
1/11/2021				0.0008 (J)		
1/12/2021			<0.0005			
3/2/2021	0.00057					
3/4/2021				0.00081	0.00021 (J)	
3/5/2021			<0.0005			
3/8/2021		0.00027 (J)				
4/14/2021						0.00041 (J)
9/10/2021	0.00053			0.00083		
9/13/2021		0.00029 (J)	<0.0005		0.00024 (J)	
9/14/2021						0.00035 (J)
1/20/2022						0.00029 (J)
1/21/2022		0.00059				
1/25/2022					0.00012 (J)	
1/26/2022	0.00059		0.00011 (J)			
1/27/2022				0.00091		
9/8/2022		0.00027 (J)				
9/14/2022						0.00018 (J)
9/15/2022				0.00091		
9/16/2022			<0.0005		<0.0005	
9/19/2022	0.00076					
Mean	0.0006024	0.00038	0.000422	0.0008217	0.000254	0.0003075
Std. Dev.	0.0001347	0.0001628	0.0001744	8.864E-05	0.0001445	9.811E-05
Upper Lim.	0.0006783	0.00059	0.0005	0.0009434	0.0002669	0.0005302
Lower Lim.	0.000519	0.00027	0.00011	0.0006999	0.0001181	8.476E-05

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-63	B-82	B-83	B-93
1/28/2019			<0.0005			
9/11/2019			<0.0005			
9/23/2019				0.00044 (J)		
10/21/2019				0.00035 (J)	0.00041 (J)	
10/22/2019			0.00014 (J)			
8/14/2020					0.00037 (J)	
8/17/2020		0.00029 (J)		0.00058 (J)		
8/19/2020						0.00077 (J)
9/25/2020					0.00026 (J)	
9/28/2020		0.00024 (J)		0.00066 (J)		0.00074 (J)
3/3/2021		0.00026 (J)				
3/4/2021					0.00032 (J)	
3/9/2021						0.00075 (J)
4/15/2021	0.001					
9/13/2021		0.00028 (J)				
9/14/2021	0.0011		0.00025 (J)	0.0007		
9/15/2021						0.00088
9/16/2021					0.0003 (J)	
1/20/2022	0.00098		<0.0005			
1/21/2022					0.0003 (J)	
1/25/2022				0.00072		
1/26/2022						0.00079
1/27/2022		0.00025 (J)				
9/12/2022						0.00084
9/13/2022					0.00031 (J)	
9/14/2022			0.00018 (J)			
9/16/2022		0.0003 (J)		0.00073		
9/19/2022	0.0012					
Mean	0.00107	0.00027	0.000345	0.0005971	0.0003243	0.000795
Std. Dev.	0.0001013	2.366E-05	0.0001734	0.0001491	4.995E-05	5.468E-05
Upper Lim.	0.0013	0.0003025	0.0005	0.0007742	0.0003836	0.0008701
Lower Lim.	0.00084	0.0002375	0.00014	0.0004201	0.000265	0.0007199

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-15	DGWC-17
8/31/2016	<0.005	<0.005				
9/1/2016			<0.005			
9/6/2016				<0.005	<0.005	
9/7/2016						0.0026 (J)
12/6/2016	<0.005	<0.005				
12/7/2016			<0.005	<0.005	<0.005	
12/8/2016						0.0025 (J)
3/29/2017	0.0008 (J)	<0.005	<0.005			
3/30/2017				0.0009 (J)	0.0005 (J)	0.0026 (J)
7/12/2017	0.0006 (J)	<0.005	<0.005	<0.005	<0.005	0.0022 (J)
10/24/2017	0.0007 (J)	<0.005				
10/25/2017			<0.005		<0.005	0.0024 (J)
11/15/2017				<0.005		
2/27/2018	<0.005	<0.005	<0.005			
2/28/2018				<0.005	<0.005	<0.005
7/11/2018			<0.005		<0.005	0.0024 (J)
11/6/2018	<0.005	<0.005				
11/7/2018			<0.005	<0.005	<0.01 (J)	<0.005
8/27/2019	0.00083 (J)	0.0006 (J)	<0.005			0.0031 (J)
8/28/2019				<0.005	<0.005	
9/17/2019			<0.005			
10/15/2019	0.00078 (J)	<0.005	<0.005			
10/16/2019				<0.005		
10/17/2019					0.00058 (J)	
10/18/2019						0.0027 (J)
3/2/2020		0.0006 (J)	<0.005			
3/3/2020	0.00092 (J)			0.00066 (J)	0.00046 (J)	
3/4/2020						0.0035 (J)
8/11/2020	0.00097 (J)	0.00061 (J)	0.00094 (J)			
8/12/2020				0.00074 (J)		
8/13/2020					0.0048 (J)	
8/14/2020						0.0033 (J)
9/22/2020		0.00058 (J)	<0.005			
9/23/2020				0.00059 (J)	<0.005	
9/24/2020	0.001 (J)					0.0029 (J)
3/2/2021		<0.005		<0.005	<0.005	
3/3/2021			0.00099 (J)			0.0028 (J)
3/4/2021	0.0009 (J)					
9/9/2021		<0.005	<0.005	<0.005	<0.005	
9/10/2021	<0.005					
9/13/2021						0.0027 (J)
1/24/2022					<0.005	0.0029 (J)
1/25/2022		<0.005	<0.005	<0.005		
1/26/2022	0.0011 (J)					
9/13/2022					<0.005	
9/14/2022						0.0023 (J)
9/15/2022	<0.005	<0.005	<0.005	<0.005		
Mean	0.002412	0.003899	0.004552	0.003931	0.004491	0.002994
Std. Dev.	0.002073	0.001969	0.001305	0.001914	0.00225	0.0008295
Upper Lim.	0.005	0.005	0.005	0.005	0.01	0.0033
Lower Lim.	0.00078	0.00061	0.00099	0.00074	0.0048	0.0024

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23
9/1/2016	0.0031 (J)					
9/2/2016			0.0017 (J)	<0.005	0.0012 (J)	
12/7/2016	<0.005		<0.005			
12/8/2016				<0.005	<0.005	
3/29/2017	0.0025 (J)		0.0016 (J)		<0.005	
3/30/2017		0.0005 (J)		0.0005 (J)		0.0012 (J)
5/11/2017		0.0005 (J)				
5/12/2017						0.0004 (J)
6/15/2017		<0.005				0.0005 (J)
7/11/2017		<0.005				
7/12/2017	0.0023 (J)		<0.005	0.0006 (J)		0.0007 (J)
7/13/2017					<0.005	
10/24/2017		<0.005				
10/25/2017	0.0024 (J)		0.0015 (J)	<0.005	<0.005	
10/26/2017						0.0007 (J)
2/27/2018		<0.005				
2/28/2018	<0.005		<0.005	<0.005	<0.005	
3/1/2018						<0.005
7/11/2018	0.0022 (J)	<0.005	<0.005	<0.005		
7/12/2018					<0.005	<0.005
11/6/2018		<0.005				
11/7/2018	<0.01 (J)		<0.01 (J)	<0.005	<0.005	
11/8/2018						<0.005
8/27/2019		0.0004 (J)				
8/28/2019	0.0028 (J)					
8/29/2019			0.0017 (J)	0.00041 (J)	<0.005	<0.005
10/16/2019	0.0024 (J)					
10/17/2019		0.00046 (J)	0.0015 (J)	<0.005		
10/18/2019					<0.005	0.00041 (J)
3/3/2020	0.0028 (J)	<0.005		0.00048 (J)	<0.005	
3/4/2020			0.0032 (J)			0.00081 (J)
8/11/2020	0.0024 (J)	0.00067 (J)				
8/13/2020			0.0023 (J)			0.00085 (J)
8/14/2020				<0.005	<0.005	
9/22/2020	0.003 (J)		0.0013 (J)			
9/23/2020		<0.005				
9/24/2020				0.00096 (J)	<0.005	0.00084 (J)
3/2/2021	0.0024 (J)	0.00064 (J)	0.0022 (J)			
3/3/2021				0.002 (J)	<0.005	0.0014 (J)
9/9/2021	0.003 (J)	<0.005		<0.005		<0.005
9/10/2021			<0.005		<0.005	
1/20/2022		<0.005		<0.005	<0.005	<0.005
1/21/2022			0.0021 (J)			
1/25/2022	0.0029 (J)					
9/14/2022	0.0024 (J)					
9/15/2022			0.0014 (J)	<0.005		
9/16/2022					<0.005	
9/20/2022		<0.005				<0.005
Mean	0.003329	0.003422	0.003265	0.003526	0.004776	0.002518
Std. Dev.	0.001911	0.002203	0.002306	0.002084	0.0009216	0.002154
Upper Lim.	0.0031	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0024	0.0005	0.0015	0.0006	0.0012	0.0005

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016						<0.005
8/31/2016					<0.005	
9/1/2016			<0.005	<0.005		
9/7/2016		<0.005				
12/6/2016					<0.005	<0.005
12/8/2016		<0.005	<0.005	<0.005		
3/28/2017	0.0005 (J)				<0.005	
3/29/2017						0.0004 (J)
3/30/2017				<0.005		
3/31/2017		0.001 (J)	0.0007 (J)			
5/12/2017	<0.005					
6/15/2017	<0.005					
7/11/2017	<0.005				<0.005	<0.005
7/13/2017		0.0008 (J)	<0.005	0.0007 (J)		
10/24/2017	<0.005					<0.005
10/25/2017		0.0005 (J)			<0.005	
10/26/2017			<0.005	<0.005		
2/27/2018	<0.005				<0.005	<0.005
2/28/2018		<0.005				
3/1/2018			<0.005			
3/2/2018				<0.005		
7/11/2018		<0.005				
7/12/2018			<0.005	<0.005		
11/6/2018	<0.005				<0.005	<0.005
11/7/2018		<0.005	<0.005	<0.005		
8/27/2019	<0.005				<0.005	
8/28/2019		<0.005				<0.005
8/29/2019			<0.005	<0.005		
10/15/2019	<0.005					
10/16/2019					<0.005	0.0013 (J)
10/17/2019		0.00041 (J)	<0.005			
10/18/2019				<0.005		
3/2/2020	<0.005				0.00045 (J)	
3/3/2020						0.00061 (J)
3/4/2020		0.00042 (J)	<0.005	0.0004 (J)		
8/12/2020	<0.005		<0.005		<0.005	0.0028 (J)
8/13/2020		0.0021 (J)		<0.005		
9/22/2020	<0.005	0.001 (J)			<0.005	
9/23/2020			<0.005	<0.005		0.00086 (J)
3/1/2021	<0.005					
3/2/2021					<0.005	0.0015 (J)
3/3/2021		<0.005	<0.005	<0.005		
9/10/2021	<0.005		<0.005	<0.005	<0.005	
9/13/2021		<0.005				<0.005
1/20/2022		<0.005				
1/21/2022			<0.005			
1/24/2022	<0.005			<0.005	<0.005	
1/25/2022						<0.005
9/13/2022		<0.005	<0.005	<0.005		
9/14/2022					<0.005	
9/15/2022						<0.005
9/19/2022	<0.005					

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
Mean	0.004719	0.003308	0.004747	0.004476	0.004716	0.003592
Std. Dev.	0.001125	0.002116	0.001043	0.001479	0.001137	0.001943
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0005	0.0008	0.0007	0.0007	0.00045	0.00086

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-100	B-101D	B-104D	B-109D	B-56
8/30/2016	<0.005					
12/6/2016	<0.005					
3/28/2017	0.001 (J)					
7/11/2017	<0.005					
10/24/2017	<0.005					
2/27/2018	<0.005					
7/11/2018	<0.005					
11/6/2018	<0.005					
8/27/2019	0.00048 (J)					
10/17/2019	0.00051 (J)					
3/3/2020	0.0057 (J)					
8/11/2020	0.00061 (J)					
8/17/2020		<0.005				0.0014 (J)
9/22/2020	<0.005					
9/25/2020		0.00094 (J)				
9/28/2020						<0.005
12/9/2020				0.0011 (J)		
1/12/2021			<0.005	<0.005		
1/13/2021					<0.005	
3/2/2021	0.00059 (J)					
3/3/2021						0.00059 (J)
3/4/2021				<0.005		
3/5/2021			<0.005			
3/8/2021		0.00057 (J)			0.00061 (J)	
9/10/2021	<0.005				<0.005	
9/13/2021		<0.005	0.0014 (J)			<0.005
9/14/2021				<0.005		
1/20/2022					<0.005	
1/21/2022		<0.005				
1/24/2022				<0.005		
1/26/2022	0.0029 (J)		<0.005			
1/27/2022						0.0014 (J)
9/8/2022		<0.005				
9/13/2022				<0.005		
9/16/2022			<0.005			<0.005
9/19/2022	<0.005					
9/20/2022					<0.005	
Mean	0.003635	0.003585	0.00428	0.00435	0.004122	0.003065
Std. Dev.	0.002069	0.002195	0.00161	0.001592	0.001963	0.00214
Upper Lim.	0.0057	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00061	0.00057	0.0014	0.0011	0.00061	0.00059

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-77	B-82	B-83	B-88
1/28/2019		<0.005				
1/30/2019	<0.005					
9/11/2019	<0.005	<0.005				
9/18/2019			0.00068 (J)			
9/23/2019				0.0011 (J)		
10/21/2019	0.00098 (J)			<0.005	0.0017 (J)	
10/22/2019		0.00064 (J)				
10/24/2019			<0.005			
8/13/2020	<0.005		0.0021 (J)			
8/14/2020					0.005 (J)	
8/17/2020				<0.005		0.0014 (J)
9/24/2020	<0.005		0.0007 (J)			
9/25/2020					0.0051 (J)	0.00085 (J)
9/28/2020				<0.005		
3/4/2021			0.00098 (J)		0.0049 (J)	
3/5/2021						0.0017 (J)
3/12/2021	<0.005					
9/9/2021	<0.005					
9/13/2021						<0.005
9/14/2021		<0.005	<0.005	<0.005		
9/16/2021					0.003 (J)	
1/20/2022	<0.005	<0.005	<0.005			
1/21/2022					0.0034 (J)	
1/25/2022				<0.005		
1/27/2022						<0.005
9/8/2022	<0.005					
9/13/2022			<0.005		0.0022 (J)	
9/14/2022		<0.005				
9/16/2022				<0.005		<0.005
Mean	0.004553	0.004273	0.003057	0.004443	0.003614	0.003158
Std. Dev.	0.00134	0.00178	0.002123	0.001474	0.001406	0.002036
Upper Lim.	0.005	0.005	0.005	0.005	0.005285	0.005
Lower Lim.	0.00098	0.00064	0.00068	0.0011	0.001944	0.00085

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93
8/19/2020	0.00057 (J)
9/28/2020	0.00066 (J)
3/9/2021	<0.005
9/15/2021	<0.005
1/26/2022	0.0011 (J)
9/12/2022	<0.005
Mean	0.002888
Std. Dev.	0.00232
Upper Lim.	0.005
Lower Lim.	0.00057

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-15	DGWC-17
8/31/2016	0.193	<0.005				
9/1/2016			0.0021 (J)			
9/6/2016				<0.005	0.0042 (J)	
9/7/2016						0.0247
12/6/2016	0.2	0.0006 (J)				
12/7/2016			0.0026 (J)	<0.005	0.0028 (J)	
12/8/2016						0.029
3/29/2017	0.184	<0.005	0.0026 (J)			
3/30/2017				0.0005 (J)	0.0024 (J)	0.0283
7/12/2017	0.177	<0.005	0.0033 (J)	0.0004 (J)	0.002 (J)	0.023
10/24/2017	0.175	<0.005				
10/25/2017			0.0021 (J)		0.0019 (J)	0.0259
11/15/2017				<0.005		
2/27/2018	0.2	<0.005	<0.005			
2/28/2018				<0.005	<0.005	0.02
7/11/2018			0.002 (J)		0.0018 (J)	0.025
11/6/2018	0.2	<0.005				
11/7/2018			<0.01 (J)	<0.005	0.025	<0.01 (J)
8/27/2019	0.13	0.00076 (J)	0.0021 (J)			0.031
8/28/2019				<0.005	0.0015 (J)	
9/17/2019			0.0079			
10/15/2019	0.17	0.0006 (J)	0.0058			
10/16/2019				<0.005		
10/17/2019					0.0018 (J)	
10/18/2019						0.023
3/2/2020		0.00078 (J)	0.029			
3/3/2020	0.18			<0.005	0.0018 (J)	
3/4/2020						0.023
8/11/2020	0.11	0.00055 (J)	0.006			
8/12/2020				<0.005		
8/13/2020					0.0024 (J)	
8/14/2020						0.026
9/22/2020		0.00098 (J)	0.013			
9/23/2020				0.00038 (J)	0.0018 (J)	
9/24/2020	0.086					0.028
3/2/2021		0.00065 (J)		<0.005	0.0013 (J)	
3/3/2021			0.01			0.016
3/4/2021	0.071					
9/9/2021		0.00081 (J)	0.034	<0.005	0.0016 (J)	
9/10/2021	0.076					
9/13/2021						0.019
1/24/2022					0.0015 (J)	0.019
1/25/2022		0.0015 (J)	0.018	<0.005		
1/26/2022	0.099					
9/13/2022					0.0016 (J)	
9/14/2022						0.016
9/15/2022	0.055	0.001 (J)	0.025	<0.005		
Mean	0.1441	0.001452	0.009611	0.002111	0.003406	0.02246
Std. Dev.	0.05294	0.0008668	0.01017	0.0008361	0.005607	0.006302
Upper Lim.	0.193	0.0025	0.018	0.0025	0.0025	0.02641
Lower Lim.	0.076	0.00065	0.0025	0.0005	0.0016	0.01852

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22	DGWC-23
9/1/2016	0.0553					
9/2/2016			0.497	0.0085 (J)	0.0102	
12/7/2016	0.0561		0.614			
12/8/2016				0.0095 (J)	0.0079 (J)	
3/29/2017	0.0534		0.443		0.0097 (J)	
3/30/2017		0.0255		0.0076 (J)		<0.005
5/11/2017		0.0284				
5/12/2017						<0.005
6/15/2017		0.0238				0.0003 (J)
7/11/2017		0.0238				
7/12/2017	0.0489		0.538	0.0092 (J)		<0.005
7/13/2017					0.0106	
10/24/2017		0.0292				
10/25/2017	0.0514		0.432	0.0092 (J)	0.0094 (J)	
10/26/2017						<0.005
2/27/2018		0.042				
2/28/2018	0.0511		0.459	<0.005	<0.005	
3/1/2018						<0.005
7/11/2018	0.051	0.02	0.47	0.0097 (J)		
7/12/2018					0.011	<0.005
11/6/2018		0.024				
11/7/2018	0.048		0.42	<0.01 (J)	<0.01 (J)	
11/8/2018						<0.01 (J)
8/27/2019		0.0088				
8/28/2019	0.048					
8/29/2019			0.66	0.01	0.0094	0.00036 (J)
10/16/2019	0.046					
10/17/2019		0.0084	0.57	0.01		
10/18/2019					0.0084	<0.005
3/3/2020	0.054	0.0073		0.01	0.0098	
3/4/2020			0.84			0.00043 (J)
8/11/2020	0.049	0.0064				
8/13/2020			0.73			0.00048 (J)
8/14/2020				0.0098	0.0087	
9/22/2020	0.051		0.47			
9/23/2020		0.0062				
9/24/2020				0.01	0.01	<0.005
3/2/2021	0.051	0.0055	0.77			
3/3/2021				0.0087	0.0078	0.00039 (J)
9/9/2021	0.055	0.0048 (J)		0.0096		0.00049 (J)
9/10/2021			0.45		0.0076	
1/20/2022		0.004 (J)		0.0076	0.0075	0.00058 (J)
1/21/2022			0.95			
1/25/2022	0.054					
9/14/2022	0.052					
9/15/2022			0.75	0.0081		
9/16/2022					0.0098	
9/20/2022		0.0028 (J)				0.00053 (J)
Mean	0.05148	0.01594	0.5919	0.008529	0.008547	0.00168
Std. Dev.	0.002882	0.01179	0.1635	0.002021	0.002138	0.001338
Upper Lim.	0.05329	0.02169	0.6845	0.009637	0.009817	0.0025
Lower Lim.	0.04968	0.007709	0.4878	0.008194	0.007638	0.00043

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016						0.0568
8/31/2016					0.055	
9/1/2016			0.536	0.539		
9/7/2016		0.0695				
12/6/2016					0.0432	0.0873
12/8/2016		0.0652	0.381	0.575		
3/28/2017	0.0018 (J)				0.04	
3/29/2017						0.0902
3/30/2017				0.573		
3/31/2017		0.0524	0.354			
5/12/2017	0.0015 (J)					
6/15/2017	0.0015 (J)					
7/11/2017	0.0015 (J)				0.0351 (J)	0.0601
7/13/2017		0.0481	0.396	0.531		
10/24/2017	0.0017 (J)					0.123
10/25/2017		0.0435			0.0209	
10/26/2017			0.383	0.482		
2/27/2018	<0.005				0.024	0.126
2/28/2018		0.0167				
3/1/2018			0.401			
3/2/2018				0.49		
7/11/2018		0.019				
7/12/2018			0.36	0.46		
11/6/2018	<0.01 (J)				0.019	0.077
11/7/2018		0.02	0.35	0.48		
8/27/2019	0.0018 (J)				0.02	
8/28/2019		0.029				0.051
8/29/2019			0.28	0.42		
10/15/2019	0.0018 (J)					
10/16/2019					0.022	0.054
10/17/2019		0.03	0.26			
10/18/2019				0.41		
3/2/2020	0.0021 (J)				0.028	
3/3/2020						0.044
3/4/2020		0.014	0.28	0.42		
8/12/2020	0.0018 (J)		0.21		0.021	0.053
8/13/2020		0.025		0.35		
9/22/2020	0.0014 (J)	0.014			0.02	
9/23/2020			0.17	0.37		0.04
3/1/2021	0.002 (J)					
3/2/2021					0.021	0.033
3/3/2021		0.0087	0.2	0.36		
9/10/2021	0.0019 (J)		0.23	0.36	0.022	
9/13/2021		0.008				0.028
1/20/2022		0.0056				
1/21/2022			0.24			
1/24/2022	0.0019 (J)			0.34	0.025	
1/25/2022						0.019
9/13/2022		0.0069	0.21	0.31		
9/14/2022					0.027	
9/15/2022						0.0046 (J)
9/19/2022	0.0018 (J)					

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
Mean	0.002	0.02798	0.3083	0.4394	0.0277	0.05919
Std. Dev.	0.0008438	0.02053	0.09696	0.08465	0.01036	0.03425
Upper Lim.	0.0021	0.03784	0.369	0.4925	0.04	0.08147
Lower Lim.	0.0015	0.01411	0.2475	0.3864	0.0209	0.0369

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-100	B-101D	B-102D	B-104D	B-106D
8/30/2016	0.0896					
12/6/2016	0.122					
3/28/2017	0.124					
7/11/2017	0.136					
10/24/2017	0.151					
2/27/2018	0.163					
7/11/2018	0.18					
11/6/2018	0.2					
8/27/2019	0.24					
10/17/2019	0.21					
3/3/2020	0.2					
7/23/2020		0.086				
8/3/2020		0.087				
8/11/2020	0.22					
8/17/2020		0.077				
9/22/2020	0.16					
9/25/2020		0.034				
12/9/2020					0.17	
12/17/2020				0.014		0.00087 (J)
1/11/2021				0.015		
1/12/2021			0.0034 (J)		0.19	
3/2/2021	0.18					
3/4/2021				0.014	0.19	0.0007 (J)
3/5/2021			0.0023 (J)			
3/8/2021		0.029				
9/10/2021	0.21			0.013		
9/13/2021		0.035	0.003 (J)			0.00056 (J)
9/14/2021					0.1	
1/21/2022		0.034				
1/24/2022					0.1	
1/25/2022						<0.005
1/26/2022	0.22		0.0028 (J)			
1/27/2022				0.014		
9/8/2022		0.028				
9/13/2022					0.14	
9/15/2022				0.012		
9/16/2022			0.0035 (J)			<0.005
9/19/2022	0.25					
Mean	0.1797	0.05125	0.003	0.01367	0.1483	0.001426
Std. Dev.	0.04503	0.02684	0.0004848	0.001033	0.04167	0.0009865
Upper Lim.	0.208	0.087	0.003812	0.01509	0.2056	0.0009444
Lower Lim.	0.1515	0.028	0.002188	0.01225	0.09109	0.0005169

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-107D	B-108D	B-111D	B-115D	B-120D	B-56
8/17/2020						0.042
9/28/2020						0.042
12/9/2020	0.0017 (J)	0.0048 (J)	0.00076 (J)			
1/12/2021			0.0007 (J)			
3/3/2021						0.05
3/4/2021	0.0012 (J)	0.0017 (J)				
3/5/2021			0.00052 (J)			
4/14/2021				0.3		
4/15/2021					0.017	
9/13/2021	0.00083 (J)					0.047
9/14/2021		0.0017 (J)	<0.005	0.28	0.0055	
1/20/2022				0.24	0.0045 (J)	
1/24/2022	0.00088 (J)	0.00061 (J)	0.00041 (J)			
1/27/2022						0.052
9/14/2022	0.00061 (J)		<0.005	0.23		
9/15/2022		0.001 (J)				
9/16/2022						0.051
9/19/2022					0.0027 (J)	
Mean	0.001044	0.001962	0.001232	0.2625	0.007425	0.04733
Std. Dev.	0.000423	0.001654	0.0009904	0.03304	0.006488	0.004457
Upper Lim.	0.001753	0.004907	0.0008129	0.3375	0.02518	0.05346
Lower Lim.	0.0003352	0.0001737	0.0004143	0.1875	9.622E-06	0.04121

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-66	B-77	B-82	B-83
1/28/2019		0.053				
1/30/2019	<0.005		<0.005			
9/11/2019	0.0003 (J)	0.043				
9/12/2019			0.006			
9/18/2019				0.0031 (J)		
9/23/2019					0.0038 (J)	
10/21/2019	0.00031 (J)		0.0074		0.0089	0.018
10/22/2019		0.046				
10/24/2019				0.0021 (J)		
8/13/2020	<0.005			0.0011 (J)		
8/14/2020						0.021
8/17/2020					0.0028 (J)	
9/24/2020	<0.005			0.0004 (J)		
9/25/2020						0.0073
9/28/2020					0.0053	
3/4/2021				0.0017 (J)		0.0099
3/12/2021	<0.005	0.046	0.01		0.0021 (J)	
9/9/2021	<0.005					
9/14/2021		0.037	0.012	<0.005	0.0015 (J)	
9/16/2021						0.011
1/20/2022	<0.005	0.039		<0.005		
1/21/2022						0.011
1/25/2022			0.013		0.0039 (J)	
9/8/2022	<0.005					
9/9/2022	<0.005					
9/13/2022				<0.005 (D)		0.012
9/14/2022		0.0465 (D)				
9/16/2022			0.012 (D)		0.00175 (JD)	
Mean	0.002061	0.04436	0.008986	0.001987	0.003756	0.01289
Std. Dev.	0.0009255	0.005313	0.003847	0.0008806	0.002439	0.004831
Upper Lim.	0.0025	0.05067	0.01356	0.002648	0.006341	0.01862
Lower Lim.	0.00031	0.03805	0.004416	0.0007123	0.001171	0.007148

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-88	B-93	B-98
11/22/2019	0.018 (J)		
12/19/2019		0.066	
2/17/2020			<0.005
8/17/2020	0.0031 (J)		
8/19/2020		0.068	
9/25/2020	0.0015 (J)		
9/28/2020		0.064	
3/5/2021	0.022		
3/9/2021		0.061	
3/15/2021			<0.005
9/13/2021	0.0018 (J)		
9/15/2021		0.062	0.0048 (J)
1/26/2022		0.064	<0.005
1/27/2022	0.0038 (J)		
9/12/2022		0.057	
9/13/2022			0.00063 (J)
9/16/2022	0.00135 (JD)		
Mean	0.007364	0.06314	0.002586
Std. Dev.	0.008753	0.003579	0.001479
Upper Lim.	0.01587	0.06739	0.0048
Lower Lim.	0.001019	0.05889	0.00063

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	1.08	1.09			0.997 (U)	
9/1/2016			1.11			
9/6/2016				1.32		0.731 (U)
12/6/2016	1.31	0.409 (U)			0.659 (U)	
12/7/2016			2.66	1.76		1.73
3/29/2017	1.24	0.727	0.0726 (U)		0.313 (U)	
3/30/2017				1.59		0.276 (U)
7/12/2017	0.831	0.85 (U)	0.538 (U)	1.36	1.03 (U)	0.584 (U)
10/24/2017	0.838 (U)	0.98 (U)				
10/25/2017			0.216 (U)		0.607 (U)	0.454 (U)
11/15/2017				1.08 (U)		
2/27/2018	1.55	1.14	0.83		0.695 (U)	
2/28/2018				0.721 (U)		1.25
7/10/2018	1.65	0.495 (U)		0.746 (U)		
7/11/2018			0.728 (U)		1.04 (U)	2.13
11/6/2018	1.46	1.41				
11/7/2018			0.414 (U)	1.22 (U)	0.593 (U)	0.786 (U)
8/27/2019	1.58	2.13	0.434 (U)		1.17 (U)	
8/28/2019				1.43		1.01 (U)
10/15/2019	0.831 (U)	0.622 (U)	0.359 (U)			
10/16/2019				1.73	1.04 (U)	
10/17/2019						1.03 (U)
3/2/2020		1.3	1.2 (U)			
3/3/2020	1.69			1.03	1.44	0.293 (U)
8/11/2020	1.45	1.02	0.77 (U)		1.17 (U)	
8/12/2020				1.63		
8/13/2020						3.58
9/22/2020		0.502 (U)	0.515 (U)		1.2 (U)	
9/23/2020				0.935 (U)		1.69 (U)
9/24/2020	1.39					
3/2/2021		0.666 (U)		1.12 (U)	0.861 (U)	0.599 (U)
3/3/2021			1.85			
3/4/2021	1.48					
9/9/2021		1.2 (U)	1.78	1.23 (U)	0.643 (U)	0.624 (U)
9/10/2021	0.882 (U)					
1/24/2022						0.534 (U)
1/25/2022		0.983 (U)	0.739 (U)	0.254 (U)	0.229 (U)	
1/26/2022	1.21					
Mean	1.28	0.9703	0.8885	1.197	0.8554	1.081
Std. Dev.	0.3039	0.4315	0.691	0.4063	0.337	0.8576
Upper Lim.	1.477	1.251	1.227	1.462	1.075	1.478
Lower Lim.	1.082	0.6895	0.4225	0.9329	0.6362	0.5478

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		1.07 (U)				
9/2/2016				1.48	0.908 (U)	1.54
9/7/2016	1.17					
12/7/2016		0.903 (U)		1.26 (U)		
12/8/2016	1.65				1.03 (U)	0.505 (U)
3/29/2017		0.302 (U)		0.373 (U)		0.715 (U)
3/30/2017	0.865 (U)		0.737 (U)		0.884 (U)	
5/11/2017			0.892 (U)			
6/15/2017			0.979 (U)			
7/11/2017			0.871 (U)			
7/12/2017	0.362 (U)	0.283 (U)		0.91 (U)	1.22	
7/13/2017						1.14
10/24/2017			1.19			
10/25/2017	0.401 (U)	0.927 (U)		0.853 (U)	1.07 (U)	1.6
2/27/2018			0.863 (U)			
2/28/2018	1.1 (U)	0.813 (U)		0.727 (U)	1.45	0.918 (U)
7/11/2018	0.64 (U)	0.751 (U)	0.663 (U)	1.3	1.59	
7/12/2018						0.981 (U)
11/6/2018			0.664			
11/7/2018	0.795 (U)	1.02		0.746 (U)	1.16	0.832 (U)
8/27/2019	1.12		1.6			
8/28/2019		0.661 (U)				
8/29/2019				0.996 (U)	0.582 (U)	1.87
10/16/2019		1.79				
10/17/2019			1.74	2	0.427 (U)	
10/18/2019	0.89 (U)					1.1 (U)
3/3/2020		0.383 (U)	1.23		0.567 (U)	0.517 (U)
3/4/2020	0.493 (U)			1.67		
8/11/2020		0.723 (U)	1.37			
8/13/2020				1.77		
8/14/2020	0.804 (U)				0.602 (U)	1.83
9/22/2020		0.96 (U)		1.61 (U)		
9/23/2020			1.96 (U)			
9/24/2020	0.369 (U)				0.396 (U)	1.02 (U)
3/2/2021		0.775 (U)	1.54 (U)	1.76		
3/3/2021	0.66 (U)				0.248 (U)	0.547 (U)
9/9/2021		0.239 (U)	1.22 (U)		0.702 (U)	
9/10/2021				0.689 (U)		0.616 (U)
9/13/2021	0.85 (U)					
1/20/2022			0.722 (U)		0.337 (U)	0.298 (U)
1/21/2022				0.826 (U)		
1/24/2022	0.692 (U)					
1/25/2022		0.415 (U)				
Mean	0.8038	0.7509	1.14	1.186	0.8233	1.002
Std. Dev.	0.342	0.3912	0.4084	0.4842	0.405	0.4877
Upper Lim.	1.026	1.005	1.406	1.501	1.087	1.319
Lower Lim.	0.5813	0.4964	0.8744	0.8706	0.5598	0.6845

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						2.49
9/1/2016				4.47	2.37	
9/7/2016			0.876 (U)			
12/6/2016						0.348 (U)
12/8/2016			0.955	2.88	2.87	
3/28/2017		1.36				0.693 (U)
3/30/2017	0.297 (U)				1.71	
3/31/2017			0.102 (U)	1.14		
5/12/2017	0.693 (U)	1.15				
6/15/2017	0.435 (U)	0.765 (U)				
7/11/2017		1.13				1.38
7/12/2017	0.703 (U)					
7/13/2017			1.08 (U)	2.37	1.78	
10/24/2017		1.24				
10/25/2017			1.46			2.06
10/26/2017	0.984 (U)			2.88	3.74	
2/27/2018		1.82				1.97
2/28/2018			0.882 (U)			
3/1/2018	0.743 (U)			2.21		
3/2/2018					2.26	
7/10/2018		1.37				1.03 (U)
7/11/2018			0.924 (U)			
7/12/2018	0.918 (U)			1.73	1.81	
11/6/2018		1.2				1.13
11/7/2018			0.654 (U)	1.72	1.94	
11/8/2018	1.47					
8/27/2019		1.79				1.81
8/28/2019			0.883 (U)			
8/29/2019	2.21			3.05	2.37	
10/15/2019		2.11 (U)				
10/16/2019						1.63
10/17/2019			1.38	2.58		
10/18/2019	1.32				1.42	
3/2/2020		1.99				2.28
3/4/2020	1.39		0.722 (U)	1.68	1.31	
8/12/2020		1.95		2.56		1.13
8/13/2020	1.48 (U)		1.23 (U)		1.74	
9/22/2020		1.43 (U)	1.03 (U)			1.4 (U)
9/23/2020				2.3 (U)	1.51 (U)	
9/24/2020	1.49					
3/1/2021		1.05 (U)				
3/2/2021						0.971 (U)
3/3/2021	1.05 (U)		0.92 (U)	1.27 (U)	1.41	
9/9/2021	1.81					
9/10/2021		1.46		2.32	2.21	1.15
9/13/2021			1.15 (U)			
1/20/2022	0.61 (U)		0.0465 (U)			
1/21/2022				0.785 (U)		
1/24/2022		0.944 (U)			0.668 (U)	0.807 (U)
Mean	1.1	1.422	0.8934	2.247	1.945	1.392
Std. Dev.	0.5247	0.4014	0.3853	0.8871	0.7088	0.6017
Upper Lim.	1.442	1.684	1.144	2.824	2.406	1.784

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
Lower Lim.	0.7588	1.161	0.6427	1.669	1.484	1.001

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100	B-101D	B-102D	B-104D
8/30/2016	0.919 (U)	1.33				
12/6/2016	0.407 (U)	0.828 (U)				
3/28/2017		1.06				
3/29/2017	0.28 (U)					
7/11/2017	0.209 (U)	0.62 (U)				
10/24/2017	0.615 (U)	1.21				
2/27/2018	1.05 (U)	1.79				
7/10/2018	0.363 (U)					
7/11/2018		1.81				
11/6/2018	0.577 (U)	1.13				
8/27/2019		1.55				
8/28/2019	0.815 (U)					
10/16/2019	0.999 (U)					
10/17/2019		0.702 (U)				
3/3/2020	0.481 (U)	1.37				
8/11/2020		0.819 (U)				
8/12/2020	0.721 (U)					
8/17/2020			1.4 (U)			
9/22/2020		1.15 (U)				
9/23/2020	0.8 (U)					
9/25/2020			0.799 (U)			
12/9/2020						15.2
12/17/2020					1.22 (U)	
1/11/2021					0.635 (U)	
1/12/2021				1.91		17
3/2/2021	0.751 (U)	1.29 (U)				
3/4/2021					0.789 (U)	14.5
3/5/2021				2.17		
3/8/2021			0.168 (U)			
9/10/2021		1.28			1.74	
9/13/2021	0.916 (U)		0.774 (U)	1.8		
9/14/2021						9.6
1/21/2022			0.769 (U)			
1/24/2022						11.9
1/25/2022	0.356 (U)					
1/26/2022		0.789 (U)		1.21		
1/27/2022					0.628 (U)	
9/8/2022			0.643 (U)			
Mean	0.6412	1.171	0.7588	1.773	1.002	13.64
Std. Dev.	0.2687	0.3608	0.3938	0.4058	0.4775	2.907
Upper Lim.	0.816	1.405	1.3	2.694	1.803	18.51
Lower Lim.	0.4664	0.9357	0.2178	0.8511	0.2022	8.768

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-106D	B-107D	B-108D	B-109D	B-111D	B-56
8/17/2020						1.15 (U)
9/28/2020						1.39
12/9/2020		1.49	1.31 (U)		12.3	
12/17/2020	0.952 (U)					
1/12/2021					9.63	
1/13/2021				11.8		
3/3/2021						1.01 (U)
3/4/2021	0.681 (U)	2.14	2.02			
3/5/2021					9.05	
3/8/2021				12.1		
9/10/2021				9.45		
9/13/2021	0.625 (U)	0.813 (U)				0.854 (U)
9/14/2021			0.917 (U)		4.39	
1/20/2022				16.2		
1/24/2022		1.14 (U)	0.812 (U)		5.68	
1/25/2022	0.454 (U)					
1/27/2022						0.831 (U)
Mean	0.678	1.396	1.265	12.39	8.21	1.047
Std. Dev.	0.2066	0.568	0.5472	2.804	3.18	0.231
Upper Lim.	1.147	2.685	2.507	18.75	13.54	1.434
Lower Lim.	0.2089	0.1062	0.02236	6.021	2.882	0.6598

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-77	B-82	B-83	B-88
1/28/2019		2.14 (U)				
1/30/2019	1.97 (U)					
10/21/2019	1.82			0.63 (U)	0.792 (U)	
10/22/2019		1.28 (U)				
10/24/2019			1.87			
8/13/2020	1.63		2.17			
8/14/2020					0.95 (U)	
8/17/2020				0.662 (U)		2.47
9/24/2020	1.28 (U)		0.761 (U)			
9/25/2020					0.0359 (U)	0.925 (U)
9/28/2020				0.747 (U)		
3/4/2021			2.16		1.15 (U)	
3/5/2021						2.84
3/12/2021	1.18 (U)					
9/9/2021	1.7					
9/13/2021						0.771 (U)
9/14/2021		1.68	0.617 (U)	1.03 (U)		
9/16/2021					0.442 (U)	
1/20/2022	1.71	0.846 (U)	0.92			
1/21/2022					0.549 (U)	
1/25/2022				0.33 (U)		
1/27/2022						1.18
9/9/2022	1.96					
Mean	1.656	1.487	1.416	0.6798	0.6532	1.637
Std. Dev.	0.2907	0.553	0.7269	0.2512	0.3977	0.9496
Upper Lim.	1.964	2.742	2.525	1.101	1.199	3.228
Lower Lim.	1.348	0.231	0.5185	0.2589	0.1069	0.04599

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93
8/19/2020	1.19 (U)
9/28/2020	1.54
3/9/2021	0.786 (U)
9/15/2021	1.84
1/26/2022	0.758 (U)
Mean	1.223
Std. Dev.	0.4716
Upper Lim.	2.013
Lower Lim.	0.4326

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	1	0.06 (J)			0.06 (J)	
9/1/2016			0.02 (J)			
9/6/2016				0.17 (J)		0.11 (J)
12/6/2016	1.3	0.06 (J)			0.1 (J)	
12/7/2016			0.16 (J)	0.3		0.11 (J)
3/29/2017	1.5	0.04 (J)	0.1 (J)		0.02 (J)	
3/30/2017				0.12 (J)		<0.1
7/12/2017	1.7	0.03 (J)	0.2 (J)	0.13 (J)	<0.1	0.07 (J)
10/24/2017	2.1	<0.1				
10/25/2017			0.6		<0.1	0.26 (J)
11/15/2017	1.4			0.44		
2/27/2018	2.3	<0.1	0.34		<0.1	
2/28/2018				0.18		<0.1
7/11/2018			<0.1		<0.1	<0.1
11/6/2018	2	<0.1				
11/7/2018			<0.3 (J)	<0.3 (J)	<0.1	<0.1
3/12/2019	1.7	0.052 (J)	0.065 (J)			
3/13/2019				0.13 (J)	0.042 (J)	
3/14/2019						0.057 (J)
8/27/2019	1.4	<0.1	<0.1		<0.1	
8/28/2019				0.091 (J)		<0.1
10/15/2019	1.4	<0.1	<0.1			
10/16/2019				0.14 (J)	0.052 (J)	
10/17/2019						0.079 (J)
3/2/2020		0.064 (J)	0.071 (J)			
3/3/2020	1.5			0.078 (J)	<0.1	<0.1
8/11/2020	1.4	<0.1	<0.1		<0.1	
8/12/2020				0.051 (J)		
8/13/2020						<0.1
9/22/2020		<0.1	<0.1		<0.1	
9/23/2020				0.058 (J)		<0.1
9/24/2020	0.97					
3/2/2021		<0.1		0.084 (J)	<0.1	<0.1
3/3/2021			0.085 (J)			
3/4/2021	1.8					
9/9/2021		<0.1	0.099 (J)	0.083 (J)	<0.1	<0.1
9/10/2021	2.2					
1/24/2022						<0.1
1/25/2022		<0.1	0.093 (J)	0.063 (J)	<0.1	
1/26/2022	1.8					
9/13/2022					0.059 (J)	0.065 (J)
9/15/2022	0.84	0.064 (J)	0.078 (J)	0.095 (J)		
Mean	1.573	0.08059	0.1506	0.1478	0.08517	0.1028
Std. Dev.	0.4167	0.02524	0.1381	0.1056	0.02588	0.04206
Upper Lim.	1.825	0.1	0.2	0.1896	0.1	0.11
Lower Lim.	1.321	0.052	0.078	0.08406	0.059	0.079

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.75				
9/2/2016				0.66	0.07 (J)	0.3
9/7/2016	0.32					
12/7/2016		0.37		0.66		
12/8/2016	0.31				0.14 (J)	0.12 (J)
3/29/2017		0.35		0.34		0.11 (J)
3/30/2017	0.1 (J)		0.06 (J)		<0.1	
5/11/2017			0.06 (J)			
6/15/2017			0.07 (J)			
7/11/2017			0.04 (J)			
7/12/2017	0.27 (J)	0.34		0.41	0.04 (J)	
7/13/2017						0.09 (J)
10/24/2017			0.43			
10/25/2017	0.49	0.9		0.68	0.34	0.25 (J)
2/27/2018			0.28			
2/28/2018	0.54	1.2		0.76	<0.1	<0.1
7/11/2018	0.15 (J)	0.37	0.6	1.3	<0.1	
7/12/2018						0.13 (J)
11/6/2018			<0.1			
11/7/2018	<0.3 (J)	<0.3 (J)		<0.3 (J)	<0.1	<0.1
3/12/2019			0.052 (J)			
3/13/2019	0.084 (J)	0.22 (J)		0.45	0.043 (J)	
3/14/2019						0.042 (J)
8/27/2019	0.24 (J)		<0.1			
8/28/2019		0.2				
8/29/2019				0.78	0.079 (J)	0.054 (J)
10/16/2019		0.23 (J)				
10/17/2019			0.042 (J)	0.26 (J)	<0.1	
10/18/2019	0.086 (J)					<0.1
3/3/2020		0.056 (J)	<0.1		<0.1	<0.1
3/4/2020	<0.1			1.5		
8/11/2020		0.2	<0.1			
8/13/2020				0.9		
8/14/2020	0.069 (J)				<0.1	<0.1
9/22/2020		0.084 (J)		0.15		
9/23/2020			<0.1			
9/24/2020	0.056 (J)				<0.1	<0.1
3/2/2021		0.19	<0.1	1.4		
3/3/2021	0.085 (J)				<0.1	<0.1
9/9/2021		0.18	0.053 (J)		<0.1	
9/10/2021				0.25		<0.1
9/13/2021	0.063 (J)					
1/20/2022			<0.1		<0.1	<0.1
1/21/2022				1.3		
1/24/2022	<0.1					
1/25/2022		0.16				
9/14/2022	0.1	0.18				
9/15/2022				0.69	0.087 (J)	
9/16/2022						0.068 (J)
9/20/2022			0.076 (J)			
Mean	0.1924	0.3489	0.1368	0.7106	0.1055	0.1147
Std. Dev.	0.1496	0.3011	0.1501	0.4226	0.06279	0.06261

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
Upper Lim.	0.31	0.449	0.28	0.9663	0.14	0.12
Lower Lim.	0.084	0.1721	0.053	0.4549	0.079	0.09

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						1
9/1/2016				1.8	1.5	
9/7/2016			0.02 (J)			
12/6/2016						0.76
12/8/2016			0.06 (J)	1.1	1.6	
3/28/2017		0.17 (J)				1.2
3/30/2017	0.12 (J)				0.86	
3/31/2017			<0.1	0.88		
5/12/2017	0.36	<0.1				
6/15/2017	0.21 (J)	0.02 (J)				
7/11/2017		0.02 (J)				0.7
7/12/2017	0.22 (J)					
7/13/2017			<0.1	0.84	1.1	
10/24/2017		<0.1				
10/25/2017			<0.1			1.4
10/26/2017	0.66			1	1.7	
11/15/2017		0.79				
2/27/2018		<0.1				1.3
2/28/2018			<0.1			
3/1/2018	0.18			1.4		
3/2/2018					1.1	
7/11/2018			<0.1			
7/12/2018	0.25 (J)			0.96	0.65	
11/6/2018		<0.1				<0.3 (J)
11/7/2018			<0.1	0.74	0.63	
11/8/2018	<0.3 (J)					
3/12/2019		0.082 (J)				0.31
3/14/2019	0.092 (J)		<0.1	1.6	1.4	
8/27/2019		<0.1				0.32
8/28/2019			<0.1			
8/29/2019	0.095 (J)			0.52	0.78	
10/15/2019		<0.1				
10/16/2019						0.32
10/17/2019			<0.1	0.46		
10/18/2019	0.079 (J)				0.46	
3/2/2020		<0.1				0.33
3/4/2020	0.075 (J)		<0.1	0.74	0.7	
8/12/2020		<0.1		0.22		0.13
8/13/2020	0.1		<0.1		0.47	
9/22/2020		<0.1	<0.1			0.12
9/23/2020				0.11	0.32	
9/24/2020	0.075 (J)					
3/1/2021		<0.1				
3/2/2021						0.15
3/3/2021	0.063 (J)		<0.1	0.71	0.67	
9/9/2021	0.084 (J)					
9/10/2021		<0.1		0.22	0.47	0.16
9/13/2021			<0.1			
1/20/2022	<0.1		<0.1			
1/21/2022				0.64		
1/24/2022		<0.1			0.59	0.19
9/13/2022			<0.1	0.47	0.43	

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
9/14/2022						0.27
9/19/2022		0.061 (J)				
9/20/2022	0.11					
Mean	0.1763	0.1302	0.09333	0.8006	0.8572	0.5271
Std. Dev.	0.1487	0.1679	0.02058	0.4638	0.4371	0.4418
Upper Lim.	0.2073	0.17	0.1	1.081	1.076	0.6408
Lower Lim.	0.0939	0.082	0.06	0.52	0.5784	0.2247

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100	B-101D	B-102D	B-104D
8/30/2016	0.39	0.78				
12/6/2016	0.47	1.1				
3/28/2017		1.1				
3/29/2017	0.51					
7/11/2017	0.2 (J)	1.1				
10/24/2017	0.82	1.7				
2/27/2018	0.59	1.2				
7/11/2018		1.3				
11/6/2018	0.35	1.1				
3/12/2019	0.35	0.97				
8/27/2019		0.68				
8/28/2019	0.098 (J)					
10/16/2019	0.14 (J)					
10/17/2019		1.2				
3/3/2020	<0.1	1.4				
8/11/2020		1.3				
8/12/2020	0.056 (J)					
8/17/2020			<0.1			
9/22/2020		0.99				
9/23/2020	<0.1					
9/25/2020			<0.1			
12/9/2020						0.33
12/17/2020					0.079 (J)	
1/11/2021					0.077 (J)	
1/12/2021				0.052 (J)		0.36
3/2/2021	0.059 (J)	0.93				
3/4/2021					0.11	0.43
3/5/2021				0.053 (J)		
3/8/2021			<0.1			
9/10/2021		2			0.083 (J)	
9/13/2021	0.069 (J)		<0.1	0.051 (J)		
9/14/2021						0.5
1/21/2022			<0.1			
1/24/2022						0.28
1/25/2022	<0.1					
1/26/2022		1.2		<0.1		
1/27/2022					0.062 (J)	
9/8/2022			0.072 (J)			
9/13/2022						0.35
9/15/2022	0.077 (J)				0.11	
9/16/2022				0.099 (J)		
9/19/2022		0.8				
Mean	0.2635	1.158	0.09533	0.071	0.08683	0.375
Std. Dev.	0.2284	0.3195	0.01143	0.02603	0.0193	0.07817
Upper Lim.	0.3171	1.352	0.1	0.1	0.1133	0.4824
Lower Lim.	0.09257	0.965	0.072	0.051	0.06032	0.2676

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
12/9/2020		<0.1	<0.1		0.33	
12/17/2020	0.052 (J)					
1/12/2021					0.32	
1/13/2021				0.17		
3/4/2021	0.055 (J)	<0.1	<0.1			
3/5/2021					0.51	
3/8/2021				0.14		
4/14/2021						0.99
9/10/2021				0.15		
9/13/2021	0.052 (J)	<0.1				
9/14/2021			<0.1		0.57	1
1/20/2022				0.11		0.59
1/24/2022		<0.1	<0.1		0.38	
1/25/2022	<0.1					
9/14/2022		0.053 (J)			0.38	0.63
9/15/2022			0.061 (J)			
9/16/2022	0.08 (J)					
9/20/2022				0.15		
Mean	0.0678	0.0906	0.0922	0.144	0.415	0.8025
Std. Dev.	0.0215	0.02102	0.01744	0.02191	0.1017	0.2229
Upper Lim.	0.07945	0.1	0.1	0.1807	0.5548	1.484
Lower Lim.	0.04005	0.053	0.061	0.1073	0.2752	0.4086

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62	B-63	B-66	B-77
1/28/2019				0.45		
1/30/2019			0.43		0.51	
10/21/2019			0.23 (J)		0.3 (J)	
10/22/2019				0.2 (J)		
10/24/2019						0.096 (J)
8/13/2020			0.11			<0.1
8/17/2020		0.19				
9/24/2020			0.093 (J)			<0.1
9/28/2020		0.098 (J)				
3/3/2021		0.34				
3/4/2021						<0.1
3/12/2021			0.11			
4/15/2021	<0.1					
9/9/2021			0.14			
9/13/2021		0.2				
9/14/2021	<0.1			0.16	0.22	0.078 (J)
1/20/2022	<0.1		0.099 (J)	0.12		<0.1
1/25/2022					0.12	
1/27/2022		0.21				
9/8/2022			0.13			
9/13/2022						0.08 (J)
9/14/2022				0.14		
9/16/2022		0.22			0.18	
9/19/2022	0.057 (J)					
Mean	0.08925	0.2097	0.1678	0.214	0.266	0.09343
Std. Dev.	0.0215	0.07752	0.1145	0.1352	0.1513	0.009981
Upper Lim.	0.1	0.3162	0.43	0.4452	0.5195	0.1
Lower Lim.	0.057	0.1032	0.093	0.06354	0.01253	0.078

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-82	B-83	B-88	B-93
10/21/2019	0.2 (J)	0.13 (J)		
8/14/2020		0.05 (J)		
8/17/2020	<0.1		<0.1	
8/19/2020				0.32
9/25/2020		<0.1	<0.1	
9/28/2020	<0.1			0.3
3/4/2021		0.071 (J)		
3/5/2021			<0.1	
3/9/2021				0.34
9/13/2021			<0.1	
9/14/2021	0.052 (J)			
9/15/2021				0.34
9/16/2021		0.066 (J)		
1/21/2022		<0.1		
1/25/2022	<0.1			
1/26/2022				0.41
1/27/2022			<0.1	
9/12/2022				0.4
9/13/2022		0.081 (J)		
9/16/2022	0.079 (J)		0.054 (J)	
Mean	0.1052	0.08543	0.09233	0.3517
Std. Dev.	0.05017	0.02668	0.01878	0.04401
Upper Lim.	0.1527	0.1049	0.1	0.4121
Lower Lim.	0.03333	0.04706	0.054	0.2912

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	<0.001	<0.001			<0.001	
9/1/2016			<0.001			
9/6/2016				<0.001		<0.001
12/6/2016	<0.001	<0.001			<0.001	
12/7/2016			<0.001	<0.001		0.0002 (J)
3/29/2017	<0.001	<0.001	<0.001		<0.001	
3/30/2017				0.0002 (J)		0.0001 (J)
7/12/2017	<0.001	<0.001	<0.001	<0.001	<0.001	0.0001 (J)
10/24/2017	<0.001	<0.001				
10/25/2017			<0.001		<0.001	<0.001
11/15/2017				<0.001		
2/27/2018	<0.001	<0.001	<0.001		<0.001	
2/28/2018				<0.001		<0.001
7/11/2018			<0.001		<0.001	<0.001
11/6/2018	<0.001	<0.001				
11/7/2018			<0.001	<0.001	<0.001	<0.001
8/27/2019	0.00024 (J)	0.00012 (J)	0.0001 (J)		<0.001	
8/28/2019				<0.001		5.9E-05 (J)
9/17/2019			<0.001			
10/15/2019	0.00014 (J)	7.6E-05 (J)	<0.001			
10/16/2019				<0.001	<0.001	
10/17/2019						<0.001
3/2/2020		0.00015 (J)	<0.001			
3/3/2020	0.00011 (J)			<0.001	<0.001	<0.001
8/11/2020	7E-05 (J)	5.3E-05 (J)	<0.001		9.6E-05 (J)	
8/12/2020				<0.001		
8/13/2020						0.0012 (J)
9/22/2020		0.0001 (J)	0.00011 (J)		4.4E-05 (J)	
9/23/2020				9.8E-05 (J)		8.2E-05 (J)
9/24/2020	0.00013 (J)					
3/2/2021		<0.001		<0.001	8.3E-05 (J)	<0.001
3/3/2021			<0.001			
3/4/2021	9.2E-05 (J)					
9/9/2021		<0.001	<0.001	<0.001	<0.001	<0.001
9/10/2021	<0.001					
1/24/2022						<0.001
1/25/2022		<0.001	<0.001	<0.001	<0.001	
1/26/2022	<0.001					
9/13/2022					<0.001	<0.001
9/15/2022	<0.001	<0.001	<0.001	<0.001		
Mean	0.0006739	0.0007187	0.0009006	0.0008936	0.0008366	0.0007495
Std. Dev.	0.0004362	0.0004314	0.0002894	0.0002913	0.0003639	0.0004302
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.0012
Lower Lim.	0.00011	0.0001	0.00011	0.0002	9.6E-05	0.0001

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-23
9/1/2016		<0.001				
9/2/2016				<0.001	0.0002 (J)	
9/7/2016	<0.001					
12/7/2016		<0.001		<0.001		
12/8/2016	<0.001				<0.001	
3/29/2017		<0.001		<0.001		
3/30/2017	0.0001 (J)		0.0001 (J)		0.0004 (J)	<0.001
5/11/2017			9E-05 (J)			
5/12/2017						<0.001
6/15/2017			0.0001 (J)			<0.001
7/11/2017			<0.001			
7/12/2017	<0.001	<0.001		<0.001	0.0001 (J)	<0.001
10/24/2017			<0.001			
10/25/2017	<0.001	<0.001		<0.001	<0.001	
10/26/2017						<0.001
2/27/2018			<0.001			
2/28/2018	<0.001	<0.001		<0.001	<0.001	
3/1/2018						<0.001
7/11/2018	<0.001	<0.001	<0.001	<0.001	<0.001	
7/12/2018						<0.001
11/6/2018			<0.001			
11/7/2018	<0.001	<0.001		<0.001	<0.001	
11/8/2018						<0.001
8/27/2019	9E-05 (J)		6E-05 (J)			
8/28/2019		0.00026 (J)				
8/29/2019				0.00015 (J)	0.00023 (J)	6.6E-05 (J)
10/16/2019		<0.001				
10/17/2019			8.6E-05 (J)	9.7E-05 (J)	4.6E-05 (J)	
10/18/2019	7.4E-05 (J)					<0.001
3/3/2020		7E-05 (J)	<0.001		0.00015 (J)	
3/4/2020	0.00013 (J)			0.00068 (J)		<0.001
8/11/2020		5.3E-05 (J)	6.4E-05 (J)			
8/13/2020				0.00044 (J)		<0.001
8/14/2020	0.00017 (J)				<0.001	
9/22/2020		0.00016 (J)		0.00013 (J)		
9/23/2020			9.4E-05 (J)			
9/24/2020	7.9E-05 (J)				0.00014 (J)	<0.001
3/2/2021		4.5E-05 (J)	0.00014 (J)	0.00047 (J)		
3/3/2021	0.00015 (J)				<0.001	<0.001
9/9/2021		<0.001	<0.001		<0.001	<0.001
9/10/2021				<0.001		
9/13/2021	<0.001					
1/20/2022			<0.001		<0.001	<0.001
1/21/2022				<0.001		
1/24/2022	<0.001					
1/25/2022		<0.001				
9/14/2022	<0.001	<0.001				
9/15/2022				<0.001	<0.001	
9/20/2022			<0.001			<0.001
Mean	0.0006349	0.0007405	0.0005726	0.0007628	0.0006627	0.0009451
Std. Dev.	0.0004504	0.000417	0.0004676	0.0003566	0.0004214	0.0002265
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-23
Lower Lim.	0.0001	0.00016	9E-05	0.00044	0.00015	6.6E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016						<0.001
8/31/2016					0.0002 (J)	
9/1/2016			0.0005 (J)	0.0008 (J)		
9/7/2016		0.0002 (J)				
12/6/2016					0.0004 (J)	<0.001
12/8/2016		0.0002 (J)	<0.001	0.0019 (J)		
3/28/2017	0.0002 (J)				<0.001	
3/29/2017						0.0001 (J)
3/30/2017				0.0035 (J)		
3/31/2017		0.0004 (J)	0.0009 (J)			
5/12/2017	<0.001					
6/15/2017	<0.001					
7/11/2017	<0.001				<0.001	<0.001
7/13/2017		0.0004 (J)	0.0007 (J)	0.002 (J)		
10/24/2017	<0.001					<0.001
10/25/2017		0.0002 (J)			0.0024 (J)	
10/26/2017			0.0009 (J)	0.0022 (J)		
2/27/2018	<0.001				<0.001	<0.001
2/28/2018		<0.001				
3/1/2018			<0.001			
3/2/2018				<0.001		
7/11/2018		0.00052 (J)				
7/12/2018			0.001 (J)	0.0014 (J)		
11/6/2018	<0.001				<0.001	<0.001
11/7/2018		<0.005 (J)	<0.005 (J)	<0.005 (J)		
8/27/2019	4.9E-05 (J)				5.1E-05 (J)	
8/28/2019		0.00036 (J)				8.2E-05 (J)
8/29/2019			0.0006 (J)	0.001 (J)		
10/15/2019	0.0001 (J)					
10/16/2019					8.5E-05 (J)	0.00029 (J)
10/17/2019		0.00026 (J)	0.0011 (J)			
10/18/2019				0.00095 (J)		
3/2/2020	<0.001				5.1E-05 (J)	
3/3/2020						0.00023 (J)
3/4/2020		0.0001 (J)	0.00088 (J)	0.0012 (J)		
8/12/2020	<0.001		0.0004 (J)		6.3E-05 (J)	0.0007 (J)
8/13/2020		0.0016 (J)		0.00092 (J)		
9/22/2020	<0.001	0.00074 (J)			4.8E-05 (J)	
9/23/2020			0.00053 (J)	0.001 (J)		0.00011 (J)
3/1/2021	0.00012 (J)					
3/2/2021					8E-05 (J)	0.00027 (J)
3/3/2021		0.00024 (J)	0.0007 (J)	0.0011		
9/10/2021	<0.001		<0.001	0.00099 (J)	<0.001	
9/13/2021		<0.001				<0.001
1/20/2022		<0.001				
1/21/2022			<0.001			
1/24/2022	<0.001			0.0011	<0.001	
1/25/2022						<0.001
9/13/2022		<0.001	<0.001	0.00093 (J)		
9/14/2022					<0.001	
9/15/2022						<0.001
9/19/2022	<0.001					

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
Mean	0.0007793	0.0008365	0.001071	0.001588	0.0006486	0.0006739
Std. Dev.	0.0003958	0.001151	0.001035	0.001115	0.0006457	0.0004052
Upper Lim.	0.001	0.0004369	0.001	0.002	0.001	0.001
Lower Lim.	0.00012	0.0001603	0.0006	0.00095	6.3E-05	0.00011

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-100	B-101D	B-102D	B-104D	B-107D
8/30/2016	<0.001					
12/6/2016	<0.001					
3/28/2017	<0.001					
7/11/2017	<0.001					
10/24/2017	<0.001					
2/27/2018	<0.001					
7/11/2018	<0.001					
11/6/2018	<0.001					
8/27/2019	<0.001					
10/17/2019	<0.001					
3/3/2020	0.00017 (J)					
8/11/2020	<0.001					
8/17/2020		8.8E-05 (J)				
9/22/2020	0.00015 (J)					
9/25/2020		0.00021 (J)				
12/9/2020					5.1E-05 (J)	4.4E-05 (J)
12/17/2020				3.7E-05 (J)		
1/11/2021				5E-05 (J)		
1/12/2021			<0.001		<0.001	
3/2/2021	0.00028 (J)					
3/4/2021				5.9E-05 (J)	<0.001	<0.001
3/5/2021			6.5E-05 (J)			
3/8/2021		0.00018 (J)				
9/10/2021	<0.001			<0.001		
9/13/2021		<0.001	<0.001			<0.001
9/14/2021					<0.001	
1/21/2022		<0.001				
1/24/2022					<0.001	<0.001
1/26/2022	<0.001		<0.001			
1/27/2022				<0.001		
9/8/2022		<0.001				
9/13/2022					<0.001	
9/14/2022						<0.001
9/15/2022				<0.001		
9/16/2022			<0.001			
9/19/2022	<0.001					
Mean	0.0008588	0.0005797	0.000813	0.0005243	0.0008418	0.0008088
Std. Dev.	0.0003153	0.0004622	0.0004181	0.0005211	0.0003874	0.0004275
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00028	8.8E-05	6.5E-05	3.7E-05	5.1E-05	4.4E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-111D	B-115D	B-120D	B-56	B-63	B-82
1/28/2019					<0.001	
9/11/2019					4.7E-05 (J)	
9/23/2019						0.00016 (J)
10/21/2019						<0.001
10/22/2019					7.3E-05 (J)	
8/17/2020				0.00022 (J)		5.9E-05 (J)
9/28/2020				9.1E-05 (J)		0.00011 (J)
12/9/2020	5.8E-05 (J)					
1/12/2021	5.1E-05 (J)					
3/3/2021				0.0001 (J)		
3/5/2021	<0.001					
4/14/2021		0.00032 (J)				
4/15/2021			0.00019 (J)			
9/13/2021				<0.001		
9/14/2021	<0.001	<0.001	<0.001		<0.001	<0.001
1/20/2022		<0.001	<0.001		<0.001	
1/24/2022	<0.001					
1/25/2022						<0.001
1/27/2022				<0.001		
9/14/2022	<0.001	<0.001			<0.001	
9/16/2022				<0.001		<0.001
9/19/2022			<0.001			
Mean	0.0006848	0.00083	0.0007975	0.0005685	0.0006867	0.0006184
Std. Dev.	0.0004883	0.00034	0.000405	0.0004749	0.0004855	0.0004768
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5.1E-05	0.00032	0.00019	9.1E-05	4.7E-05	5.9E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93
10/21/2019	0.00012 (J)		
8/14/2020	0.00092 (J)		
8/17/2020		0.00081 (J)	
8/19/2020			0.00012 (J)
9/25/2020	6.5E-05 (J)	0.00035 (J)	
9/28/2020			0.00012 (J)
3/4/2021	0.00017 (J)		
3/5/2021		0.012	
3/9/2021			<0.001
9/13/2021		<0.001	
9/15/2021			<0.001
9/16/2021	<0.001		
1/21/2022	<0.001		
1/26/2022			<0.001
1/27/2022		0.0022	
9/12/2022			<0.001
9/13/2022	<0.001		
9/16/2022		<0.001	
Mean	0.0006107	0.002893	0.0007067
Std. Dev.	0.0004624	0.004503	0.0004544
Upper Lim.	0.001	0.006095	0.001
Lower Lim.	6.5E-05	0.0002108	0.00012

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	0.0022 (J)	0.0022 (J)			0.0031 (J)	
9/1/2016			<0.03			
9/6/2016				0.0029 (J)		0.0064 (J)
12/6/2016	<0.03	0.0027 (J)			0.0042 (J)	
12/7/2016			<0.03	0.003 (J)		0.0066 (J)
3/29/2017	0.002 (J)	0.0021 (J)	<0.03		0.0041 (J)	
3/30/2017				0.0035 (J)		0.0061 (J)
7/12/2017	0.0019 (J)	0.0022 (J)	<0.03	0.0028 (J)	0.0036 (J)	0.006 (J)
10/24/2017	0.0022 (J)	0.0024 (J)				
10/25/2017			<0.03		0.0032 (J)	0.0061 (J)
11/15/2017				0.0028 (J)		
2/27/2018	0.0037 (J)	0.0022 (J)	0.00097 (J)		0.0035 (J)	
2/28/2018				<0.03		0.0062 (J)
7/11/2018			<0.03		0.0034 (J)	0.0058 (J)
11/6/2018	<0.03	<0.03				
11/7/2018			<0.03	<0.03	<0.03	<0.05 (O)
8/27/2019	0.0053 (J)	0.0023 (J)	0.0011 (J)		0.0038 (J)	
8/28/2019				0.0033 (J)		0.0063 (J)
9/17/2019			0.0011 (J)			
10/15/2019	0.0051 (J)	0.0019 (J)	0.00091 (J)			
10/16/2019				0.0029 (J)	0.0032 (J)	
10/17/2019						0.0064 (J)
3/2/2020		0.0023 (J)	<0.03			
3/3/2020	0.0049 (J)			0.0035 (J)	0.008 (J)	0.0059 (J)
8/11/2020	0.0033 (J)	0.0028 (J)	0.0011 (J)		0.0035 (J)	
8/12/2020				0.0034 (J)		
8/13/2020						0.0089 (J)
9/22/2020		0.0019 (J)	<0.03		0.0038 (J)	
9/23/2020				0.0033 (J)		0.006 (J)
9/24/2020	0.0049 (J)					
3/2/2021		0.0017 (J)		0.0033 (J)	0.004 (J)	0.0051 (J)
3/3/2021			<0.03			
3/4/2021	0.0042 (J)					
9/9/2021		0.0029 (J)	<0.03	0.0036 (J)	0.0044 (J)	0.0057 (J)
9/10/2021	0.0051 (J)					
1/24/2022						0.0051 (J)
1/25/2022		0.0021 (J)	<0.03	0.0037 (J)	0.0043 (J)	
1/26/2022	0.0059 (J)					
9/13/2022					0.0043 (J)	0.0057 (J)
9/15/2022	0.0053 (J)	0.0024 (J)	0.00088 (J)	0.004 (J)		
Mean	0.005375	0.003069	0.01034	0.00475	0.004671	0.006144
Std. Dev.	0.003986	0.003198	0.006786	0.004016	0.002882	0.0008469
Upper Lim.	0.006599	0.0028	0.015	0.004	0.0044	0.0064
Lower Lim.	0.002973	0.0019	0.0011	0.0029	0.0034	0.0057

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.0034 (J)				
9/2/2016				0.0021 (J)	0.0057 (J)	0.0046 (J)
9/7/2016	<0.03					
12/7/2016		0.0034 (J)		0.005 (J)		
12/8/2016	<0.03				0.0054 (J)	0.0047 (J)
3/29/2017		0.0031 (J)		0.0021 (J)		0.0043 (J)
3/30/2017	<0.03		0.0807		0.0065 (J)	
5/11/2017			0.085			
6/15/2017			0.0781			
7/11/2017			0.0731			
7/12/2017	<0.03	0.0032 (J)		0.0019 (J)	0.0057 (J)	
7/13/2017						0.0044 (J)
10/24/2017			0.0995			
10/25/2017	<0.03	0.0031 (J)		0.0022 (J)	0.006 (J)	0.0042 (J)
2/27/2018			0.0875			
2/28/2018	<0.03	0.0031 (J)		0.0019 (J)	0.0061 (J)	0.0043 (J)
7/11/2018	<0.03	0.0034 (J)	0.033 (J)	0.0022 (J)	0.0057 (J)	
7/12/2018						0.0036 (J)
11/6/2018			<0.03			
11/7/2018	<0.03	<0.03		<0.03	<0.03	<0.03
8/27/2019	0.00089 (J)		0.032			
8/28/2019		0.0032 (J)				
8/29/2019				0.0093 (J)	0.0061 (J)	0.0035 (J)
10/16/2019		0.0026 (J)				
10/17/2019			0.029 (J)	0.0075 (J)	0.0063 (J)	
10/18/2019	0.00096 (J)					0.0041 (J)
3/3/2020		0.0034 (J)	0.026 (J)		0.0065 (J)	0.0046 (J)
3/4/2020	0.0011 (J)			0.019 (J)		
8/11/2020		0.0031 (J)	0.028 (J)			
8/13/2020				0.012 (J)		
8/14/2020	0.0015 (J)				0.0058 (J)	0.0039 (J)
9/22/2020		0.0034 (J)		0.0026 (J)		
9/23/2020			0.022 (J)			
9/24/2020	0.00096 (J)				0.0062 (J)	0.0037 (J)
3/2/2021		0.003 (J)	0.023 (J)	0.011 (J)		
3/3/2021	0.0011 (J)				0.0054 (J)	0.0038 (J)
9/9/2021		0.0035 (J)	0.024 (J)		0.006 (J)	
9/10/2021				0.0023 (J)		0.0039 (J)
9/13/2021	<0.03					
1/20/2022			0.024 (J)		0.0058 (J)	0.0032 (J)
1/21/2022				0.012 (J)		
1/24/2022	<0.03					
1/25/2022		0.0031 (J)				
9/14/2022	<0.03	0.0032 (J)				
9/15/2022				0.0096 (J)	0.0069 (J)	
9/16/2022						0.0033 (J)
9/20/2022			0.021 (J)			
Mean	0.01009	0.003894	0.04594	0.006924	0.006535	0.004653
Std. Dev.	0.006856	0.00287	0.0297	0.005464	0.002217	0.002705
Upper Lim.	0.015	0.0034	0.0807	0.012	0.0065	0.0046
Lower Lim.	0.0011	0.0031	0.023	0.0021	0.0057	0.0036

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						0.0026 (J)
9/1/2016				0.0854	0.125	
9/7/2016			0.012 (J)			
12/6/2016						0.0046 (J)
12/8/2016			0.0118 (J)	0.0667	0.122	
3/28/2017		0.0031 (J)				0.0028 (J)
3/30/2017	0.0162 (J)				0.144	
3/31/2017			0.0119 (J)	0.0767		
5/12/2017	0.0036 (J)	0.0027 (J)				
6/15/2017	0.0063 (J)	0.0025 (J)				
7/11/2017		0.0022 (J)				0.0031 (J)
7/12/2017	0.0068 (J)					
7/13/2017			0.0116 (J)	0.0743	0.143	
10/24/2017		0.0024 (J)				
10/25/2017			0.0122 (J)			0.0055 (J)
10/26/2017	0.0049 (J)			0.071	0.115	
2/27/2018		0.0027 (J)				0.0066 (J)
2/28/2018			0.0122 (J)			
3/1/2018	0.0759			0.0772		
3/2/2018					0.129	
7/11/2018			0.01 (J)			
7/12/2018	0.0047 (J)			0.073	0.12	
11/6/2018		<0.03				<0.03
11/7/2018			<0.03	0.082	0.12	
11/8/2018	<0.03					
8/27/2019		0.0033 (J)				0.008 (J)
8/28/2019			0.01 (J)			
8/29/2019	0.0017 (J)			0.056	0.11	
10/15/2019		0.0029 (J)				
10/16/2019						0.006 (J)
10/17/2019			0.011 (J)	0.066		
10/18/2019	0.0039 (J)				0.11	
3/2/2020		0.0035 (J)				0.0079 (J)
3/4/2020	0.004 (J)		0.0091 (J)	0.063	0.12	
8/12/2020		0.0031 (J)		0.054		0.0067 (J)
8/13/2020	0.0052 (J)		0.011 (J)		0.098	
9/22/2020		0.0026 (J)	0.0099 (J)			0.0065 (J)
9/23/2020				0.046	0.1	
9/24/2020	0.0045 (J)					
3/1/2021		0.0035 (J)				
3/2/2021						0.0064 (J)
3/3/2021	0.014 (J)		0.0079 (J)	0.049	0.096	
9/9/2021	0.0081 (J)					
9/10/2021		0.0035 (J)		0.053	0.095	0.0071 (J)
9/13/2021			0.015 (J)			
1/20/2022	0.0029 (J)		0.0069 (J)			
1/21/2022				0.055		
1/24/2022		0.0038 (J)			0.11	0.0068 (J)
9/13/2022			0.0091 (J)	0.05	0.099	
9/14/2022						0.0081 (J)
9/19/2022		0.0037 (J)				
9/20/2022	0.0051 (J)					

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
Mean	0.01075	0.003781	0.01098	0.06461	0.1151	0.006481
Std. Dev.	0.01733	0.003031	0.002158	0.01243	0.01511	0.002885
Upper Lim.	0.014	0.0037	0.01233	0.07239	0.1245	0.008091
Lower Lim.	0.0039	0.0025	0.009624	0.05682	0.1056	0.004567

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100	B-101D	B-102D	B-104D
8/30/2016	0.005 (J)	0.0212 (J)				
12/6/2016	0.0066 (J)	0.0242 (J)				
3/28/2017		0.0249 (J)				
3/29/2017	0.0059 (J)					
7/11/2017	0.0045 (J)	0.022 (J)				
10/24/2017	0.0072 (J)	0.0281 (J)				
2/27/2018	0.0075 (J)	0.031 (J)				
7/11/2018		0.028 (J)				
11/6/2018	<0.03	<0.03				
8/27/2019		0.031				
8/28/2019	0.0048 (J)					
10/16/2019	0.0045 (J)					
10/17/2019		0.029 (J)				
3/3/2020	0.0052 (J)	0.028 (J)				
8/11/2020		0.032				
8/12/2020	0.0058 (J)					
8/17/2020			0.0013 (J)			
9/22/2020		0.025 (J)				
9/23/2020	0.0045 (J)					
9/25/2020			0.0027 (J)			
12/9/2020						0.039 (J)
12/17/2020					0.012 (J)	
1/11/2021					0.015 (J)	
1/12/2021				0.012 (J)		0.039
3/2/2021	0.0046 (J)	0.028 (J)				
3/4/2021					0.014 (J)	0.038
3/5/2021				0.015 (J)		
3/8/2021			0.0024 (J)			
9/10/2021		0.027 (J)			0.012 (J)	
9/13/2021	0.0034 (J)		0.0022 (J)	0.011 (J)		
9/14/2021						0.036
1/21/2022			0.0021 (J)			
1/24/2022						0.036
1/25/2022	0.0032 (J)					
1/26/2022		0.029 (J)		0.0098 (J)		
1/27/2022					0.013 (J)	
9/8/2022			0.0023 (J)			
9/13/2022						0.04
9/15/2022	0.0039 (J)				0.013 (J)	
9/16/2022				0.011 (J)		
9/19/2022		0.023 (J)				
Mean	0.005725	0.02626	0.002167	0.01176	0.01317	0.038
Std. Dev.	0.002765	0.004292	0.0004719	0.001972	0.001169	0.001673
Upper Lim.	0.00675	0.02895	0.002815	0.01506	0.01477	0.0403
Lower Lim.	0.004185	0.02357	0.001518	0.008456	0.01156	0.0357

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
12/9/2020		0.017 (J)	0.016 (J)		0.021 (J)	
12/17/2020	0.0048 (J)					
1/12/2021					0.021 (J)	
1/13/2021				0.016 (J)		
3/4/2021	0.0054 (J)	0.015 (J)	0.014 (J)			
3/5/2021					0.028 (J)	
3/8/2021				0.014 (J)		
4/14/2021						0.089
9/10/2021				0.013 (J)		
9/13/2021	0.0056 (J)	0.014 (J)				
9/14/2021			0.015 (J)		0.029 (J)	0.085
1/20/2022				0.014 (J)		0.081
1/24/2022		0.015 (J)	0.014 (J)		0.026 (J)	
1/25/2022	0.0055 (J)					
9/14/2022		0.015 (J)			0.02 (J)	0.082
9/15/2022			0.016 (J)			
9/16/2022	0.0054 (J)					
9/20/2022				0.013 (J)		
Mean	0.00534	0.0152	0.015	0.014	0.02417	0.08425
Std. Dev.	0.000313	0.001095	0.001	0.001225	0.003971	0.003594
Upper Lim.	0.005805	0.01704	0.01668	0.01605	0.02962	0.09241
Lower Lim.	0.004811	0.01336	0.01332	0.01195	0.01871	0.07609

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62	B-63	B-66	B-77
1/28/2019				<0.03		
1/30/2019			<0.03		<0.03	
9/11/2019			0.0078 (J)	0.0064 (J)		
9/12/2019					<0.03	
9/18/2019						0.0047 (J)
10/21/2019			0.0078 (J)		<0.03	
10/22/2019				0.0062 (J)		
10/24/2019						0.0036 (J)
8/13/2020			0.0087 (J)			0.0018 (J)
8/17/2020		0.0056 (J)				
9/24/2020			0.0084 (J)			0.00095 (J)
9/28/2020		0.005 (J)				
3/3/2021		0.0051 (J)				
3/4/2021						0.0011 (J)
3/12/2021			0.0087 (J)	0.0066 (J)		
4/15/2021	0.088					
9/9/2021			0.0094 (J)			
9/13/2021		0.0055 (J)				
9/14/2021	0.077			0.0064 (J)	<0.03	<0.03
1/20/2022	0.079		0.0092 (J)	0.0062 (J)		<0.03
1/25/2022					0.00073 (J)	
1/27/2022		0.0061 (J)				
9/8/2022			0.0085 (J)			
9/13/2022						0.0021 (JD)
9/14/2022				0.0072 (JD)		
9/16/2022		0.0057 (J)			<0.03	
9/19/2022	0.076					
Mean	0.08	0.0055	0.009278	0.007714	0.01262	0.005531
Std. Dev.	0.005477	0.000405	0.002213	0.003231	0.005826	0.005977
Upper Lim.	0.09244	0.006056	0.015	0.015	0.015	0.003715
Lower Lim.	0.06756	0.004944	0.0078	0.0062	0.00073	0.001092

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-82	B-83	B-88	B-93
9/23/2019	0.0039 (J)			
10/21/2019	0.0036 (J)	0.003 (J)		
8/14/2020		0.0045 (J)		
8/17/2020	0.0016 (J)		0.006 (J)	
8/19/2020				0.011 (J)
9/25/2020		0.0018 (J)	0.0016 (J)	
9/28/2020	0.001 (J)			0.011 (J)
3/4/2021		0.0024 (J)		
3/5/2021			0.029 (J)	
3/9/2021				0.012 (J)
9/13/2021			0.0017 (J)	
9/14/2021	0.001 (J)			
9/15/2021				0.011 (J)
9/16/2021		0.0021 (J)		
1/21/2022		0.0022 (J)		
1/25/2022	0.00082 (J)			
1/26/2022				0.013 (J)
1/27/2022			0.0066 (J)	
9/12/2022				0.013 (J)
9/13/2022		0.0027 (J)		
9/16/2022	0.00078 (J)		0.0021 (J)	
Mean	0.001814	0.002671	0.007833	0.01183
Std. Dev.	0.001352	0.0008976	0.0106	0.0009832
Upper Lim.	0.0039	0.003738	0.0202	0.013
Lower Lim.	0.00078	0.001605	0.0009269	0.011

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	7E-05 (J)	5E-05 (J)			5E-05 (J)	
9/1/2016			9E-05 (J)			
9/6/2016				<0.0002		<0.0002
12/6/2016	9E-05 (J)	8E-05 (J)			8E-05 (J)	
12/7/2016			<0.0002	9E-05 (J)		<0.0002
3/29/2017	8E-05 (J)	6E-05 (J)	0.00014 (J)		6E-05 (J)	
3/30/2017				7E-05 (J)		6E-05 (J)
7/12/2017	<0.0002	<0.0002	8E-05 (J)	<0.0002	<0.0002	<0.0002
10/24/2017	<0.0002	<0.0002				
10/25/2017			6E-05 (J)		<0.0002	<0.0002
11/15/2017				<0.0002		
2/27/2018	<0.0002	<0.0002	6E-05 (J)		<0.0002	
2/28/2018				<0.0002		<0.0002
7/11/2018			3.6E-05 (J)		<0.0002	<0.0002
11/6/2018	<0.0002	<0.0002				
11/7/2018			<0.0002	<0.0002	<0.0002	<0.0002
8/27/2019	<0.0002	<0.0002	<0.0002		<0.0002	
8/28/2019				<0.0002		<0.0002
9/17/2019			<0.0002			
10/15/2019	<0.0002	<0.0002	<0.0002			
10/16/2019				<0.0002	<0.0002	
10/17/2019						<0.0002
3/2/2020		<0.0002	<0.0002			
3/3/2020	<0.0002			<0.0002	<0.0002	<0.0002
8/11/2020	<0.0002	<0.0002	<0.0002		<0.0002	
8/12/2020				<0.0002		
8/13/2020						<0.0002
9/22/2020		<0.0002	<0.0002		<0.0002	
9/23/2020				<0.0002		<0.0002
9/24/2020	8.1E-05 (J)					
3/2/2021		<0.0002		<0.0002	<0.0002	<0.0002
3/3/2021			<0.0002			
3/4/2021	<0.0002					
9/9/2021		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/10/2021	<0.0002					
1/24/2022						<0.0002
1/25/2022		<0.0002	<0.0002	<0.0002	<0.0002	
1/26/2022	<0.0002					
9/13/2022					<0.0002	<0.0002
9/15/2022	<0.0002	<0.0002	<0.0002	<0.0002		
Mean	0.0001701	0.0001744	0.0001592	0.000185	0.0001759	0.0001918
Std. Dev.	5.368E-05	5.537E-05	6.243E-05	4.115E-05	5.397E-05	3.395E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	8.1E-05	8E-05	8E-05	9E-05	8E-05	6E-05

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		4E-05 (J)				
9/2/2016				<0.0002	6E-05 (J)	5E-05 (J)
9/7/2016	6E-05 (J)					
12/7/2016		5E-05 (J)		8E-05 (J)		
12/8/2016	<0.0002				<0.0002	<0.0002
3/29/2017		9E-05 (J)		8E-05 (J)		0.0001 (J)
3/30/2017	0.00012 (J)		7E-05 (J)		8E-05 (J)	
5/11/2017			8.3E-05 (J)			
6/15/2017			8E-05 (J)			
7/11/2017			<0.0002			
7/12/2017	5E-05 (J)	<0.0002		<0.0002	6E-05 (J)	
7/13/2017						<0.0002
10/24/2017			<0.0002			
10/25/2017	5E-05 (J)	<0.0002		<0.0002	5E-05 (J)	<0.0002
2/27/2018			<0.0002			
2/28/2018	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
7/11/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
7/12/2018						5.5E-05 (J)
11/6/2018			0.00064			
11/7/2018	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
8/27/2019	0.00016 (J)		<0.0002			
8/28/2019		<0.0002				
8/29/2019				<0.0002	<0.0002	<0.0002
10/16/2019		<0.0002				
10/17/2019			<0.0002	<0.0002	<0.0002	
10/18/2019	<0.0002					<0.0002
3/3/2020		<0.0002	<0.0002		<0.0002	<0.0002
3/4/2020	<0.0002			<0.0002		
8/11/2020		<0.0002	<0.0002			
8/13/2020				<0.0002		
8/14/2020	9.8E-05 (J)				<0.0002	<0.0002
9/22/2020		<0.0002		<0.0002		
9/23/2020			<0.0002			
9/24/2020	8.2E-05 (J)				0.00012 (J)	<0.0002
3/2/2021		<0.0002	<0.0002	9E-05 (J)		
3/3/2021	<0.0002				<0.0002	<0.0002
9/9/2021		<0.0002	<0.0002		<0.0002	
9/10/2021				<0.0002		0.00011 (J)
9/13/2021	8.6E-05 (J)					
1/20/2022			<0.0002		<0.0002	<0.0002
1/21/2022				<0.0002		
1/24/2022	<0.0002					
1/25/2022		<0.0002				
9/14/2022	<0.0002	<0.0002				
9/15/2022				<0.0002	<0.0002	
9/16/2022						<0.0002
9/20/2022			<0.0002			
Mean	0.0001474	0.0001753	0.0002043	0.0001794	0.0001629	0.0001715
Std. Dev.	6.27E-05	5.58E-05	0.000122	4.589E-05	6.08E-05	5.465E-05
Upper Lim.	0.0002	0.0002	0.00064	0.0002	0.0002	0.0002
Lower Lim.	8.2E-05	9E-05	8.3E-05	9E-05	8E-05	0.00011

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-48	DGWC-5	DGWC-8
8/30/2016						9E-05 (J)
8/31/2016					0.00015 (J)	
9/1/2016				<0.0002		
9/7/2016			<0.0002			
12/6/2016					0.00012 (J)	0.0001 (J)
12/8/2016			<0.0002	<0.0002		
3/28/2017		<0.0002			0.00017 (J)	
3/29/2017						0.00012 (J)
3/30/2017	0.0002 (J)			6E-05 (J)		
3/31/2017			4E-05 (J)			
5/12/2017	0.00015 (J)	8.2E-05 (J)				
6/15/2017	0.00019 (J)	8E-05 (J)				
7/11/2017		<0.0002			0.0002 (J)	6E-05 (J)
7/12/2017	0.00012 (J)					
7/13/2017			<0.0002	<0.0002		
10/24/2017		<0.0002				<0.0002
10/25/2017			<0.0002		9E-05 (J)	
10/26/2017	0.00012 (J)			<0.0002		
2/27/2018		<0.0002			9E-05 (J)	4.2E-05 (J)
2/28/2018			<0.0002			
3/1/2018	<0.0002					
3/2/2018				<0.0002		
7/11/2018			<0.0002			
7/12/2018	0.00016 (J)			<0.0002		
11/6/2018		0.00059			0.00055	<0.0002
11/7/2018			<0.0002	<0.0002		
11/8/2018	<0.0002					
8/27/2019		<0.0002			0.00016 (J)	
8/28/2019			<0.0002			<0.0002
8/29/2019	<0.0002			<0.0002		
10/15/2019		<0.0002				
10/16/2019					<0.0002	<0.0002
10/17/2019			<0.0002			
10/18/2019	<0.0002			<0.0002		
3/2/2020		<0.0002			<0.0002	
3/3/2020						<0.0002
3/4/2020	0.00026		<0.0002	<0.0002		
8/12/2020		<0.0002			0.00017 (J)	7.9E-05 (J)
8/13/2020	0.00014 (J)		<0.0002	<0.0002		
9/22/2020		<0.0002	<0.0002		0.0002 (J)	
9/23/2020				<0.0002		<0.0002
9/24/2020	0.0002 (J)					
3/1/2021		<0.0002				
3/2/2021					9.4E-05 (J)	<0.0002
3/3/2021	0.00033		<0.0002	<0.0002		
9/9/2021	0.00011 (J)					
9/10/2021		0.00013 (J)		<0.0002	0.0003	
9/13/2021			<0.0002			<0.0002
1/20/2022	<0.0002		<0.0002			
1/24/2022		0.00022		<0.0002	0.00028	
1/25/2022						<0.0002
9/13/2022			<0.0002	<0.0002		

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-48	DGWC-5	DGWC-8
9/14/2022					0.00022	
9/15/2022						<0.0002
9/19/2022		<0.0002				
9/20/2022	<0.0002					
Mean	0.0001871	0.0002064	0.0001906	0.0001918	0.0001996	0.0001557
Std. Dev.	5.382E-05	0.0001111	3.881E-05	3.395E-05	0.0001117	6.126E-05
Upper Lim.	0.0001899	0.00022	0.0002	0.0002	0.0002509	0.0002
Lower Lim.	0.0001266	0.00013	4E-05	6E-05	0.0001313	7.9E-05

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-100	B-101D	B-104D	B-107D	B-108D
8/30/2016	<0.0002					
12/6/2016	5E-05 (J)					
3/28/2017	<0.0002					
7/11/2017	<0.0002					
10/24/2017	<0.0002					
2/27/2018	4.2E-05 (J)					
7/11/2018	<0.0002					
11/6/2018	<0.0002					
8/27/2019	0.00021 (J)					
10/17/2019	0.00042 (J)					
3/3/2020	<0.0002					
8/11/2020	0.00026					
8/17/2020		0.00011 (J)				
9/22/2020	0.00013 (J)					
9/25/2020		<0.0002				
12/9/2020				7.9E-05 (J)	0.00016 (J)	0.00014 (J)
1/12/2021			<0.0002	<0.0002		
3/2/2021	0.00017 (J)					
3/4/2021				<0.0002	<0.0002	<0.0002
3/5/2021			0.00014 (J)			
9/10/2021	0.00014 (J)					
9/13/2021		<0.0002	<0.0002		<0.0002	
9/14/2021				<0.0002		<0.0002
1/21/2022		<0.0002				
1/24/2022				<0.0002	<0.0002	<0.0002
1/26/2022	0.00014 (J)		<0.0002			
9/8/2022		<0.0002				
9/13/2022				<0.0002		
9/14/2022					<0.0002	
9/15/2022						<0.0002
9/16/2022			<0.0002			
9/19/2022	0.0002					
Mean	0.000186	0.000182	0.000188	0.0001798	0.000192	0.000188
Std. Dev.	8.263E-05	4.025E-05	2.683E-05	4.94E-05	1.789E-05	2.683E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00013	0.00011	0.00014	7.9E-05	0.00016	0.00014

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-111D	B-56	B-82	B-88	B-93
9/23/2019			<0.0002		
10/21/2019			<0.0002		
8/17/2020		0.00016 (J)	0.00011 (J)	0.00011 (J)	
8/19/2020					0.00026
9/25/2020				<0.0002	
9/28/2020		<0.0002	<0.0002		0.00024 (J)
12/9/2020	9.4E-05 (J)				
1/12/2021	<0.0002				
3/3/2021		<0.0002			
3/5/2021	<0.0002			0.0001 (J)	
3/9/2021					0.00015 (J)
9/13/2021		<0.0002		<0.0002	
9/14/2021	<0.0002		<0.0002		
9/15/2021					9.8E-05 (J)
1/24/2022	<0.0002				
1/25/2022			<0.0002		
1/26/2022					<0.0002
1/27/2022		<0.0002		<0.0002	
9/12/2022					0.00016 (J)
9/14/2022	<0.0002				
9/16/2022		<0.0002	<0.0002	<0.0002	
Mean	0.0001823	0.0001933	0.0001871	0.0001683	0.0001847
Std. Dev.	4.327E-05	1.633E-05	3.402E-05	4.916E-05	6.049E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002543
Lower Lim.	9.4E-05	0.00016	0.00011	0.0001	9.374E-05

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-13	DGWC-2	DGWC-23	DGWC-4	B-101D	B-102D
9/6/2016	0.0371					
12/7/2016	0.0273					
3/28/2017				0.008 (J)		
3/30/2017	0.03	0.0009 (J)	0.0084 (J)			
5/11/2017		0.0009 (J)				
5/12/2017			0.0085 (J)	0.0062 (J)		
6/15/2017		<0.01	0.0104	0.0044 (J)		
7/11/2017		<0.01		0.0041 (J)		
7/12/2017	0.0323		0.0092 (J)			
10/24/2017		<0.01		0.0072 (J)		
10/26/2017			0.0077 (J)			
11/15/2017	0.0275					
2/27/2018		<0.01		0.0069 (J)		
2/28/2018	0.0093 (J)					
3/1/2018			0.0045 (J)			
7/11/2018		<0.01				
7/12/2018			0.012			
11/6/2018		<0.01		<0.01 (J)		
11/7/2018	0.018					
11/8/2018			0.012			
8/27/2019		0.002 (J)		0.0065 (J)		
8/28/2019	0.015					
8/29/2019			0.014			
10/15/2019				0.0061 (J)		
10/16/2019	0.014					
10/17/2019		0.0018 (J)				
10/18/2019			0.0091 (J)			
3/2/2020				0.0059 (J)		
3/3/2020	0.018	0.0022 (J)				
3/4/2020			0.0047 (J)			
8/11/2020		0.002 (J)				
8/12/2020	0.012			0.0057 (J)		
8/13/2020			0.013			
9/22/2020				0.0028 (J)		
9/23/2020	0.012	0.0022 (J)				
9/24/2020			0.0088 (J)			
12/17/2020						<0.01
1/11/2021						<0.01
1/12/2021					0.0022 (J)	
3/1/2021				0.0051 (J)		
3/2/2021	0.011	0.0021 (J)				
3/3/2021			0.0026 (J)			
3/4/2021						<0.01
3/5/2021					<0.01	
9/9/2021	0.011	0.0023 (J)	0.01			
9/10/2021				0.0052 (J)		<0.01
9/13/2021					<0.01	
1/20/2022		0.0022 (J)	0.0073 (J)			
1/24/2022				0.0045 (J)		
1/25/2022	0.0093 (J)					
1/26/2022					<0.01	
1/27/2022						<0.01

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-13	DGWC-2	DGWC-23	DGWC-4	B-101D	B-102D
9/15/2022	0.0094 (J)					0.0015 (J)
9/16/2022					<0.01	
9/19/2022				0.0037 (J)		
9/20/2022		0.0021 (J)	0.0095 (J)			
Mean	0.01833	0.004747	0.008924	0.005769	0.00844	0.008583
Std. Dev.	0.009341	0.004019	0.003032	0.001774	0.003488	0.00347
Upper Lim.	0.02242	0.01	0.01082	0.006923	0.01	0.01
Lower Lim.	0.01192	0.0018	0.007024	0.004615	0.0022	0.0015

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-104D	B-109D	B-111D	B-120D	B-66	B-88
1/30/2019					<0.01	
9/12/2019					0.0018 (J)	
10/21/2019					0.0015 (J)	
8/17/2020						0.0012 (J)
9/25/2020						0.0012 (J)
12/9/2020	0.0012 (J)		0.0055 (J)			
1/12/2021	<0.01		0.0054 (J)			
1/13/2021		0.0022 (J)				
3/4/2021	<0.01					
3/5/2021			0.0067 (J)			<0.01
3/8/2021		0.0014 (J)				
4/15/2021				0.00089 (J)		
9/10/2021		0.0011 (J)				
9/13/2021						<0.01
9/14/2021	<0.01		0.013	<0.01	<0.01	
1/20/2022		0.0012 (J)		<0.01		
1/24/2022	0.00083 (J)		0.0052 (J)			
1/25/2022					<0.01	
1/27/2022						<0.01
9/13/2022	<0.01					
9/14/2022			0.0069 (J)			
9/16/2022					<0.01	<0.01
9/19/2022				<0.01		
9/20/2022		0.0014 (J)				
Mean	0.007005	0.00146	0.007117	0.007722	0.007217	0.007067
Std. Dev.	0.004641	0.0004336	0.002969	0.004555	0.004313	0.004544
Upper Lim.	0.01	0.002187	0.013	0.01	0.01	0.01
Lower Lim.	0.00083	0.0007334	0.0052	0.00089	0.0015	0.0012

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17
8/31/2016	0.0366			0.0016 (J)		
9/1/2016		0.0017 (J)				
9/6/2016			0.0011 (J)		<0.005	
9/7/2016						0.007 (J)
12/6/2016	0.0026 (J)			<0.005		
12/7/2016		<0.005	0.0015 (J)		<0.005	
12/8/2016						0.0087 (J)
3/29/2017	0.0286	0.0017 (J)		<0.005		
3/30/2017			0.0015 (J)		<0.005	0.0099 (J)
7/12/2017	0.0257	0.0019 (J)	<0.005	<0.005	<0.005	0.0072 (J)
10/24/2017	0.0281					
10/25/2017		0.0024 (J)		<0.005	<0.005	0.0078 (J)
11/15/2017			0.0019 (J)			
2/27/2018	0.0667	<0.005		<0.005		
2/28/2018			<0.005		<0.005	<0.005
7/11/2018		<0.005		0.002 (J)	<0.005	0.007 (J)
11/6/2018	0.049					
11/7/2018		<0.01 (J)	<0.01 (J)	<0.01 (J)	<0.01 (J)	<0.005
8/27/2019	0.015	<0.005		<0.005		0.0073 (J)
8/28/2019			0.0039 (J)		<0.005	
9/17/2019		0.0014 (J)				
10/15/2019	0.071	0.0019 (J)				
10/16/2019			0.0031 (J)	0.0017 (J)		
10/17/2019					<0.005	
10/18/2019						0.0093 (J)
3/2/2020		<0.005				
3/3/2020	0.021		0.0062 (J)	0.0014 (J)	<0.005	
3/4/2020						0.0074 (J)
8/11/2020	0.023	0.0019 (J)		<0.005		
8/12/2020			0.0038 (J)			
8/13/2020					0.0018 (J)	
8/14/2020						0.0084 (J)
9/22/2020		<0.005		<0.005		
9/23/2020			0.0053 (J)		<0.005	
9/24/2020	0.074					0.015
3/2/2021			0.006	<0.005	<0.005	
3/3/2021		<0.005				0.0072
3/4/2021	0.05					
9/9/2021		<0.005	0.006	0.0017 (J)	<0.005	
9/10/2021	0.034					
9/13/2021						0.0071
1/24/2022					<0.005	0.0064
1/25/2022		<0.005	0.006	0.0016 (J)		
1/26/2022	0.015					
9/13/2022				<0.005	<0.005	
9/14/2022						0.0064
9/15/2022	0.02	<0.005	0.004 (J)			
Mean	0.03502	0.00405	0.004394	0.004118	0.005106	0.007771
Std. Dev.	0.02135	0.002157	0.002313	0.002217	0.00148	0.002266
Upper Lim.	0.04891	0.005	0.004355	0.01	0.01	0.008819
Lower Lim.	0.02113	0.0019	0.002125	0.0017	0.0018	0.006411

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20	DGWC-22	DGWC-4	DGWC-47
9/1/2016	0.0093 (J)					0.0217
9/2/2016			0.0671	<0.005		
12/7/2016	<0.005		0.0056 (J)			
12/8/2016				<0.005		0.017
3/28/2017					<0.005	
3/29/2017	0.0071 (J)		0.0521	<0.005		
3/30/2017		<0.005				
3/31/2017						0.0133
5/11/2017		<0.005				
5/12/2017					<0.005	
6/15/2017		<0.005			<0.005	
7/11/2017		<0.005			<0.005	
7/12/2017	0.0065 (J)		0.0483			
7/13/2017				<0.005		0.0068 (J)
10/24/2017		<0.005			<0.005	
10/25/2017	0.0087 (J)		0.0506	<0.005		
10/26/2017						0.0097 (J)
2/27/2018		<0.005			<0.005	
2/28/2018	0.0114		0.0755	<0.005		
3/1/2018						0.0124
7/11/2018	0.0036 (J)	0.0045 (J)	0.022			
7/12/2018				0.0017 (J)		0.015
11/6/2018		<0.01 (J)			<0.005	
11/7/2018	<0.01 (J)		0.044	<0.005		<0.01 (J)
8/27/2019		0.0069 (J)			<0.005	
8/28/2019	0.004 (J)					
8/29/2019			0.029	<0.005		0.004 (J)
10/15/2019					0.0014 (J)	
10/16/2019	0.006 (J)					
10/17/2019		0.0051 (J)	0.071			0.0062 (J)
10/18/2019				<0.005		
3/2/2020					<0.005	
3/3/2020	0.0066 (J)	0.0047 (J)		<0.005		
3/4/2020			0.071			0.0065 (J)
8/11/2020	0.0096 (J)	0.0053 (J)				
8/12/2020					<0.005	0.002 (J)
8/13/2020			0.091			
8/14/2020				<0.005		
9/22/2020	0.0052 (J)		0.023		<0.005	
9/23/2020		0.0046 (J)				<0.005
9/24/2020				<0.005		
3/1/2021					<0.005	
3/2/2021	0.0091	0.0037 (J)	0.078			
3/3/2021				<0.005		0.0039 (J)
9/9/2021	0.0083	0.0031 (J)				
9/10/2021			0.031	<0.005	<0.005	0.0035 (J)
1/20/2022		0.0031 (J)		<0.005		
1/21/2022			0.041			0.0016 (J)
1/24/2022					<0.005	
1/25/2022	0.0029 (J)					
9/13/2022						0.0031 (J)
9/14/2022	0.0073					

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20	DGWC-22	DGWC-4	DGWC-47
9/15/2022			0.062			
9/16/2022				<0.005		
9/19/2022					<0.005	
9/20/2022		0.0018 (J)				
Mean	0.007094	0.004871	0.05072	0.004806	0.004775	0.008335
Std. Dev.	0.002441	0.001733	0.0235	0.0008004	0.0009	0.00581
Upper Lim.	0.008624	0.0051	0.06544	0.005	0.005	0.01198
Lower Lim.	0.005564	0.0037	0.03599	0.0017	0.0014	0.004695

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-100	B-101D
8/30/2016			0.0032 (J)	0.0833		
8/31/2016		0.0182				
9/1/2016	0.0084 (J)					
12/6/2016		0.012	<0.005	0.0065 (J)		
12/8/2016	0.0084 (J)					
3/28/2017		0.168		0.0954		
3/29/2017			0.0048 (J)			
3/30/2017	0.0079 (J)					
7/11/2017		0.0607	0.0031 (J)	0.0561		
7/13/2017	0.0062 (J)					
10/24/2017			0.0069 (J)	0.0653		
10/25/2017		0.034				
10/26/2017	0.0058 (J)					
2/27/2018		0.0348	<0.005	0.13		
3/2/2018	<0.005					
7/11/2018				0.045		
7/12/2018	0.013					
11/6/2018		<0.01 (J)	<0.01 (J)	0.12		
11/7/2018	<0.01 (J)					
8/27/2019		0.0031 (J)		0.067		
8/28/2019			<0.005			
8/29/2019	0.0023 (J)					
10/16/2019		0.015	0.0016 (J)			
10/17/2019				0.19		
10/18/2019	0.005 (J)					
3/2/2020		0.032				
3/3/2020			0.0018 (J)	0.046		
3/4/2020	0.0061 (J)					
8/11/2020				0.11		
8/12/2020		0.011	<0.005			
8/13/2020	0.0029 (J)					
8/17/2020					<0.005	
9/22/2020		0.04		0.23		
9/23/2020	0.0016 (J)		0.0028 (J)			
9/25/2020					<0.005	
1/12/2021						<0.005
3/2/2021		0.0081	<0.005	0.07		
3/3/2021	0.0025 (J)					
3/5/2021						0.0031 (J)
3/8/2021					0.0019 (J)	
9/10/2021	0.0022 (J)	0.0099		0.057		
9/13/2021			<0.005		<0.005	<0.005
1/21/2022					<0.005	
1/24/2022	<0.005	0.0048 (J)				
1/25/2022			<0.005			
1/26/2022				0.025		<0.005
9/8/2022					<0.005	
9/13/2022	0.0019 (J)					
9/14/2022		0.019				
9/15/2022			<0.005			
9/16/2022						<0.005
9/19/2022				0.048		

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-100	B-101D
Mean	0.005541	0.03004	0.004637	0.08498	0.004483	0.00462
Std. Dev.	0.003219	0.03995	0.002001	0.05747	0.001266	0.0008497
Upper Lim.	0.006509	0.03982	0.0069	0.121	0.005	0.005
Lower Lim.	0.002678	0.009533	0.0028	0.04897	0.0019	0.0031

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-104D	B-108D	B-111D	B-115D	B-120D	B-56
8/17/2020						0.011
9/28/2020						0.029
12/9/2020	<0.005	<0.005	<0.005			
1/12/2021	0.0016 (J)		<0.005			
3/3/2021						0.013
3/4/2021	0.0031 (J)	0.0016 (J)				
3/5/2021			0.0022 (J)			
4/14/2021				0.006		
4/15/2021					0.0016 (J)	
9/13/2021						0.011
9/14/2021	<0.005	<0.005	<0.005	0.0041 (J)	0.0022 (J)	
1/20/2022				0.0022 (J)	0.0021 (J)	
1/24/2022	<0.005	<0.005	<0.005			
1/27/2022						0.0066
9/13/2022	<0.005					
9/14/2022			<0.005	0.0045 (J)		
9/15/2022		<0.005				
9/16/2022						0.01
9/19/2022					0.0038 (J)	
Mean	0.004117	0.00432	0.004533	0.0042	0.002425	0.01343
Std. Dev.	0.001448	0.001521	0.001143	0.001564	0.0009535	0.00791
Upper Lim.	0.005	0.005	0.005	0.007751	0.00459	0.02364
Lower Lim.	0.0016	0.0016	0.0022	0.0006488	0.0002602	0.005489

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-77	B-82	B-83	B-88	B-93
9/18/2019	<0.005				
9/23/2019		<0.005			
10/21/2019		0.0016 (J)	0.0082 (J)		
10/24/2019	<0.005				
8/13/2020	<0.005				
8/14/2020			0.015		
8/17/2020		<0.005		0.0017 (J)	
8/19/2020					0.018
9/24/2020	<0.005				
9/25/2020			0.019	0.0033 (J)	
9/28/2020		0.0021 (J)			0.036
3/4/2021	0.0017 (J)		0.024		
3/5/2021				0.0033 (J)	
3/9/2021					0.0099 (J)
9/13/2021				0.0021 (J)	
9/14/2021	<0.005	<0.005			
9/15/2021					0.0076
9/16/2021			0.025		
1/20/2022	<0.005				
1/21/2022			0.027		
1/25/2022		0.002 (J)			
1/26/2022					0.0063
1/27/2022				<0.005	
9/12/2022					0.013
9/13/2022	<0.005		0.024		
9/16/2022		<0.005		0.002 (J)	
Mean	0.004587	0.003671	0.02031	0.0029	0.01513
Std. Dev.	0.001167	0.001664	0.006715	0.001235	0.01105
Upper Lim.	0.005	0.005	0.02829	0.002986	0.02992
Lower Lim.	0.0017	0.0016	0.01234	0.001427	0.003804

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-12	DGWC-17	DGWC-19	DGWC-20	DGWC-22
8/31/2016	0.0004 (J)					
9/1/2016		<0.005		0.0005 (J)		
9/2/2016					<0.005	<0.005
9/7/2016			<0.005			
12/6/2016	0.0004 (J)					
12/7/2016		<0.005		0.0005 (J)	0.0006 (J)	
12/8/2016			<0.005			<0.005
3/29/2017	0.0006 (J)	8E-05 (J)		0.0004 (J)	0.0006 (J)	6E-05 (J)
3/30/2017			0.0002 (J)			
7/12/2017	0.0005 (J)	9E-05 (J)	0.0002 (J)	0.0005 (J)	0.0006 (J)	
7/13/2017						7E-05 (J)
10/24/2017	0.0004 (J)					
10/25/2017		9E-05 (J)	0.0002 (J)	0.0004 (J)	0.0005 (J)	7E-05 (J)
2/27/2018	<0.005	<0.005				
2/28/2018			0.00015 (J)	0.00049 (J)	<0.005	<0.005
7/11/2018		<0.005	0.00017 (J)	0.0005 (J)	<0.005	
7/12/2018						<0.005
11/6/2018	<0.001 (J)					
11/7/2018		<0.005	<0.005	<0.001 (J)	<0.001 (J)	<0.005
8/27/2019	0.00036 (J)	8.9E-05 (J)	0.00018 (J)			
8/28/2019				0.00053 (J)		
8/29/2019					0.00084 (J)	6.4E-05 (J)
9/17/2019		9.7E-05 (J)				
10/15/2019	0.00039 (J)	9.1E-05 (J)				
10/16/2019				0.00053 (J)		
10/17/2019					0.00062 (J)	
10/18/2019			0.00014 (J)			<0.005
3/2/2020		0.00013 (J)				
3/3/2020	0.00042 (J)			0.0006 (J)		7E-05 (J)
3/4/2020			0.00019 (J)		0.0023 (J)	
8/11/2020	0.00037 (J)	<0.005		0.00059 (J)		
8/13/2020					0.0016 (J)	
8/14/2020			0.00019 (J)			<0.005
9/22/2020		<0.005		0.0005 (J)	0.00055 (J)	
9/24/2020	0.00034 (J)		0.00018 (J)			<0.005
3/2/2021				0.00056 (J)	0.0014 (J)	
3/3/2021		<0.005	0.00017 (J)			<0.005
3/4/2021	0.00042 (J)					
9/9/2021		<0.005		0.00056 (J)		
9/10/2021	0.00027 (J)				0.00052 (J)	<0.005
9/13/2021			<0.005			
1/20/2022						<0.005
1/21/2022					<0.005	
1/24/2022			<0.005			
1/25/2022		<0.005		0.00057 (J)		
1/26/2022	0.00033 (J)					
9/14/2022			<0.005	0.00056 (J)		
9/15/2022	<0.005	<0.005			0.001 (J)	
9/16/2022						<0.005
Mean	0.001012	0.003093	0.001881	0.0005465	0.00189	0.003549
Std. Dev.	0.001565	0.00246	0.002375	0.0001297	0.001838	0.002317
Upper Lim.	0.001	0.005	0.005	0.00057	0.005	0.005

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-12	DGWC-17	DGWC-19	DGWC-20	DGWC-22
Lower Lim.	0.00034	9E-05	0.00017	0.00049	0.00055	7E-05

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
8/30/2016						<0.005
8/31/2016					<0.005	
9/1/2016			0.0002 (J)	<0.005		
9/7/2016		<0.005				
12/6/2016					<0.005	<0.005
12/8/2016		<0.005	<0.005	<0.005		
3/28/2017	<0.005				0.0002 (J)	
3/29/2017						0.0002 (J)
3/30/2017				9E-05 (J)		
3/31/2017		9E-05 (J)	0.0002 (J)			
5/12/2017	<0.005					
6/15/2017	<0.005					
7/11/2017	<0.005				<0.005	0.0001 (J)
7/13/2017		9E-05 (J)	0.0002 (J)	8E-05 (J)		
10/24/2017	<0.005					0.0003 (J)
10/25/2017		9E-05 (J)			<0.005	
10/26/2017			0.0003 (J)	9E-05 (J)		
2/27/2018	<0.005				<0.005	0.00033 (J)
2/28/2018		<0.005				
3/1/2018			0.00032 (J)			
3/2/2018				<0.005		
7/11/2018		<0.005				
7/12/2018			0.00031 (J)	<0.005		
11/6/2018	<0.005				<0.005	<0.001 (J)
11/7/2018		<0.005	<0.001 (J)	<0.005		
8/27/2019	<0.005				<0.005	
8/28/2019		6.9E-05 (J)				0.00022 (J)
8/29/2019			0.00025 (J)	7.8E-05 (J)		
10/15/2019	7.3E-05 (J)					
10/16/2019					7.8E-05 (J)	0.00025 (J)
10/17/2019		<0.005	0.00025 (J)			
10/18/2019				<0.005		
3/2/2020	<0.005				6.2E-05 (J)	
3/3/2020						0.00023 (J)
3/4/2020		<0.005	0.00021 (J)	6.8E-05 (J)		
8/12/2020	<0.005		0.00018 (J)		<0.005	0.00023 (J)
8/13/2020		<0.005		<0.005		
9/22/2020	<0.005	<0.005			<0.005	
9/23/2020			0.00026 (J)	<0.005		0.0002 (J)
3/1/2021	<0.005					
3/2/2021					<0.005	0.00019 (J)
3/3/2021		<0.005	0.00023 (J)	<0.005		
9/10/2021	<0.005		0.00036 (J)	<0.005	<0.005	
9/13/2021		<0.005				0.00019 (J)
1/20/2022		<0.005				
1/21/2022			0.00028 (J)			
1/24/2022	<0.005			<0.005	<0.005	
1/25/2022						0.00019 (J)
9/13/2022		<0.005	0.00021 (J)	<0.005		
9/14/2022					<0.005	
9/15/2022						<0.005
9/19/2022	<0.005					

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8
Mean	0.004692	0.003843	0.0005741	0.003553	0.004084	0.001164
Std. Dev.	0.001232	0.002149	0.001156	0.00231	0.00197	0.001913
Upper Lim.	0.005	0.005	0.00032	0.005	0.005	0.001
Lower Lim.	7.3E-05	9E-05	0.0002	8E-05	0.0002	0.00019

Confidence Interval

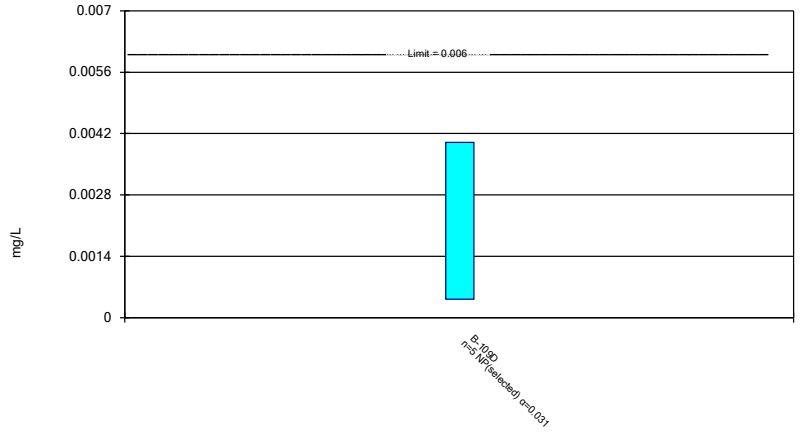
Constituent: Thallium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-56	B-82	B-83	B-88
8/30/2016	<0.005				
12/6/2016	0.0006 (J)				
3/28/2017	0.0007 (J)				
7/11/2017	0.0007 (J)				
10/24/2017	0.0006 (J)				
2/27/2018	0.00038 (J)				
7/11/2018	<0.005				
11/6/2018	<0.005				
8/27/2019	0.00053 (J)				
9/23/2019			9.9E-05 (J)		
10/17/2019	0.00076 (J)				
10/21/2019			0.00011 (J)	7.2E-05 (J)	
3/3/2020	0.00044 (J)				
8/11/2020	<0.005				
8/14/2020				<0.005	
8/17/2020		0.00016 (J)	<0.005		<0.005
9/22/2020	0.00043 (J)				
9/25/2020				<0.005	<0.005
9/28/2020		0.00023 (J)	<0.005		
3/2/2021	<0.005				
3/3/2021		0.00026 (J)			
3/4/2021				<0.005	
3/5/2021					0.0002 (J)
9/10/2021	0.0004 (J)				
9/13/2021		0.00024 (J)			<0.005
9/14/2021			<0.005		
9/16/2021				<0.005	
1/21/2022				<0.005	
1/25/2022			<0.005		
1/26/2022	<0.005				
1/27/2022		0.00032 (J)			<0.005
9/13/2022				<0.005	
9/16/2022		0.00024 (J)	<0.005		<0.005
9/19/2022	<0.005				
Mean	0.002385	0.0002417	0.003601	0.004296	0.0042
Std. Dev.	0.002258	5.154E-05	0.002389	0.001863	0.00196
Upper Lim.	0.005	0.0003125	0.005	0.005	0.005
Lower Lim.	0.00044	0.0001709	9.9E-05	7.2E-05	0.0002

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

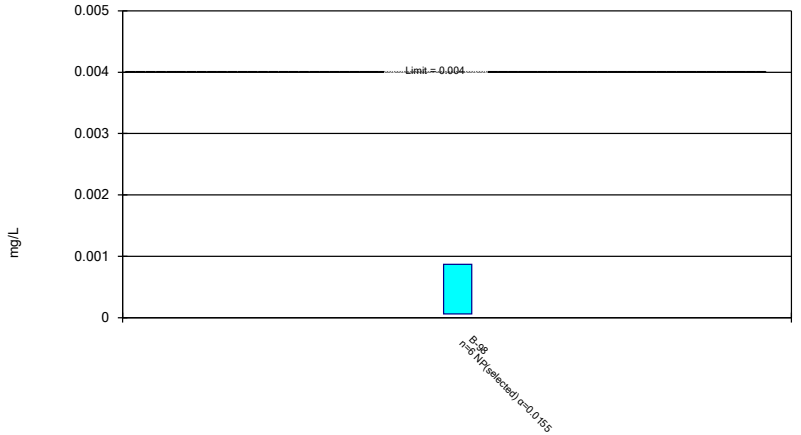
Constituent: Antimony Analysis Run 11/22/2022 9:57 AM View: AP 234 Confidence Intervals Nonparametr

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

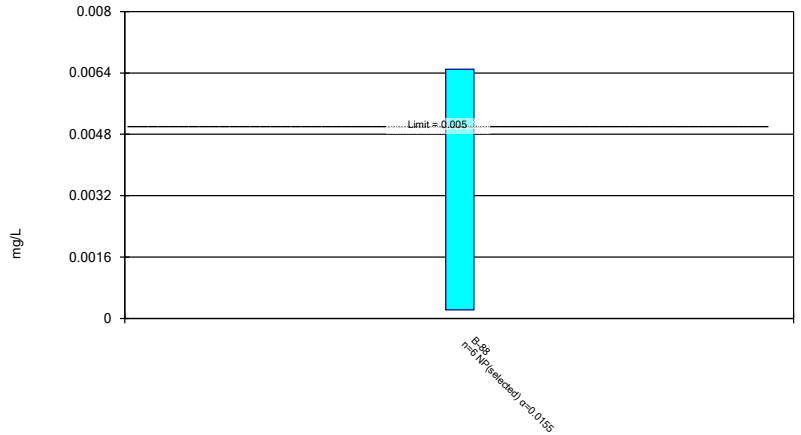
Constituent: Beryllium Analysis Run 11/22/2022 9:57 AM View: AP 234 Confidence Intervals Nonparametr

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

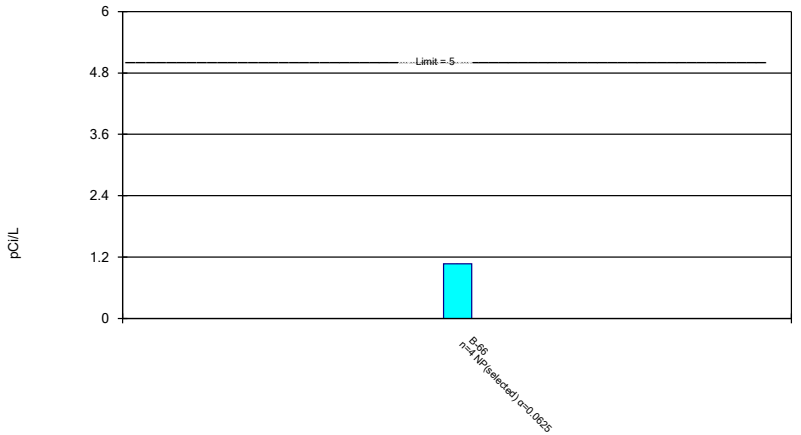
Constituent: Cadmium Analysis Run 11/22/2022 9:57 AM View: AP 234 Confidence Intervals Nonparamet

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

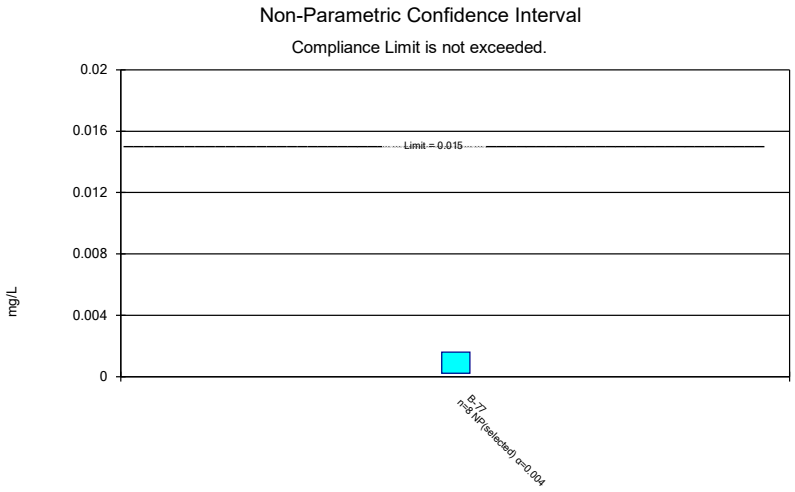
Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 9:57 AM View: AP 234 Confidence Int

Plant McDonough Client: Southern Company Data: McDonough AP



Normality testing disabled.

Constituent: Lead Analysis Run 11/22/2022 9:58 AM View: AP 234 Confidence Intervals Nonparametric

Plant McDonough Client: Southern Company Data: McDonough AP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals Nonparametric

Plant McDonough Client: Southern Company Data: McDonough AP

	B-109D
1/13/2021	0.00042 (J)
3/8/2021	0.00084 (J)
9/10/2021	0.004
1/20/2022	<0.003
9/20/2022	<0.003
Mean	0.002252
Std. Dev.	0.001543
Upper Lim.	0.004
Lower Lim.	0.00042

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals Nonparametric

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98
2/17/2020	<0.0005
2/27/2020	<0.0005
3/15/2021	<0.0005
9/15/2021	0.00087
1/26/2022	6.8E-05 (J)
9/13/2022	6.2E-05 (J)
Mean	0.0004167
Std. Dev.	0.0003078
Upper Lim.	0.00087
Lower Lim.	6.2E-05

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals Nonparametric

Plant McDonough Client: Southern Company Data: McDonough AP

	B-88
8/17/2020	0.0018 (J)
9/25/2020	0.00022 (J)
3/5/2021	0.0065
9/13/2021	0.0013
1/27/2022	0.0036
9/16/2022	0.0019
Mean	0.002553
Std. Dev.	0.002222
Upper Lim.	0.0065
Lower Lim.	0.00022

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals Nonparametric

Plant McDonough Client: Southern Company Data: McDonough AP

	B-66
1/30/2019	0.975 (U)
10/21/2019	1.07 (U)
9/14/2021	0.421 (U)
1/25/2022	0 (U)
Mean	0.6165
Std. Dev.	0.5008
Upper Lim.	1.07
Lower Lim.	0

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/22/2022 10:02 AM View: AP 234 Confidence Intervals Nonparametric

Plant McDonough Client: Southern Company Data: McDonough AP

	B-77
9/18/2019	0.00032 (J)
10/24/2019	<0.001
8/13/2020	0.0016 (J)
9/24/2020	0.00021 (J)
3/4/2021	0.00029 (J)
9/14/2021	<0.001
1/20/2022	<0.001
9/13/2022	<0.001
Mean	0.0008025
Std. Dev.	0.0004838
Upper Lim.	0.0016
Lower Lim.	0.00021

FIGURE I.

Appendix IV Trend Tests - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:13 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	**DGWA-70A (bg)**	**-0.0005528**	**-75**	**-63**	**Yes**	**17**	**47.06**	**n/a**	**n/a**	**0.01**	**NP**
Beryllium (mg/L)	**DGWC-48**	**-0.0003618**	**-75**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**DGWA-53 (bg)**	**-0.004341**	**-86**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**DGWC-10**	**-0.02391**	**-81**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**DGWC-47**	**-0.04254**	**-94**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**DGWC-48**	**-0.04236**	**-118**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**DGWC-8**	**-0.01359**	**-84**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**DGWC-9**	**0.02203**	**94**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Combined Radium 226 + 228 (pCi/L)	**DGWA-53 (bg)**	**-0.5606**	**-74**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Lithium (mg/L)	**DGWC-47**	**-0.005519**	**-84**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Lithium (mg/L)	**DGWC-48**	**-0.006296**	**-90**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix IV Trend Tests - All Results

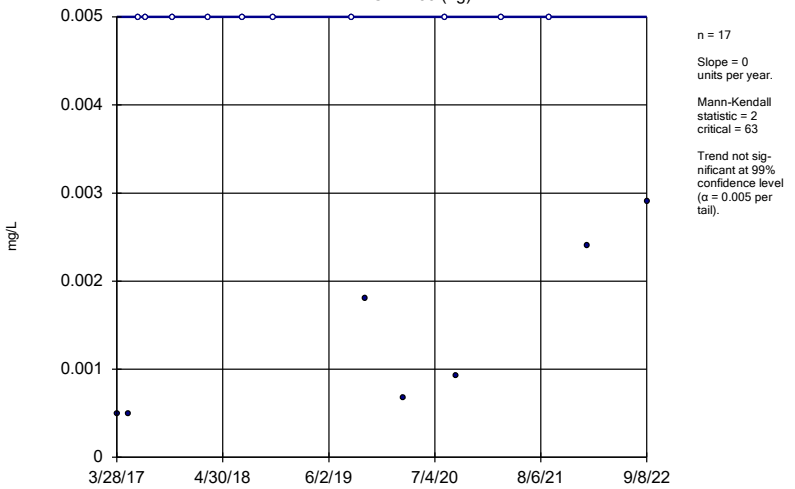
Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:13 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	DGWA-53 (bg)	0	2	63	No	17	58.82	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-70A (bg)	0	-31	-63	No	17	82.35	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-71 (bg)	0	24	58	No	16	81.25	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWC-9	-0.0002264	-4	-63	No	17	5.882	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-53 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	**DGWA-70A (bg)**	**-0.0005528**	**-75**	**-63**	**Yes**	**17**	**47.06**	**n/a**	**n/a**	**0.01**	**NP**
Beryllium (mg/L)	DGWA-71 (bg)	-0.00001726	-46	-63	No	17	29.41	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-10	0.0005202	26	58	No	16	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-47	-0.0008716	-63	-63	No	17	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	**DGWC-48**	**-0.0003618**	**-75**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Beryllium (mg/L)	DGWC-5	0.0004942	44	58	No	16	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-9	0.00003719	9	63	No	17	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-92	-0.00171	-3	-12	No	5	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-93	0.001505	13	18	No	7	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	**DGWA-53 (bg)**	**-0.004341**	**-86**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	DGWA-70A (bg)	0	11	63	No	17	52.94	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-71 (bg)	0	23	58	No	16	68.75	n/a	n/a	0.01	NP
Cobalt (mg/L)	**DGWC-10**	**-0.02391**	**-81**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	DGWC-19	-0.0001283	-13	-63	No	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-20	0.05164	45	63	No	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	**DGWC-47**	**-0.04254**	**-94**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**DGWC-48**	**-0.04236**	**-118**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**DGWC-8**	**-0.01359**	**-84**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**DGWC-9**	**0.02203**	**94**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	B-104D	-0.02997	-5	-14	No	6	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-56	0.004575	10	14	No	6	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-63	-0.001791	-4	-18	No	7	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-93	-0.002781	-12	-18	No	7	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	**DGWA-53 (bg)**	**-0.5606**	**-74**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Combined Radium 226 + 228 (pCi/L)	DGWA-70A (bg)	0.02757	9	68	No	18	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-71 (bg)	0.0095	5	63	No	17	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	B-104D	-3.972	-6	-12	No	5	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-53 (bg)	-0.0001177	-22	-63	No	17	5.882	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-70A (bg)	0	21	63	No	17	82.35	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-71 (bg)	-0.0001133	-55	-58	No	16	18.75	n/a	n/a	0.01	NP
Lithium (mg/L)	**DGWC-47**	**-0.005519**	**-84**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Lithium (mg/L)	**DGWC-48**	**-0.006296**	**-90**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-53 (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 2
critical = 63

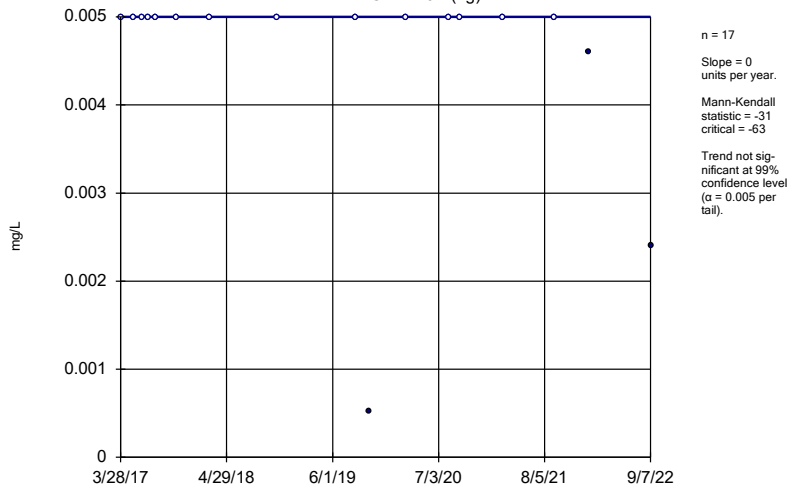
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -31
critical = -63

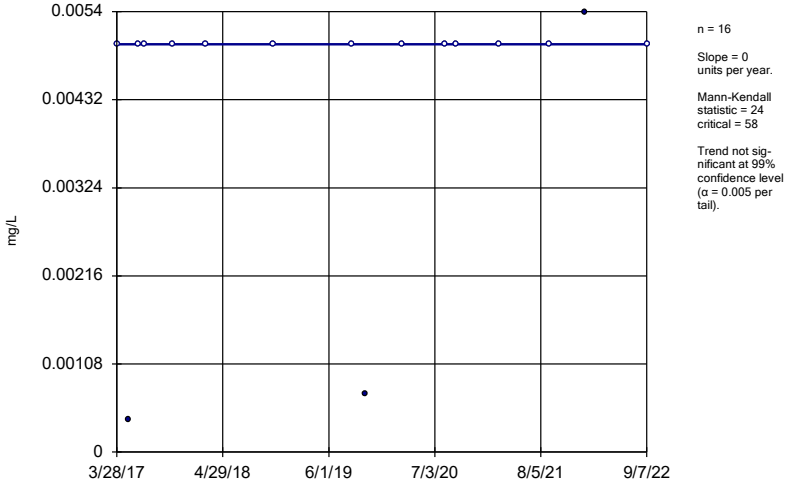
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = 24
critical = 58

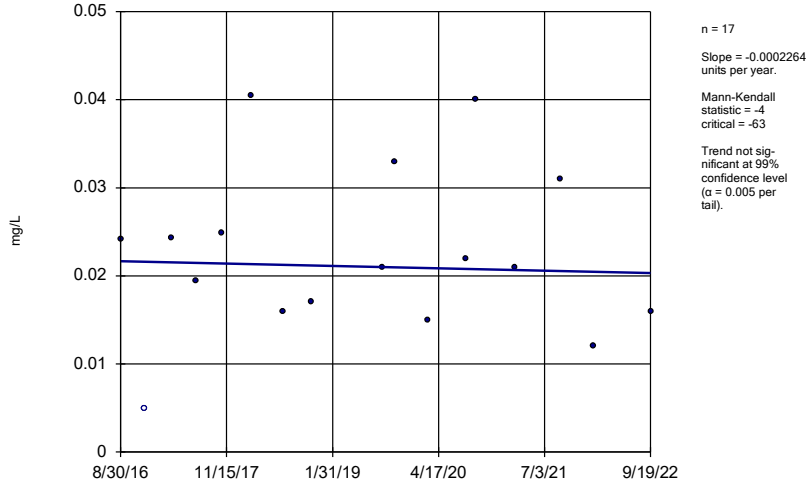
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWC-9



n = 17

Slope = -0.0002264 units per year.

Mann-Kendall statistic = -4
critical = -63

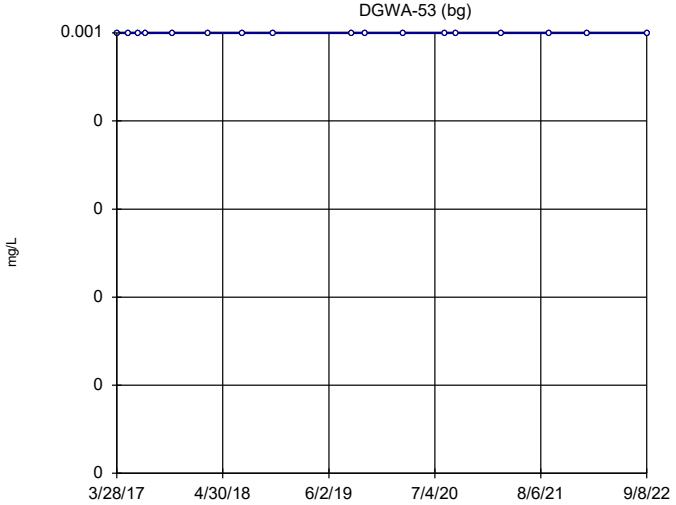
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-53 (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 63

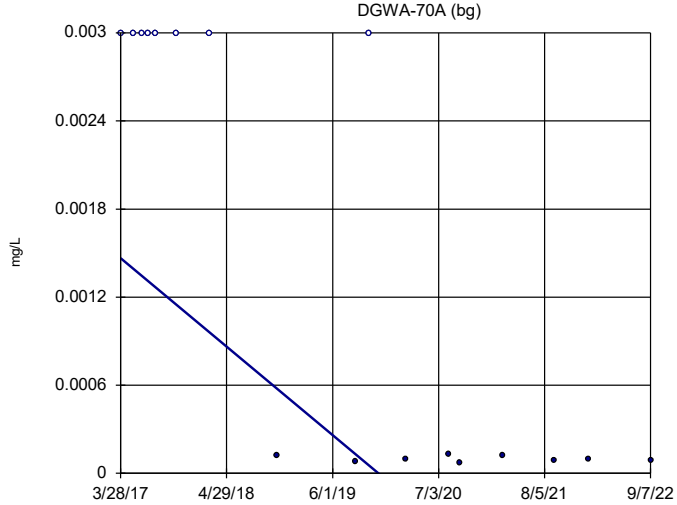
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 17

Slope = -0.0005528 units per year.

Mann-Kendall statistic = -75
critical = -63

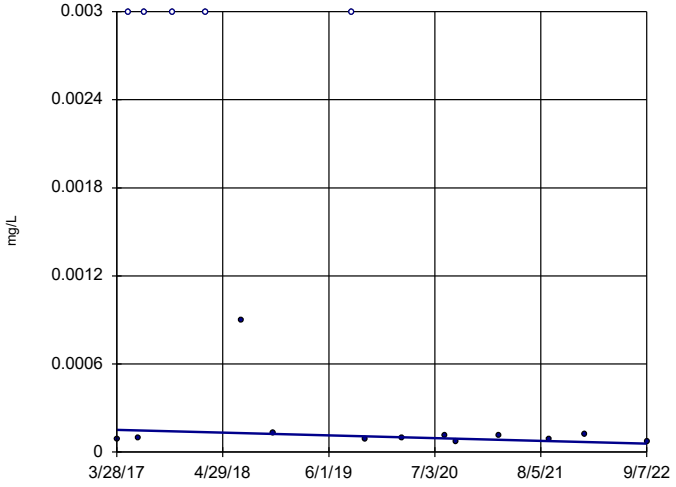
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 17

Slope = -0.00001726 units per year.

Mann-Kendall statistic = -46
critical = -63

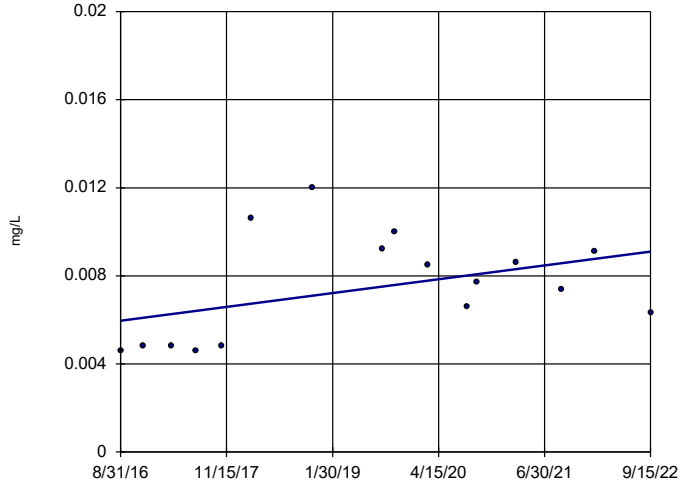
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWC-10



n = 16

Slope = 0.0005202 units per year.

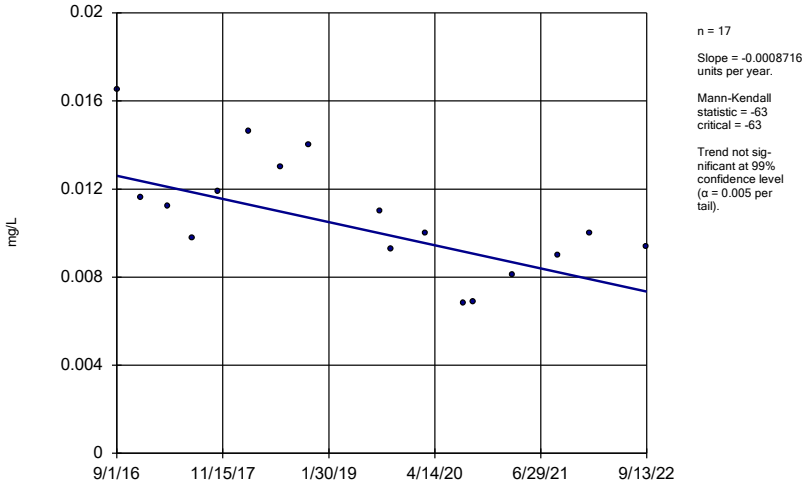
Mann-Kendall statistic = 26
critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-47



n = 17

Slope = -0.0008716 units per year.

Mann-Kendall statistic = -63
critical = -63

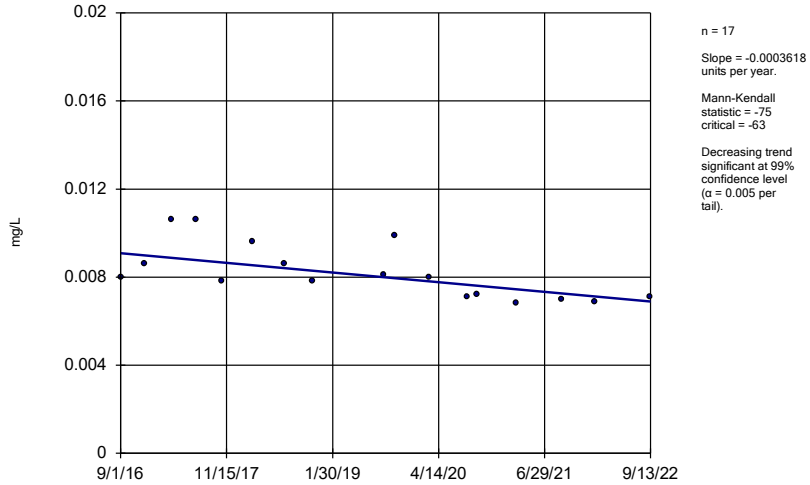
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWC-48



n = 17

Slope = -0.0003618 units per year.

Mann-Kendall statistic = -75
critical = -63

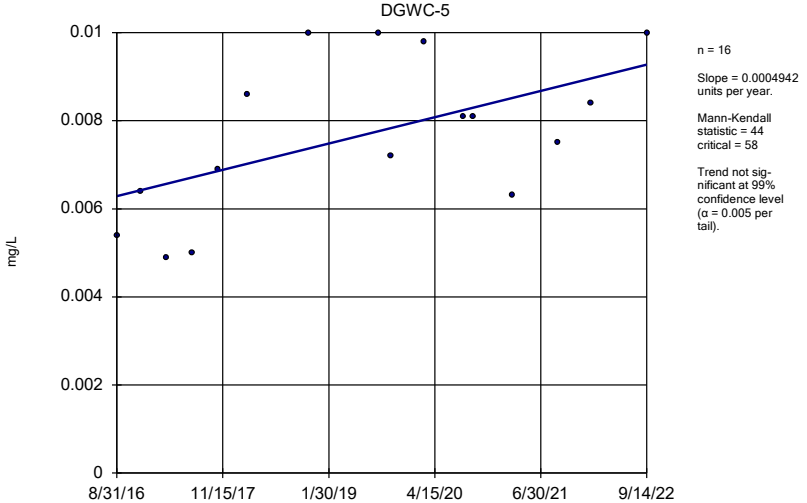
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWC-5



n = 16

Slope = 0.0004942 units per year.

Mann-Kendall statistic = 44
critical = 58

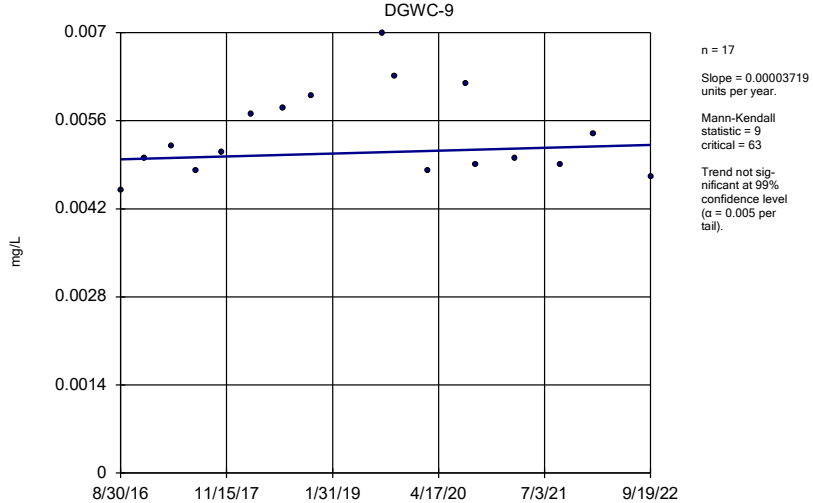
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWC-9



n = 17

Slope = 0.00003719 units per year.

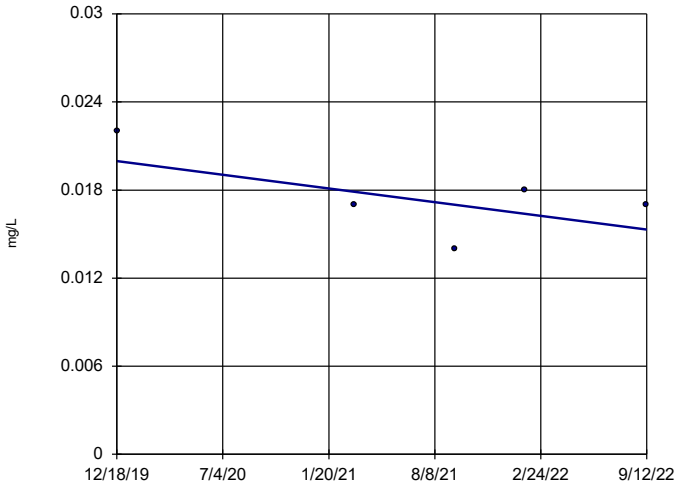
Mann-Kendall statistic = 9
critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

B-92



n = 5

Slope = -0.00171 units per year.

Mann-Kendall statistic = -3
critical = -12

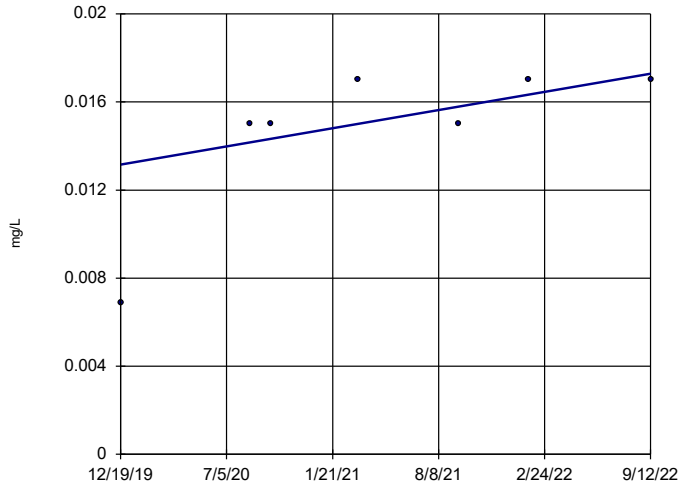
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

B-93



n = 7

Slope = 0.001505 units per year.

Mann-Kendall statistic = 13
critical = 18

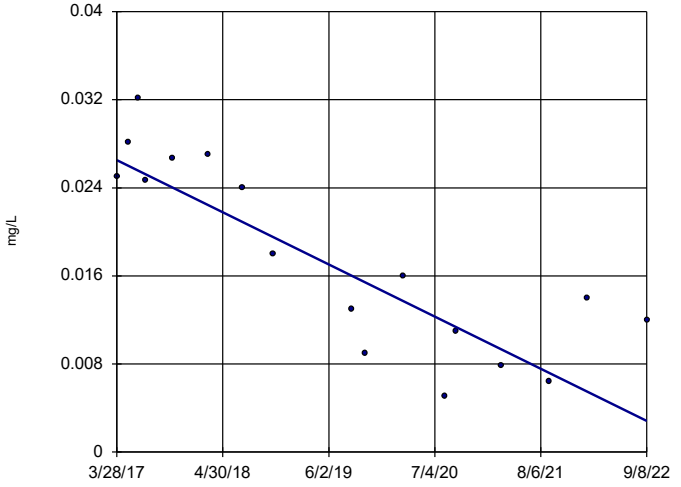
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWA-53 (bg)



n = 17

Slope = -0.004341 units per year.

Mann-Kendall statistic = -86
critical = -63

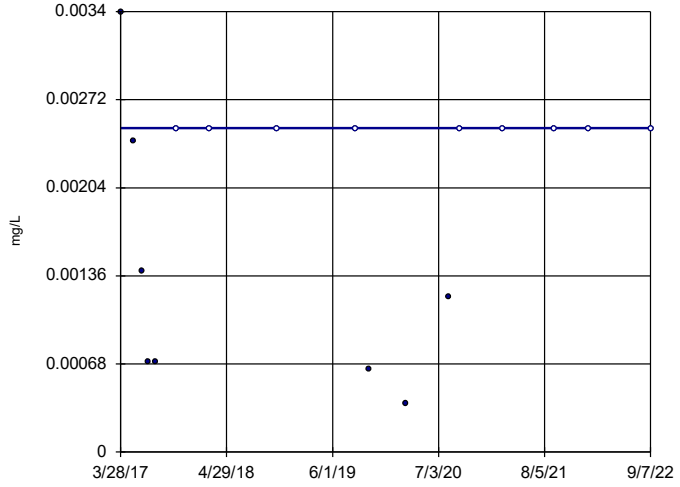
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 11
critical = 63

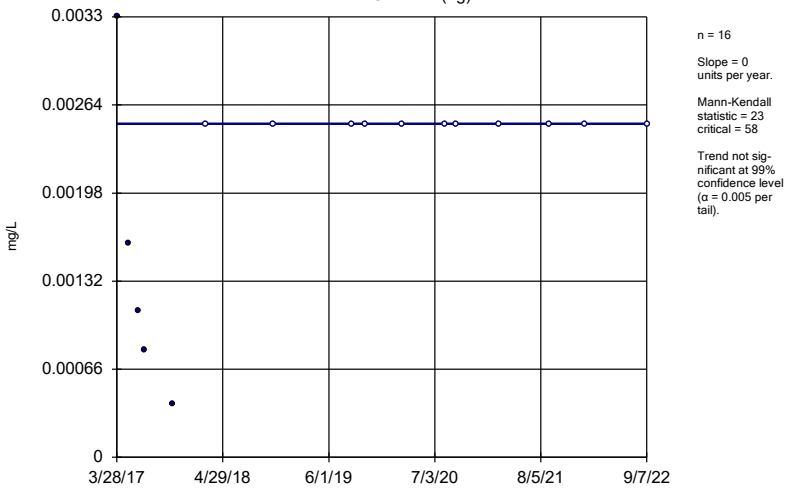
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = 23 critical = 58

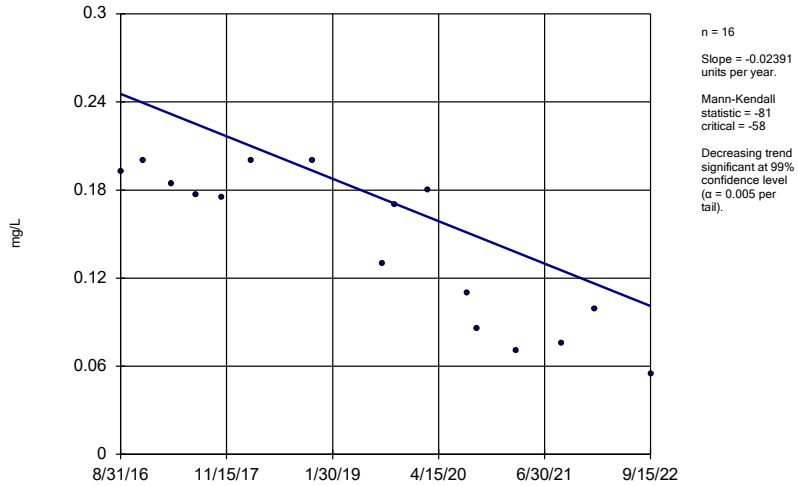
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-10



n = 16

Slope = -0.02391 units per year.

Mann-Kendall statistic = -81 critical = -58

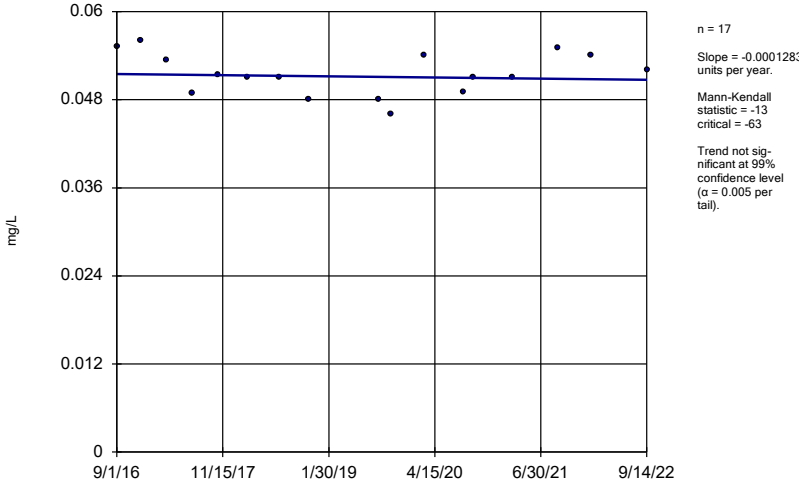
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-19



n = 17

Slope = -0.0001283 units per year.

Mann-Kendall statistic = -13 critical = -63

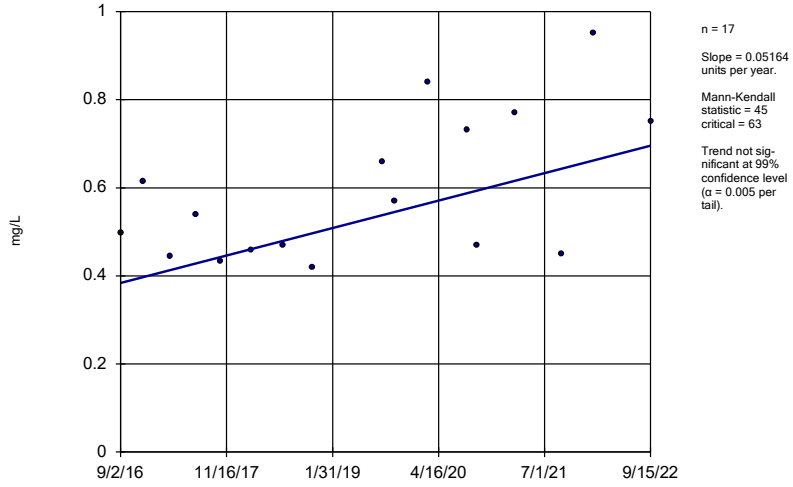
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-20



n = 17

Slope = 0.05164 units per year.

Mann-Kendall statistic = 45 critical = 63

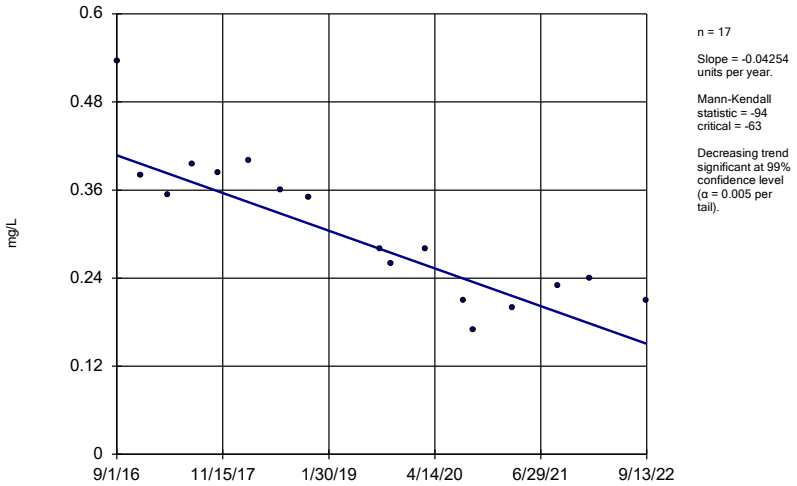
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-47



n = 17

Slope = -0.04254 units per year.

Mann-Kendall statistic = -94
critical = -63

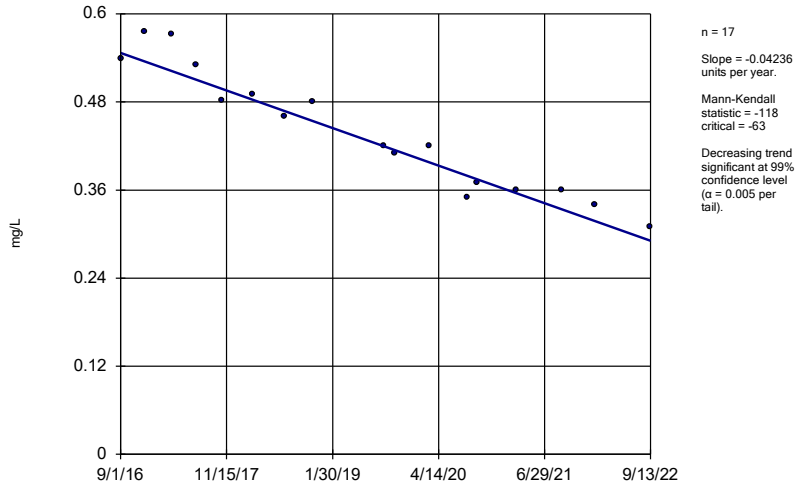
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWC-48



n = 17

Slope = -0.04236 units per year.

Mann-Kendall statistic = -118
critical = -63

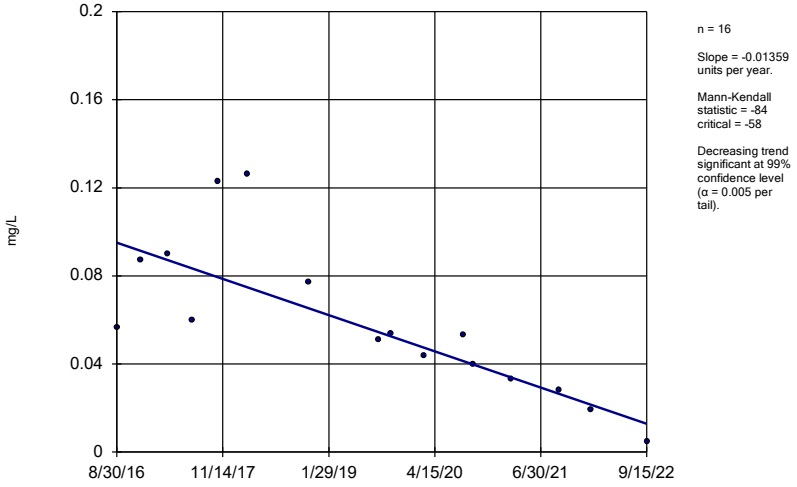
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWC-8



n = 16

Slope = -0.01359 units per year.

Mann-Kendall statistic = -84
critical = -58

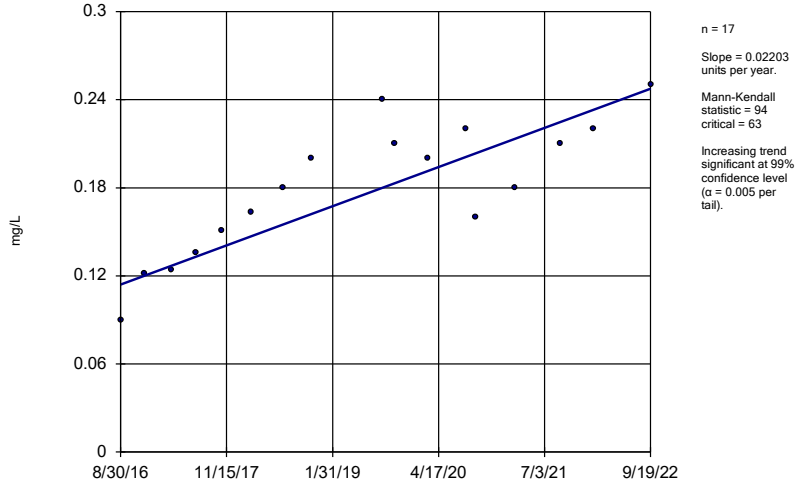
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWC-9



n = 17

Slope = 0.02203 units per year.

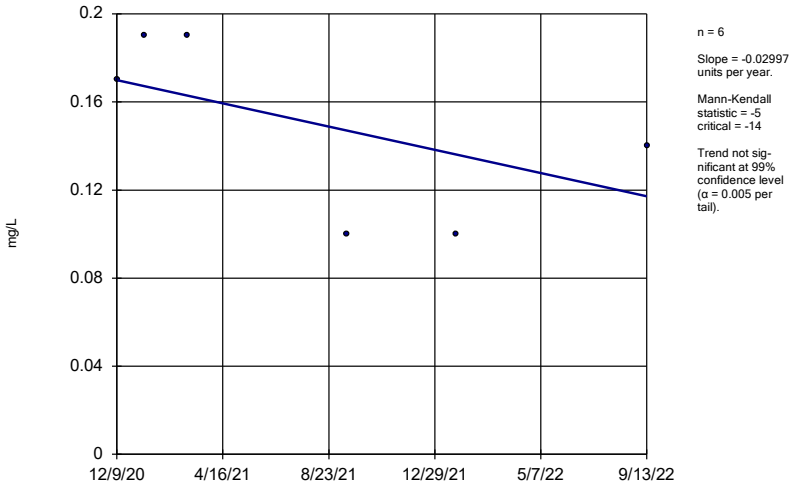
Mann-Kendall statistic = 94
critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

B-104D



n = 6

Slope = -0.02997 units per year.

Mann-Kendall statistic = -5
critical = -14

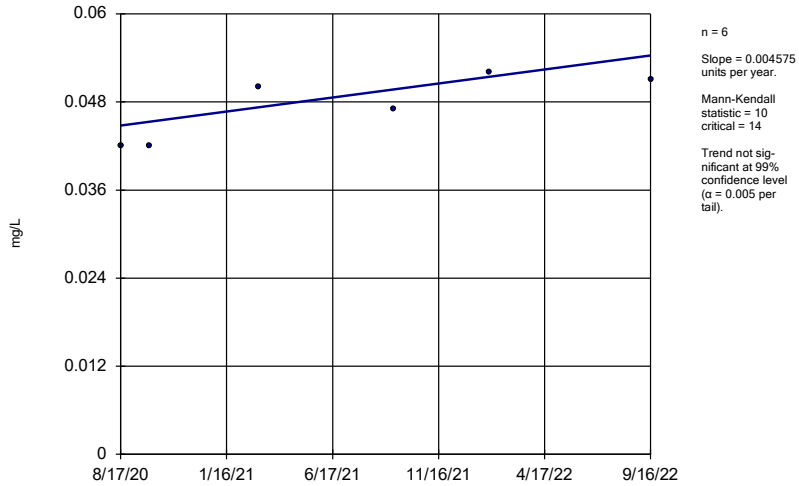
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

B-56



n = 6

Slope = 0.004575 units per year.

Mann-Kendall statistic = 10
critical = 14

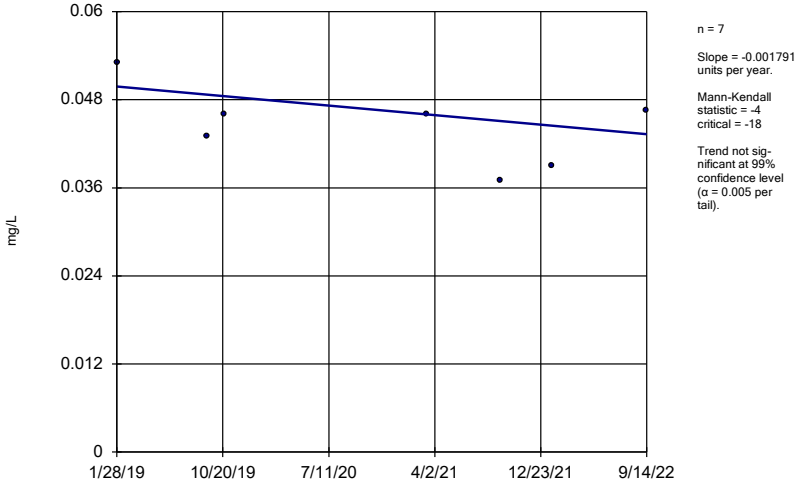
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

B-63



n = 7

Slope = -0.001791 units per year.

Mann-Kendall statistic = -4
critical = -18

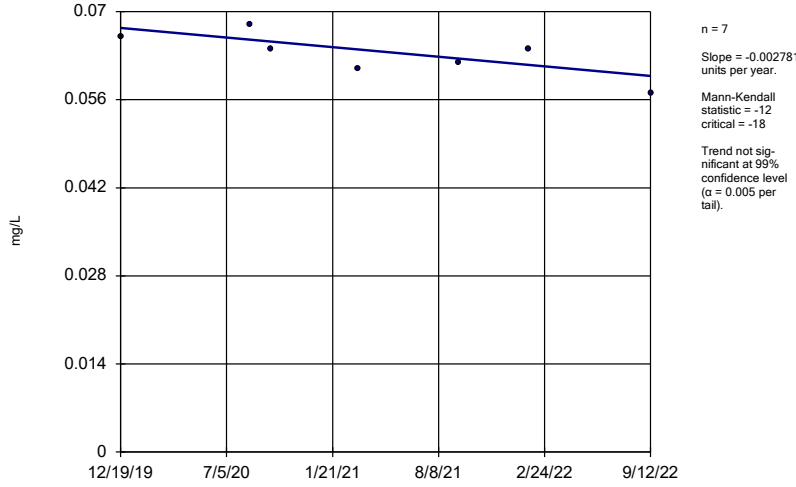
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

B-93



n = 7

Slope = -0.002781 units per year.

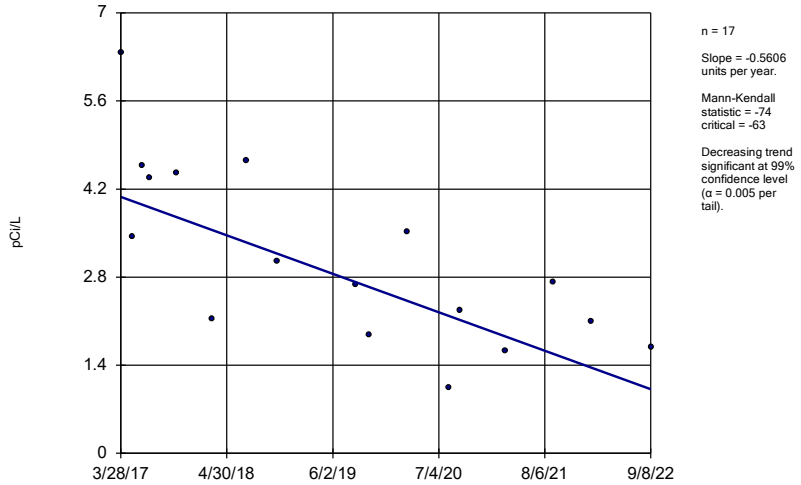
Mann-Kendall statistic = -12
critical = -18

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWA-53 (bg)



n = 17

Slope = -0.5606 units per year.

Mann-Kendall statistic = -74 critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

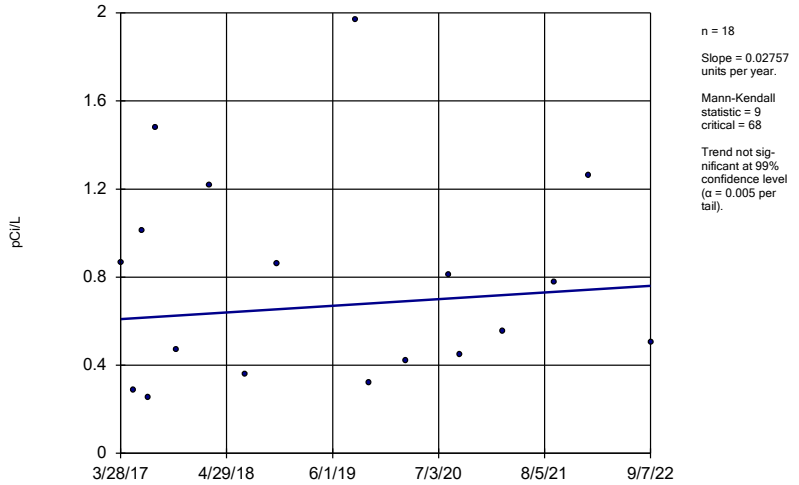
Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWA-70A (bg)



n = 18

Slope = 0.02757 units per year.

Mann-Kendall statistic = 9 critical = 68

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

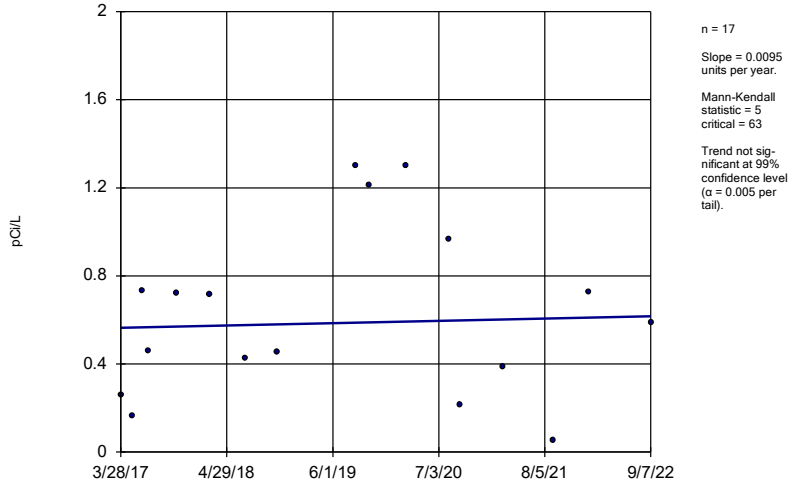
Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWA-71 (bg)



n = 17

Slope = 0.0095 units per year.

Mann-Kendall statistic = 5 critical = 63

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

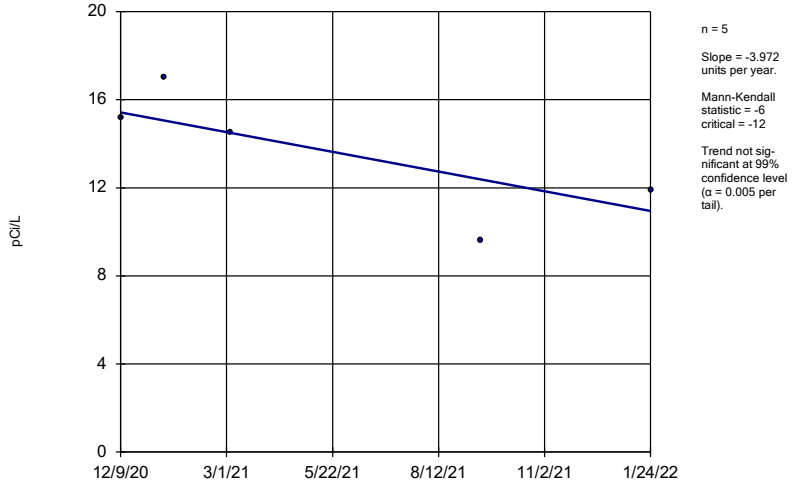
Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

B-104D



n = 5

Slope = -3.972 units per year.

Mann-Kendall statistic = -6 critical = -12

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

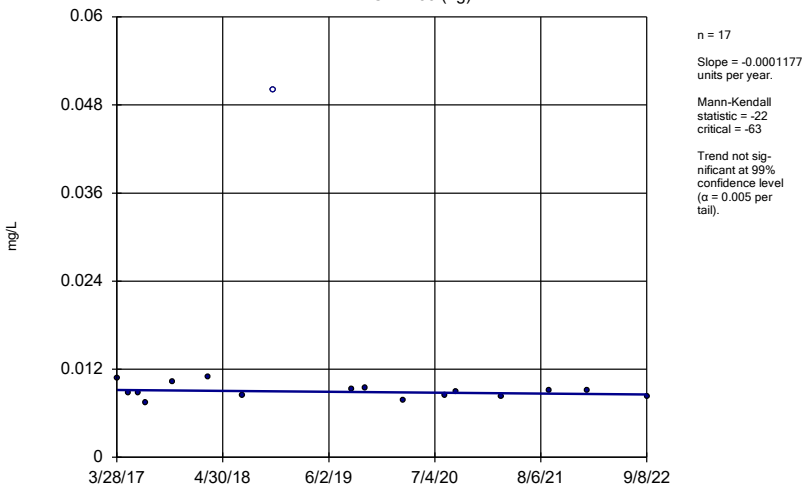
Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-53 (bg)



n = 17

Slope = -0.0001177 units per year.

Mann-Kendall statistic = -22
critical = -63

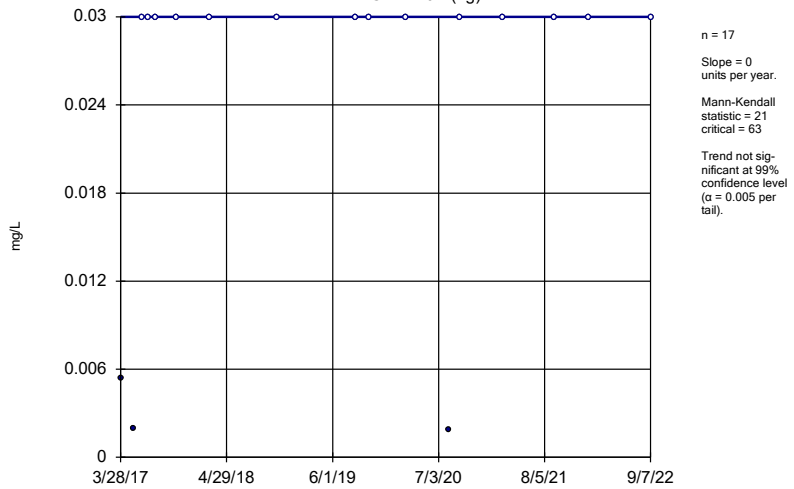
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lithium Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 21
critical = 63

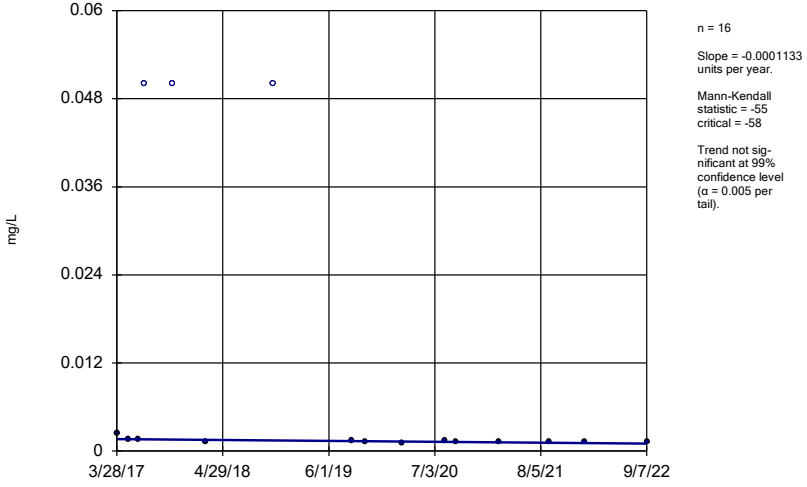
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lithium Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 16

Slope = -0.0001133 units per year.

Mann-Kendall statistic = -55
critical = -58

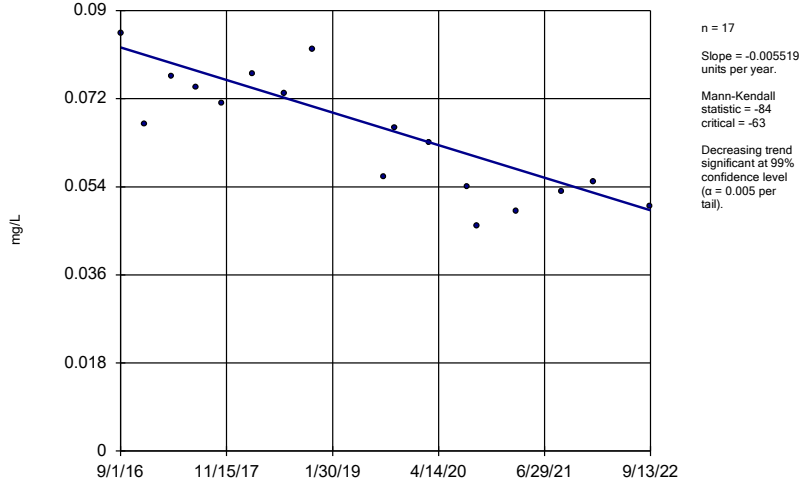
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lithium Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWC-47



n = 17

Slope = -0.005519 units per year.

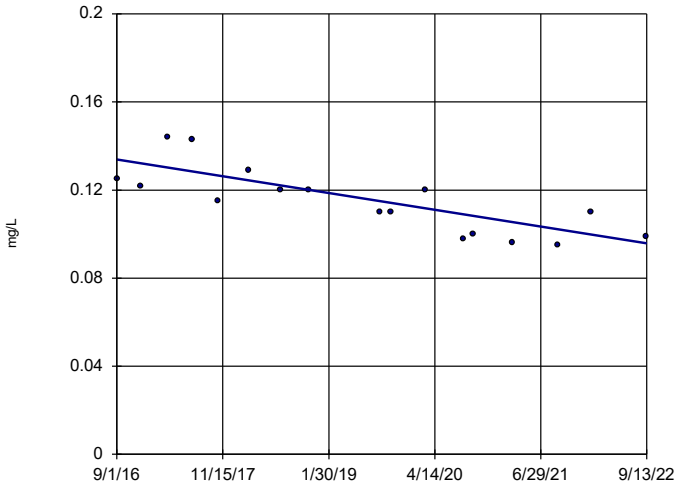
Mann-Kendall statistic = -84
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lithium Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-48



n = 17

Slope = -0.006296 units per year.

Mann-Kendall statistic = -90
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lithium Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

APPENDIX E

Semi-Annual Remedy Selection and Design Progress Report

REPORT

2022 Semi-Annual Remedy Selection and Design Progress Report

Plant McDonough-Atkinson Ash Pond 2 and 3/4

Submitted to:

Georgia Power Company
241 Ralph McGill Boulevard, Atlanta, Georgia 30308

Submitted by:

WSP USA Inc.
5170 Peachtree Road Building 100 Suite 300, Atlanta, Georgia, USA 30341
+1 770 496-1893

February 28, 2023

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Tables

Figures

Appendices

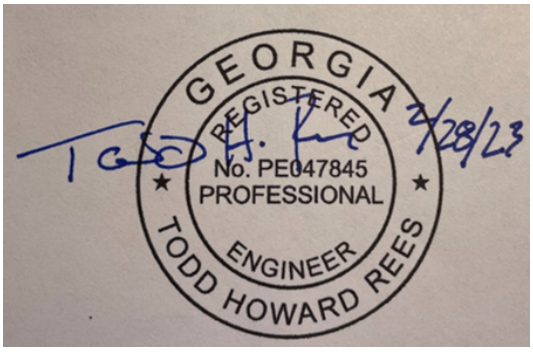
Certification

This *2022 Semi-Annual Remedy Selection and Design Progress Report, Georgia Power Company – Plant McDonough-Atkinson, Ash Pond 2 and Ash Pond 3/4*, has been prepared in accordance with the United States Environmental Protection Agency coal combustion residual rule, specifically 40 Code of Federal (CFR) 257.97(a) and the Georgia Environmental Protection Division Rules for Solid Waste Management 341-3-4-.10(6)(a). 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).

WSP USA Inc.

Dawn L. Prell
Senior Hydrogeologist

Rhonda N. Quinn, PG
Georgia Professional Geologist No. 1031



Todd H. Rees, PhD, PE
Georgia Licensed Professional Engineer No. 047845

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (US EPA) coal combustion residuals (CCR) rule [40 Code of Federal Regulations (CFR) 257 Subpart D]; published in 80 FR 21302-21501, April 17, 2015 (CCR Rule; US EPA, 2015a), WSP USA Inc. (WSP) has prepared this *2022 Semi-Annual Remedy Selection and Design Progress Report Plant McDonough-Atkinson* for Georgia Power the Company (Georgia Power) Plant McDonough-Atkinson Ash Pond 2, Ash Pond 3 and Ash Pond 4 (AP-2 and 3/4 or Site, or AP-2, AP-3, AP-4, respectively). Specifically, this semi-annual progress report has been prepared pursuant to 40 CFR § 257.97(a) and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10(6)(a). This semi-annual report documents activities conducted in support of the previously submitted *Assessment of Corrective Measures (ACM) Report – Plant McDonough-Atkinson Ash Pond 2 and AP-3/4* (ACM Report; Golder, 2020).

Plant McDonough, formerly a coal-fired power generating facility, was converted to a natural gas combined-cycle power generating facility in 2011. A Site location map is included as Figure 1.

Pursuant to § 257.96, Georgia Power initiated an ACM for AP-2 and 3/4 on July 9, 2020, to address the occurrences of arsenic, beryllium, cobalt and lithium in groundwater at statistically significant levels (SSLs). Subsequently, Georgia Power completed an ACM Report on December 4, 2020, and posted it to the CCR compliance website in January 2021. Since the submission of the ACM Report, selenium was identified as an SSL on February 26, 2021, at well DGWC-9 and radium was identified as an SSL at wells B-104D and B-109D on February 28, 2022. Following the recent September 2022 monitoring event lithium at well B-120D was identified as an SSL. An Alternate Source Demonstration (ASD) for the occurrences of radium has been submitted to GA EPD.

The purpose of the ACM Report (and subsequent semi-annual progress reports) is to document the process of evaluating and selecting corrective measure(s) to improve groundwater quality. This process is typically iterative and may be composed of multiple steps to analyze the effectiveness of corrective measures. Once potential corrective measures are identified, they are further evaluated using the criteria outlined in § 257.96(c) and Rule 391-3-4-.10(6)(a). The selected corrective measure must meet the additional protection criteria outlined in § 257.97(b) and corresponding Rule 391-3-4-.10(6)(a). Pursuant to § 257.97(a) and Rule 391-3-4-.10(6)(a), semi-annual progress reports have been regularly submitted to document the efforts of evaluating and progressing toward selecting a groundwater corrective measure.

In addition to the assessment monitoring program at the Site, Georgia Power conducted a human health and ecological risk evaluation to evaluate constituents present at SSLs in groundwater (i.e., arsenic, beryllium, cobalt, and lithium) at AP-2 and 3/4 (Wood, 2020). The evaluation provides one of many lines of evidence that will be evaluated and factored into the remedy selection process. Based on this risk evaluation, concentrations of arsenic, beryllium, cobalt and lithium detected in groundwater at AP-2 and 3/4 between August 2016 and March 2020 are not expected to pose a risk to human health or the environment (Wood, 2020). Arsenic, beryllium, cobalt and lithium data collected since March 2020 are consistent with the data used in the risk evaluation; therefore, the conclusions of the *2020 Risk Evaluation Report* are supported by current conditions. The risk evaluation will be updated to include selenium and radium (as necessary), and the results will be submitted with the final Remedy Selection Report.

A potable well survey of potential groundwater wells within a two-mile radius of AP-2 and 3/4 was conducted in January 2023 and consisted of reviewing federal, state, and county records, and online resources. A survey conducted by Environmental Data Resources (EDR) is included in Appendix A. Additional federal, state, and county records, and online sources outside of the EDR survey were also reviewed by WSP. The Cobb County Environmental Health Department responded that they did not have records of approved water wells within a 2-mile radius of AP-2 and 3/4. The EDR report identified nine water wells and eight U.S. Geological Survey (USGS) wells. Seven of the eight USGS wells overlapped with the location of water wells and the wells were listed as inactive on the USGS well database. The wells identified with a “B” identifier in the EDR report are associated with industrial activity at the nearby Metro Green II facility and are not for potable water use. The three water wells identified with a “C” identifier in the EDR Report are associated with various water treatment facilities beyond the two-mile radius of AP-2 and 3/4 and are misidentified on the EDR Report Physical Setting Map. The well Identified with the “P18” identifier on the EDR Report is a surface water intake associated with the City of Atlanta. The water well with a “D” identifier on the EDR Report is associated with a former gas station and was likely used for groundwater monitoring. Twelve wells from the 2020 well survey (Wood, 2020) were not included in the 2023 EDR report and cannot be verified.

1.1 AP-2 and 3/4 Closure Activities

At AP-2, closure by removal of ash was completed in September 2016. Following submittal of the Closure Permit Application to GA EPD in November 2018, additional verification methods were employed due to the amount of time that elapsed between the completion of CCR removal and the preparation to backfill AP-2 following removal of temporary minor stockpiles. As such, the removal verification process was repeated in 2019 ahead of proposed backfilling activities, with supplemental removal in 2019. Closure procedures included excavating all visible CCR, over excavating into the subgrade soils, and placement of topsoil and seeding for vegetative cover. A closure certification report was submitted to GA EPD on March 30, 2020, and receipt acknowledged on October 14, 2020. AP-3 and adjacent AP-4 are currently being consolidated and closed in place as combined CCR Unit AP-3/4 in accordance with § 257.102(d), no longer receive CCR, and are in the process of obtaining a solid waste permit under the GA EPD Rules for Solid Waste Management 391-3-4-.10(6).

At AP-3/4, closure is nearly complete. CCR in the eastern portion of AP-4 has been relocated to the western portion of AP-4 as well as dry stacked on AP-3. During closure, AP-3 and AP-4 are being dewatered to facilitate consolidation and closure in place. CCR has been graded within the footprint of the impoundment to create a subgrade for the final cover system. Additional dewatering has commenced to facilitate lowering of the dam. This process is expected to result in groundwater flow returning to its original, pre-construction flow direction to the south.

The *Closure Plan* (Golder, 2019) was prepared in accordance with § 257, Subpart D and meets the requirements of § 257.102(b) and following complete closure, maintenance will be provided on the final cover system for the required post-closure care period so that the integrity and effectiveness of the final cover system is maintained.

1.2 Evaluation of Corrective Measures

Pursuant to § 257.97, Georgia Power is evaluating the potential corrective measures in the ACM Report to identify a remedy or combination of remedies as soon as possible. The following corrective measures are potentially feasible for use at AP-2 and 3/4:

- Geochemical Approaches (In-Situ Injection)
- Hydraulic Containment (Pump and Treat)
- Monitored Natural Attenuation (MNA)
- In-Situ Solidification/Stabilization (ISS)
- Permeable Reactive Barrier (PRB)
- Phytoremediation (Phyto)
- Subsurface Vertical Barrier Wall (SVBW).

An evaluation of remedial technologies is presented in Table 1. As required by the CCR rule, this semi-annual progress report describes the progress made in selecting and designing a remedy, as well as to incorporate the SSLs of lithium at B-120D.

The following remedial alternatives have been retained for further evaluation:

- **Geochemical Approaches (In-Situ Injection):** An injection well network, or other means of introducing reagents or air into the subsurface, to provide suitable reagents for either anaerobic or aerobic attenuation of constituents present at SSLs constituents (arsenic, beryllium, cobalt, lithium and selenium). In-situ chemical oxidation (ISCO) or in-situ chemical reduction (ISCR) can be used to chemically alter the redox environment in the subsurface. Bench-scale treatability studies have indicated this treatment can be effective in reducing constituents to below the GWPS in groundwater and therefore has been retained for further evaluation.
- **Hydraulic Containment (Pump and Treat):** Hydraulic containment involves extracting groundwater from wells or collection trenches to depress the water table and locally control the flow of groundwater. Groundwater extraction wells are feasible to install and can be designed and screened in the unconsolidated saprolite, transition zone, and fractured bedrock materials at the Site for effective hydraulic capture. A groundwater flow model for the site is in process and further evaluation of a potential extraction system is warranted and therefore hydraulic containment has been retained for further evaluation.
- **Monitored Natural Attenuation (MNA):** MNA relies on natural attenuation processes to achieve site-specific remediation objectives within a reasonable time frame relative to more active methods. Continued testing of the site soil and groundwater is ongoing to determine the adsorption and desorption capacity of the site materials. As such, MNA is retained for further evaluation.

The following remedial alternatives have been removed from consideration:

- **In-Situ Solidification Stabilization (ISS):** AP-2 and 3/4 is currently undergoing a closure process that includes dewatering and consolidation of ash. Ash remaining in place is unsaturated, and capped, with decreasing moisture and nearly zero infiltration rendering this remedial alternative unneeded. Other retained options are more effective in addressing groundwater corrective action.
- **Permeable Reactive Barrier (PRB):** Other retained options are more suitable for corrective action rather than the installation of a PRB for the following reasons. The lack of space between the unit boundary and the property line makes it a less suitable option at many areas downgradient of AP-2, and 3/4. Further, construction of a PRB is likely to impede or restrict restoration of natural groundwater flow across AP-3/4.

- **Phytoremediation (Phyto):** Other retained options are more suitable for corrective action rather than phytoremediation. In areas north and northeast of AP-3/4 limited space is available between the CCR unit boundary and the property boundary. This combined with the presence of Site utilities makes this alternative unfeasible in this area. For areas south of AP-3, pH is the driver for the elevated cobalt concentrations. Phytoremediation is not a feasible alternative to address low pH conditions. For these reasons, phytoremediation has been removed from consideration.
- **Subsurface Vertical Barrier Wall (SVBW):** AP-2 and 3/4 is currently undergoing a closure process that includes dewatering and consolidation of ash. Ash remaining in place is unsaturated, and capped, with decreasing moisture and nearly zero infiltration making constructing a SVBW outside the perimeter of the AP-2 and 3/4 boundary unnecessary.

1.3 Adaptive Site Management

Georgia Power proactively initiated adaptive Site management as outlined in the ACM Report (Golder, 2020) to support the groundwater remedy selection process and address potential changes in Site conditions as appropriate during the ash pond closure. The adaptive Site management approach takes existing Site conditions, including natural attenuation mechanisms into account. Characterization activities to evaluate attenuation mechanisms at the Site may include collection of data necessary to progressively evaluate the existing and long-term effectiveness of these processes in the aquifer and reduce uncertainty for decision making at each screening step as listed in the US EPA guidelines for MNA (US EPA 2007, 2015b). In 2007, the US EPA issued MNA technical guidance specific to inorganic contaminants (US EPA, 2007) that contained four “tiers.” The 2015 MNA guidance retains these four “tiers,” but describes them as “phases” as described below (US EPA, 2015b).

- **Phase I:** Demonstration that the groundwater plume is *not expanding*.
- **Phase II:** Determination that the *mechanism and rate* of the attenuation process are sufficient.
- **Phase III:** Determination that the *capacity* of the aquifer is sufficient to attenuate the mass of contaminant within the plume and the *stability* of the immobilized contaminant is sufficient to resist re-mobilization.
- **Phase IV:** Design of a *performance monitoring program* based on an understanding of the mechanism of the attenuation process, and establishment of contingency remedies tailored to site-specific characteristics.

Georgia Power will address Phase IV as appropriate during the development of the future corrective action monitoring plan, after the final remedy selection report.

2.0 SUMMARY OF WORK COMPLETED

The following subsections summarize field investigation activities and supplemental data collected since the previous *Semi-Annual Remedy Selection and Design Progress Report* (Golder, 2022a). These activities support Site characterization and delineation of Appendix IV SSLs, as well as evaluation of the corrective measures presented in the ACM Report. These data will be used to evaluate the feasibility, mechanisms, rates, and stability of identified remedial alternatives, to address SSLs of arsenic, beryllium, cobalt, and lithium in groundwater at AP-

2 and 3/4. An evaluation of these data as they relate to remedy selection alternatives is ongoing and will be presented in a future report(s).

2.1 Nature and Extent Delineation

The July through December 2022 assessment monitoring groundwater data show SSLs at concentrations that exceed the state and/or federal Groundwater Protection Standards (GWPS) as presented in the table below. Details are provided in the *2022 Semi-Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2023).

AP-2 and 3/4 Statistically Significant Level Exceedances	
Appendix IV Parameter	**AP-2 and 3/4 Monitoring Well**
Arsenic	DGWC-9
Beryllium	DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48, B-92, B-93, B-115D
Cobalt	DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, B-93, B-104D, B-115D
Lithium	DGWC-47, DGWC-48, B-115D, B-120D
Combined Radium	B-104D, B-109D

The locations of the Site monitoring wells and piezometers are shown on Figures 2. Table 2 provides a summary of well construction details for each of the Site wells and piezometers. Potentiometric surface maps of the September 2022 groundwater surface elevations are provided on Figures 3A and 3B.

Potential trends in SSL constituent concentrations were further evaluated by Groundwater Stats Consulting (GSC) using the Sen's Slope/Mann Kendall trend test (Appendix B). The full report generated from the analyses is provided in Appendix D of the *2022 Semi-Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2023). With the exception of a slight trend in cobalt at DGWC-9, the lack of increasing trends at wells where SSLs have been identified confirms that the chemical stability of the groundwater appears to be stable. The following statistically significant trends were identified for the noted well/constituent pairs during the September 2022 monitoring event:

- Increasing trends: Cobalt at DGWC-9
- Decreasing trends: Beryllium at DGWC-70A and DGWC-48

  Cobalt at DGWA-53, DGWC-8, DGWC-9, DGWC-10, DGWC-47, and DGWC-48

  Lithium at DGWC-47 and DGWC-48

  Combined Radium DGWA-53

Horizontal and Vertical Delineation

To characterize the nature and extent of arsenic, beryllium, cobalt, and lithium SSLs, multiple wells have been installed and sampled at the Site (Golder, 2022b); refer to the table below for delineation status. In addition, surface water has been sampled at multiple locations to demonstrate horizontal delineation in surface water

bodies where proximity to surface water prevented installation of additional piezometers. Figures 4 through 7 present isoconcentration contours for of each of the constituents with an exceedance of the GWPS: arsenic, beryllium, cobalt, and lithium.

Detection/Assessment Monitoring Well with SSL	Constituent of Concern	Vertical Delineation Well	Horizontal Delineation Well / Surface Water Monitoring Location
DGWC-5	Beryllium	B-111D	B-98, Flow is toward AP-4[2]
DGWC-8	Cobalt	B-106D	B-88, Flow is toward AP-4[2]
DGWC-9	Arsenic	B-101D	DGWC-10, Flow is toward AP-4[2]
	Beryllium	B-101D	DGWC-11, Flow is toward AP-4[2]
	Cobalt	B-101D	DGWC-11, Flow is toward AP-4[2]
	Selenium[3]	B-101D	DGWC-10, Flow is toward AP-4[2]
DGWC-10	Beryllium	B-102D	DGWC-11, Flow is toward AP-4[2]
	Cobalt	B-102D	DGWC-11, Flow is toward AP-4[2]
DGWC-19	Cobalt	B-107D	B-77
DGWC-20	Cobalt	B-108D	B-83
DGWC-47	Beryllium	B-123D[1]	B-77
	Cobalt	B-122D[1]	B-77
	Lithium	B-123D[1]	B-77
DGWC-48	Beryllium	B-104D / B-122D[1]	B-83
	Cobalt	B-122D[1]	B-83
	Lithium	B-104D / B-122D[1]	B-83
B-56	Cobalt	B-101D	B-66, Flow is toward AP-4[2]
B-63	Cobalt	B-122D[1]	DW_US
B-92	Beryllium	B-111D	B-97, Flow is toward AP-4[2]
B-93	Beryllium	B-111D	B-98, Flow is toward AP-4[2]
	Cobalt	B-111D	B-98, Flow is toward AP-4[2]
B-104D	Cobalt	B-122D[1]	B-122D[1]
	Combined Radium[4]	NA[4]	NA[4]
B-109D	Combined Radium[4]	NA[4]	NA[4]
B-115D	Beryllium	B-123D[1]	B-122D[1]
	Cobalt	B-123D[1]	B-122D[1]
	Lithium	B-123D[1]	B-122D[1]
B-120D	Lithium	Pending	DGWC-4

Notes:

[1] Delineation status is pending additional data collection at location B-122D, B-123D. A minimum of four data points is needed to perform the required statistical analyses.
[2] Where groundwater flow is inward, toward AP-4, we have indicated delineation is complete.
[3] Selenium is no longer an SSL and has not been for the previous 2 events. Selenium was first identified in September 2020, current sample results are below the GWPS. GPC will continue to evaluate the occurrence of selenium at DGWC-9 until the upper confidence interval is below the GWPS.
[4] An Alternate Source Demonstration (ASD) for Combined Radium has been submitted for Plant McDonough (Golder, 2022c). Georgia Power will continue to monitor the occurrence of combined radium until such time that GA EPD approves the ASD.

Based on data collected to date, there are no impacts to surface water by constituents with SSLs at AP-2 and 3/4. The horizontal delineation of target SSL constituents is complete. Evaluation of vertical delineation for SSLs at AP-2 and 3/4 is complete with the exception of B-115D (cobalt), B-123D (cobalt) and recently identified SSL of lithium at B-120D. Vertical delineation at these locations is ongoing. Horizontal and vertical delineation is based on review of analytical results, statistical analyses and the isoconcentration contours (Figures 4 to 7).

Naturally Occurring Radium

Based on Site data, the combined radium SSLs at the Site are the result of natural occurring radium in the bedrock influencing groundwater chemistry and not the result of a release from AP-2 and 3/4. An ASD has been prepared and submitted for the Site (Golder, 2022c). The evidence for a natural source of radium to groundwater is as follows:

- Groundwater results for the shallow monitoring wells adjacent to the deep delineation wells have never reported a combined radium SSL, nor have any other shallow monitoring wells at the Site.
- Combined radium concentrations in groundwater samples collected from the deep delineation wells have decreased since well installation.
- The wells with elevated radium concentrations show low levels of CCR indicator parameters.
- Naturally occurring parent elements have been identified in bedrock samples collected from the screened intervals of the deep/bedrock delineation wells.
- Radionuclides are known to be present in regional aquifer materials and regional groundwater, based on multiple sources/references.

Based on this demonstration (Golder, 2022c), the combined radium concentrations at the Site are attributed to a natural source, and not due to a release from the Ash Pond.

2.2 Supplemental Data Collection and Analysis

Additional field investigation activities and data analyses have been performed to evaluate alternate sources and possible remedial alternatives. Groundwater samples collected from the detection and assessment monitoring well networks in September 2022 were analyzed for major ions (magnesium, potassium, sodium, and total and bicarbonate alkalinity) and minor ions (iron and manganese). Results are included in the *2022 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2023).

Bench-Scale Treatability Study

Terra Systems, Inc. (TSI) was subcontracted to perform a bench-scale treatability study to evaluate potential in-situ geotechnical remediation approaches for reducing SSL constituents in AP-2 and 3/4 groundwater, Groundwater samples from monitoring wells DGWC-20, DGWC-48 were collected in June 2022 and submitted to TSI for testing. Neither lithium nor selenium were detected in the raw DGWC-20, and DGWC-48 samples, so these analytes were not evaluated in the study. The treatability study evaluated detected SSL constituent neutralization/precipitation with potassium and sodium bicarbonates and precipitation/adsorption with ferric oxide and ferrous sulfide. TSI's October 21, 2022 bench study report is presented in Appendix C.

Each groundwater sample (DGWC-20, and DGWC-48) was tested at three dosages for each reagent (potassium bicarbonate, sodium bicarbonate, ferric oxide, and ferrous sulfide). Groundwater sample aliquots of approximately one liter were dosed and mixed for seven days, then the final SSL concentrations were measured and compared to the raw groundwater concentrations to assess reagent performance.

- **Arsenic.** Dissolved arsenic in the DGWC-20 samples was reduced to or below the GWPS in all of the sodium and potassium bicarbonate doses and the ferrous sulfide doses. DGWC-48 treatments achieved dissolved arsenic below the GWPS only in the low sodium bicarbonate, low high ferric oxide, and low/medium ferrous sulfide doses.
- **Beryllium.** The GWPS for dissolved beryllium was achieved in all of the ferrous sulfide doses and all but one of the twelve potassium and sodium bicarbonate doses (the exception being the low sodium bicarbonate dose for DGWC-48). Ferric oxide was not effective in any of the AP-2 and 3/4 samples for beryllium.
- **Cobalt.** Only ferrous sulfide additions achieved dissolved cobalt concentrations below the GWPS in the AP-2 and 3/4 groundwater samples, and in all but the low dose for DGWC-20.

The treatability study indicates that in-situ pH and redox adjustments have potential applicability as treatment options for AP-2 and 3/4 groundwater. Reducing conditions (ferrous sulfide) tended to be the most effective for sequestering all three metals in the study, and oxidizing conditions (ferric oxide) were generally not effective. Neutralization was somewhat effective for arsenic and beryllium, but not in all samples. Lithium was not present in samples collected from the site for the treatability study. As such, the treatability study for lithium is ongoing.

3.0 UPDATED SITE CONCEPTUAL SITE MODEL

The additional data collected since the issuance of the ACM, together with new data evaluation tools and interpretations (described in the previous semi-annual remedy selection report), allow the development of a more refined conceptual site model (CSM). The following summarizes the current understanding of the CSM within the context of selecting an appropriate groundwater corrective measure for AP-2 and 3/4.

- Data collected during this reporting period are consistent with the CSM as described in Hydrogeologic Assessment Report (HAR; Golder, 2022b).
  - Groundwater elevations recorded from Site monitoring wells have been used to update the Site potentiometric surface contour map. The groundwater flow direction interpreted during the September 2022 water level gauging event, as shown on Figures 3A and 3B, is consistent with the post closure model predictions. Groundwater flow is radial from high to low topography with an overall south-southeast flow towards the Chattahoochee River, consistent with pre-Site development conditions.

Although groundwater flow is generally towards the south, monitoring wells previously established for delineation north of the unit will remain in the network for the time being.

- Data from additional vertical delineation wells was used to refine the bedrock surface contour map. Minor modifications to the bedrock surface have been documented in the HAR and do not significantly impact the CSM (Golder, 2022b)

4.0 PLANNED ACTIVITIES

Georgia Power has initiated activities as outlined in the ACM Report (Golder, 2020) to support the groundwater remedy selection process and address potential changes in Site conditions as appropriate. The adaptive Site management approach toward remedy selection may be adjusted over the Site's life cycle as new Site information and technologies become available. To this end, Georgia Power will continue its data collection efforts as necessary in support of efforts to refine the CSM and to further evaluate the feasibility of each corrective measure identified in the ACM Report.

Supplementary data collection and evaluation activities proposed to be completed within the next 6 months are presented on Table 3, with the key elements summarized below.

- In addition to Appendix III/IV constituents, samples may also be analyzed for major cations/anions and other parameters for further characterization of groundwater and evaluation of plume stability as well as potential remedies.
- Install additional vertical delineation wells to address continued and new SSLs.
- Collect aquifer solids samples in the vicinity of B-120D. Samples will be analyzed for soil chemical and mineral data and used to evaluate adsorption capacity of the aquifer and support geochemical modeling at the site.
- Perform geochemical modeling to determine the attenuation capacity of the Site soils as well as adsorption/desorption capacity of the aquifer materials. This information will be used to confirm whether MNA is a feasible alternative.
- Proceed with the final phase of bench scale testing which includes a design and implementation plan.

Georgia Power will continue to prepare semi-annual progress reports to document AP-2 and 3/4 groundwater conditions, results associated with additional data collection, and the progress in selecting and designing a groundwater remedy in accordance with § 257.97(a). Georgia Power will include future semi-annual progress reports in routine groundwater monitoring and corrective action reports to meet the requirements of § 257.105(h)(12), § 257.106(h)(9), and § 257.107(h)(9), respectively.

5.0 REFERENCES

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TABLES

TABLE 1
EVALUATION OF REMEDIAL TECHNOLOGIES
Georgia Power – Plant McDonough-Atkinson Ash Pond 2 and 3/4
Atlanta, Georgia

Corrective Measure	REGULATORY CITATION FOR CRITERIA: 40 CFR 257.96(C)(1)		
	Description	**Performance**	**Reliability**
Geochemical Approaches (in situ injection)	Use of an injection well network, or other means of introducing reagents or air into the subsurface, to provide suitable reagents for either anaerobic or aerobic attenuation of arsenic (As), beryllium (Be), cobalt (Co), lithium (Li) and selenium (Se). Under anaerobic conditions, As would be attenuated within sparingly soluble sulfide minerals. Under aerobic conditions, soluble iron or manganese and oxygen (either via air sparging or through a chemical oxidant) would be injected to promote the formation of iron or manganese (oxy-) hydroxides for subsequent sorption of As, Be, Co, Se and to a lesser degree Li onto these mineral phases. If sufficient iron is present in groundwater, the use of air sparging alone may be considered to precipitate iron (oxy-) hydroxides for sorption. In-situ chemical oxidation (ISCO) or in-situ chemical reduction (ISCR) can be used to chemically alter the redox environment in the subsurface to affect the mobility of certain inorganic compounds, including As.	The effective immobilization of As, Be, Co, Li and Se has been shown under aerobic and anaerobic conditions; however, the anaerobic approach (involving the injection of an electron donor together with iron or manganese and sulfur) requires careful study and testing. While aerobic approaches are somewhat less complex, additional aquifer characterization is needed to further evaluate these options.	Reliability dependent on permeability of the subsurface and the amount and distribution of secondary iron or manganese (oxy-) hydroxides (for aerobic approach), or electron donors and soluble iron or manganese and sulfur that can be consistently distributed (for anaerobic approach). Reliable technology if injected materials can be distributed throughout the impacted aquifer. Bench- and/or pilot-scale treatability testing programs are needed to understand the biogeochemical processes that would effectively reduce migration of As, Be, Co, Li and Se in groundwater.
Hydraulic Containment (pump- and-treat)	Hydraulic containment refers to the use of groundwater extraction to induce a hydraulic gradient for hydraulic capture or control the migration of impacted groundwater. This approach uses extraction wells or trenches to capture groundwater, which may subsequently require above-ground treatment and permitted discharge to a receiving water feature, reinjection into the groundwater, or reuse (e.g., land application, CCR conditioning, etc.). It is applicable to a variable mix of inorganic constituents, including dissolved As, Be, Co, Li and Se.	Pump and treat (P&T) is effective at providing hydraulic control, but it is unclear whether full groundwater remediation can be achieved without further understanding attenuation mechanisms at the Site. At AP-2 & 3/4, implementation of the corrective measure is contingent on completing additional assessment activities (i.e., high-resolution site characterization, additional pump tests, flow modeling, and capture zone analysis). This is needed to refine the constituent distribution in the subsurface to target specific zones for pumping for improved mass recovery efficiency/ effectiveness and to further evaluate the potential remedy performance.	Generally reliable for hydraulic containment, but uncertainty exists whether groundwater remediation goals can be achieved within a reasonable time frame without further understanding attenuation mechanisms.
Monitored Natural Attenuation (MNA)	MNA relies on natural attenuation processes to achieve site-specific remediation objectives within a reasonable time frame relative to more active methods. Under certain conditions (e.g., through sorption, mineral precipitation or oxidation-reduction reactions), MNA effectively reduces the dissolved concentrations of inorganic constituents in groundwater. Attenuation mechanisms for inorganic constituents at CCR sites, including As, Be, Co, Li and Se at AP-2 & 3/4, are either physical (e.g., dilution, dispersion, flushing, and related processes) or chemical (sorption or oxidation reduction reactions). Chemical attenuation processes include precipitation, and sorption reactions such as adsorption on the surfaces of soil minerals, absorption into the matrix of soil minerals, or partitioning into organic matter. Further, oxidation-reduction (redox) reactions, via abiotic or biotic processes, can transform the valence states of some inorganic constituents to less soluble and thus less mobile forms. For Be and Li, the main attenuation processes include sorption to iron and manganese oxides.	Physical and chemical MNA mechanisms for As, Be, Co, Li and Se, including dilution, dispersion, sorption, and oxidation reduction reactions can be effective at achieving groundwater protection standards (GWPS) within a reasonable time frame. Attenuation processes for As, Be, Co, Li and Se are already occurring at the site as evidenced by groundwater data from the delineation wells. Source control will improve the mass balance such that the buffer capacity of the aquifer is unlikely to be exhausted, and the attenuation processes already at work for As, Be, Co, Li and Se at AP-2 & 3/4 will further enhance ongoing MNA.	Reliable as long as sufficient attenuation capacity is present. MNA is reliable and can either be used as a stand-alone corrective measure for groundwater impacted by dissolved As, Be, Co, Li and Se, or in combination with a second technology.

TABLE 1
EVALUATION OF REMEDIAL TECHNOLOGIES
Georgia Power – Plant McDonough-Atkinson Ash Pond 2 and 3/4
Atlanta, Georgia

Corrective Measure	REGULATORY CITATION FOR CRITERIA: 40 CFR 257.96(C)(1)		
	Description	**Performance**	**Reliability**
In-Situ Solidification / Stabilization (ISS)	In-situ stabilization (ISS) is a technique that uses mixing of the CCR with additives to solidify the material in place and reduce future dissolution of CCR compounds from the stabilized material. Additives typically include Portland cement, and the solidification is completed in-situ using large diameter augers. CCR located beneath the water table would be isolated by ISS.	Medium to high, groundwater impacts would be addressed through the processes of natural attenuation. This alternative would isolate/secure the source in a bound matrix, and over time, allow the concentrations of COCs in downgradient groundwater to decline to below applicable standards.	In-situ stabilization can be a reliable corrective measure for As, Be, Co, Li and Se in groundwater. Reliability is dependent on the permeability of the subsurface and mechanics of injection.
Permeable Reactive Barrier (PRB)	Permeable reactive barrier (PRB) technology typically involves the installation of a permeable subsurface wall constructed with reactive media for the removal of constituents as groundwater passes through. Either ZVI-Carbon matrix or solid carbon (bio-barrier) are currently proposed for the concurrent removal of As, Be, Co, Li and Se. The carbon could be composed of peat moss, mulch or another carbon source. Exact placement of the PRB is contingent on finalization of the nature and extent characterization. PRBs can be constructed as “funnel and gate” systems, where a barrier wall directs groundwater to a smaller “treatment gate” filled with reactive media.	PRBs have been shown to effectively address As, Be, Co, Li and Se in groundwater, but additional testing is required for Be and Li to select the appropriate reactive media. The approach is expected to achieve GWPS for both constituents as impacted groundwater passes through the reactive barrier. Certain redox kinetics may be slow and hence a thicker wall might be needed. Furthermore, additional testing is required to select the appropriate sorptive media mix, especially related to Be and Li.	Reliable groundwater corrective measure technology, but loss of reactivity over time may require re-installation depending on the duration of the remedy. Additional data collection, including conducting a bench and/or pilot study, is needed to better characterize current attenuation mechanisms and/or select the appropriate reactive media mix for a PRB wall.
Phyto Remediation (Phyto)	Phytoremediation uses trees and other plants to degrade or immobilize constituents or achieve hydraulic control without the need for an above-ground water treatment system and infrastructure. Within the context of AP-2 & 3/4, this corrective measure would likely be applied along the point of compliance or downgradient edge of the impacted groundwater for hydraulic control. The system promotes root development to the targeted groundwater zone (depth), allowing for hydraulic control of impacted groundwater. In addition, immobilization of As, Be, Co, LI and Se within the root zone as well as incidental uptake of dissolved As, Be, Co, Li and Se with groundwater is expected to occur concurrent with hydraulic control.	Once established (typically at the end of the third growing season), a phytoremediation ‘system’ is effective for providing hydraulic containment of groundwater, and potential reduction of As, Be, Co, Li and Se concentrations through immobilization and/or uptake and sequestration in the tree biomass; however, the main purpose is to provide hydraulic control. However, changing site conditions may make the corrective measure viable for the area downgradient of AP-2 & 3/4. Additional aquifer testing and/or groundwater flow modeling may be needed to confirm the suitability at that time.	Engineered phytoremediation is a proven technology where hydrogeologic factors are taken into account (e.g., hydraulic conductivity, flow velocity, depth to impacted groundwater zone, etc.). This is considered an active remedial approach through the use of trees as the "pumps" driving the system. Careful design will be needed to select the proper species, which will include consideration of groundwater chemistry, plant uptake of constituents, and groundwater flow.
Subsurface Vertical Barrier Walls	This approach involves placing a barrier to groundwater flow in the subsurface, frequently around a source area, to prevent future migration of dissolved constituents in groundwater from beneath the source to downgradient areas. In general, barrier walls are designed to provide containment; localized treatment achieved through the sorption or chemical precipitation reactions from construction of the walls are incidental to the design objective. Barrier walls can also be used in downgradient applications to limit discharge to a surface water feature or to reduce aquifer recharge from an adjacent surface water feature when groundwater extraction wells are placed near one. A variety of barrier materials can be used, including cement and/or bentonite slurries, geomembrane composite materials, or driven materials such as steel or vinyl sheet pile. Groundwater extraction from upgradient of the barrier is required to avoid groundwater mounding behind the barrier.	Barrier walls are a proven technology for seepage control and/or groundwater cutoff at impoundments. Slurry walls are limited by the depth of installation, which is approximately 90 ft below ground surface. However, site-specific geologic and technology-specific considerations may limit this depth to shallower installations. Additional subsurface investigations, aquifer testing, and compatibility testing with site-specific groundwater will be needed.	Generally reliable as a barrier to groundwater flow; however, treatment of downgradient groundwater is incidental and not the primary objective.

TABLE 1
EVALUATION OF REMEDIAL TECHNOLOGIES
Georgia Power – Plant McDonough-Atkinson Ash Pond 2 and 3/4
Atlanta, Georgia

Corrective Measure	REGULATORY CITATION FOR CRITERIA: 40 CFR 257.96(C)(1)		
	Ease of Implementation	**Potential Impacts**	**Time Requirement to Begin/Complete**
Geochemical Approaches (in situ injection)	Moderate. Installation of injection well network or other injection infrastructure would be required. Alternative installation approaches may be considered, such as along the downgradient edge of impacted groundwater, which would function similar to a PRB application. Potential for clogging of aquifer matrix and/or injection well infrastructure. Chemical distribution during injections (i.e., radius of influence) needs to be evaluated.	Minimal impacts are expected if remedy works as designed, based on a thorough pre-design investigation, geochemical modeling, and bench/pilot study results. Redox-altering processes have the potential to mobilize naturally-occurring constituents as an unintended consequence if not properly studied and implemented.	Installation of the injection network can be accomplished relatively quickly (1 to 2 months). However, a thorough pre-design investigation, geochemical modeling, and/or bench- and/or pilot-testing will be required to obtain design parameters prior to design and construction of the corrective measure, which may take up to 24 months. Once installed, the time required to achieve GWPS within the treatment area may be relatively quick but depends on the attenuation process kinetics of each targeted constituent. The time for complete distribution of the injected materials throughout the treatment area is also variable.
Hydraulic Containment (pump- and-treat)	Moderate. Proven approach, and supplemental installation of extraction wells/trenches is fairly straightforward. The extracted groundwater may potentially require an above-ground treatment system. A variety of sorption and precipitation approaches exist for ex-situ treatment of As, Be, Co, Li and Se. Operation and maintenance (O&M) requirements are expected to include upkeep of infrastructure components (pumps, pipes, tanks, instrumentation and controls, above-ground treatment system) and handling of treatment residuals.	Moderate. The main potential impacts are related to the presence and operation of an on-site above-ground water treatment facility and related infrastructure to convey and treat extracted groundwater. Pumping activity may unintentionally alter the geochemistry within the hydraulic capture zone.	Installation of extraction wells and/or trenches can be accomplished relatively quickly (1 to 2 months). However, additional aquifer testing, system design and installation, and permit approval may be required, which may take up to 24 months. The initiation of the approach would be contingent on the start-up of the wastewater treatment infrastructure. Hydraulic containment can be achieved relatively quickly after startup of the extraction system, but uncertainty exists with respect to the time to achieve GWPS without additional data collection to better understand attenuation mechanisms for As, Be, Co, Li and Se.
Monitored Natural Attenuation (MNA)	Reasonably implementable with respect to infrastructure, but moderate to complex with respect to documentation. Proven approach, but additional data are needed to show that the existing attenuation capacity is sufficient to meet site objectives within a reasonable timeframe. A monitoring well network already exists to implement future groundwater monitoring efforts.	None. MNA relies on the natural processes active in the aquifer matrix to reduce constituent concentrations without disturbing the surface or the subsurface.	The infrastructure to initiate MNA is already in place. Demonstrating attenuation mechanisms and capacity can be time-consuming and can take up to 24 months. MNA is expected to be successful within a reasonable time frame following pond closure. Engineering measures will be implemented during closure of AP-2 & 3/4 to minimize potential impacts to the subsurface during closure activities and routine groundwater monitoring will be used to verify that groundwater impacts remain stable or decrease over time.

TABLE 1
EVALUATION OF REMEDIAL TECHNOLOGIES
Georgia Power – Plant McDonough-Atkinson Ash Pond 2 and 3/4
Atlanta, Georgia

Corrective Measure	REGULATORY CITATION FOR CRITERIA: 40 CFR 257.96(C)(1)		
	Ease of Implementation	**Potential Impacts**	**Time Requirement to Begin/Complete**
In-Situ Solidification / Stabilization (ISS)	Easy to moderate, implementation of ISS will require a detailed design effort with bench scale testing to determine the appropriate amendment mix for a variety of overburden geologic materials. Pilot testing will also be needed to verify the ability of equipment to solidify material at depth. ISS has not been commonly used to stabilize entire ash units as part of a closure strategy.	Potential impacts of the remedy will be negligible.	In-situ stabilization of AP-2 & 3/4 is predicted to take a number of years to complete, depending on the availability of specialized contractors and equipment.
Permeable Reactive Barrier (PRB)	Moderate to difficult. Trenching would be required to install a mix of reactive materials in the subsurface. Continuous trenching may be the most feasible construction method. Installation methods and materials are readily available. Once installed, treatment will be passive and O&M requirements are minimal if replacement of the PRB is not necessary.	Minimal impacts are expected following the construction of the remedy. However, ZVI has the potential to create anaerobic conditions downgradient of the PRB wall that may mobilize redox-sensitive naturally-occurring constituents. These conditions need to be carefully monitored. Short-term impacts during the construction of the remedy can be mitigated through appropriate planning and health and safety measures.	Installation of a PRB can be accomplished relatively quickly (6 to 12 months), depending on the final location and configuration. However, bench- and/or pilot-testing would be required to obtain design parameters prior to design and construction of the remedy, which may take up to 24 months. Once installed, the time to achieve GWPS downgradient of the PRB is anticipated to be relatively quick.
Phyto Remediation (Phyto)	Reasonably implementable to moderate. Engineered approach has been proven effective, and specific depth zones can be targeted. Trees are installed to get the roots deep enough to intercept impacted groundwater flow paths. Area must be clear of above and below-ground structures (e.g., power lines). The system, once established (approximately three growing seasons), is a self-maintaining, sustainable remedial system that has no external energy requirements and little maintenance (i.e., efforts normally associated with landscaping).	Minimal impacts are expected. In fact, there are several positive impacts expected, including enhanced aesthetics, wildlife habitat, and limited energy consumption.	The design phase will require some groundwater modeling, which may take up to 6 months. Depending on the number of required units, the installation effort is expected to last several weeks. Hydraulic capture/control is expected approximately three years after planting and system performance is expected to further improve over time.
Subsurface Vertical Barrier Walls	Moderate to difficult. Trenching will be required to fill in the various slurry mixes; alternatively, sheet pile installations can be accomplished without excavation of trenches. The application of barrier walls is limited by the depth of installation. Installation methods and materials are readily available. Once installed, above-ground infrastructure to pump and treat groundwater will be required. O&M requirements are expected to include upkeep of infrastructure components (pumps, pipes, tanks, instrumentation and controls, above-ground treatment system) and handling of treatment residuals.	Minimal impacts are expected following the construction of the remedy. Short-term impacts during the construction of the remedy can be mitigated through appropriate planning and health and safety measures. Changes to groundwater flow patterns due to installation of the barrier wall are expected, which can affect other aspects of groundwater corrective action. Pumping activity may unintentionally alter the geochemistry within the hydraulic capture zone that may result in the mobilization of other constituents that may require treatment.	Installation of a barrier wall can be accomplished relatively quickly (6 to 12 months), depending on the final location and configuration. However, some design phase and additional aquifer and compatibility testing will be required, which may take up to 24 months. Once installed, preventing migration of constituents dissolved in groundwater is anticipated to be relatively quick. Since this approach does not treat the downgradient area of impacted groundwater but prevents migration from a source area, it will likely have to be maintained long-term and coupled with other approaches.

TABLE 1
EVALUATION OF REMEDIAL TECHNOLOGIES
Georgia Power – Plant McDonough-Atkinson Ash Pond 2 and 3/4
Atlanta, Georgia

Corrective Measure	REGULATORY CITATION FOR CRITERIA: 40 CFR 257.96(C)(1)			Retention Evaluation
	Institutional Requirements	Other Env. Or Public Health Requirements	Relative Costs	
Geochemical Approaches (in situ injection)	Deed restrictions may be necessary until in-situ treatment has achieved GWPS. A new underground injection control (UIC) permit (for in-situ injections) would be required to implement this corrective measure. No other institutional requirements are expected at this time.	None expected at this point. Potential for mobilization of redox-sensitive constituents exists during implementation of an anerobic attenuation approach. Following installation, the remedy is passive.	Medium (depending on expanse of injection network required and injectate volume required per derived design parameters)	Retained for further analysis; can be applied to As, Be, Co, and Se as a sparingly-soluble mineral, or could be applied to raise the groundwater pH to promote immobilization through sorption mechanisms. Additional evaluation required to determine likelihood to treat Li.
Hydraulic Containment (pump- and-treat)	Depending on the effluent management strategy, modifications to the existing NPDES permit may be required, or obtaining a new underground injection control (UIC) permit may be needed if groundwater reinjection is chosen. In addition, deed restrictions may be required as long as groundwater conditions are above regulatory standards for unrestricted use.	Above-ground treatment components may need to be present for an extended period of time, generating residuals requiring management and disposal.	Medium to high (depending on remedy duration, complexity of above-ground treatment system, and volume of water processed)	Retained for further analysis; extracted water could be routed to wastewater treatment infrastructure built for dewatering and closure of ponds at the site. Could be considered an effective measure to maintain hydraulic control.
Monitored Natural Attenuation (MNA)	MNA may require the implementation of institutional controls, such as deed restrictions, to preclude potential exposure to groundwater within the footprint of impacted groundwater until GWPS are achieved.	Little to no physical disruption to remediation areas and no adverse construction-related impacts are expected on the surrounding community.	Low to medium	MNA is a suitable option at the Site for the following reasons: Concentrations of the target constituents showing SSLs are stable, decreasing, or are not increasing over time based on several years of monitoring data; Iso-concentration maps show the SSL constituents are well-defined and limited in extent; and dewatering and installation of closure-cover at the Site favors restoration of natural (pre-impoundment) groundwater flow.
In-Situ Solidification / Stabilization (ISS)	Deed restrictions may be necessary until groundwater concentrations are below GWPS. No other institutional requirements that may limit application of this technology are expected at this time.	Changes to groundwater chemistry relative to the mobility of Appendix IV constituents following completion of ISS, where large volumes of amendments (typically Portland cement) are added to the subsurface, are unknown and would require pilot testing.	Medium, depending on permeability of aquifer	Not retained for further analysis. AP-2 and 3/4 is currently undergoing a closure process that includes dewatering and consolidation of ash. Ash remaining in place is unsaturated, and capped, with very little moisture or infiltration rendering this remedial alternative unneeded. Other retained options are more effective in addressing groundwater corrective action.

TABLE 1
EVALUATION OF REMEDIAL TECHNOLOGIES
Georgia Power – Plant McDonough-Atkinson Ash Pond 2 and 3/4
Atlanta, Georgia

Corrective Measure	REGULATORY CITATION FOR CRITERIA: 40 CFR 257.96(C)(1)			Retention Evaluation
	Institutional Requirements	Other Env. Or Public Health Requirements	Relative Costs	
Permeable Reactive Barrier (PRB)	Deed restrictions may be necessary for groundwater areas upgradient of the PRB (if not installed along the waste boundary). No other institutional requirements are expected at this time.	None expected at this point. Following installation, the remedy is passive. However, certain treatment media (such as ZVI) have the potential to mobilize naturally-occurring constituents downgradient of the PRB.	Medium to high (for installation) - minimal O&M requirements if replacement is not necessary	Not retained for further analysis; a PRB cannot treat groundwater downgradient of the constructable alignment; there is minimal space available downgradient of the impacted wells; potential for increased maintenance due to potential biofouling and mineral precipitation. Further, construction of a PRB is likely to impede or restrict restoration of natural groundwater flow across AP-3/4.
Phyto Remediation (Phyto)	No institutional requirements are expected at this time.	None expected at this point. Following installation, the remedy is passive and does not require external energy.	Medium (for installation) - minimal O&M requirements	Not retained for further analysis; In areas north and northeast of AP-3/4 limited space is available between the CCR unit boundary and the property boundary and combined with the presence of site utilities makes this alternative unfeasible in this area. For areas south of AP-3, pH is the driver for the elevated cobalt concentrations. Phytoremediation is not a feasible alternative to address low pH conditions.
Subsurface Vertical Barrier Walls	Deed restrictions may be necessary for groundwater areas downgradient of the barrier wall until remedial goals are met. No other institutional requirements are expected at this time.	Due to the need for groundwater extraction associated with barrier walls, above-ground treatment components may need to be present for an extended period of time, generating residuals requiring management and disposal.	Medium to high (depending on length and depth of wall, remedy duration and complexity of above-ground treatment system)	Not retained for further analysis. A SVBW cannot treat groundwater downgradient of the constructable alignment; there is minimal space available downgradient of the impacted wells.

TABLE 2
SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION DATA
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
ASH POND 1 (AP-1) DETECTION MONITORING WELL NETWORK											
DGWA-53	Upgradient	Upper Bedrock	1393472.8	2201668.8	844.26	841.3	28.9	823.7	813.7	10	9/24/2016
DGWA-70A	Upgradient	Overburden	1390481.4	2200591.6	808.52	805.8	59.3	756.9	746.9	10	5/10/2017
DGWA-71	Upgradient	Overburden	1393963.3	2201714.8	863.84	861.2	43.8	827.8	817.8	10	2/28/2017
DGWC-37	Downgradient	Overburden	1390482.2	2200919.8	766.21	763.7	39.7	734.4	724.4	10	11/28/2012
DGWC-38	Downgradient	Overburden	1390362.7	2201148.6	757.43	754.7	25.0	740.0	730.0	10	11/29/2012
DGWC-39	Downgradient	Overburden	1390303.6	2201540.1	759.89	757.0	21.2	746.2	736.2	10	11/6/2012
DGWC-40	Downgradient	Overburden	1390625.7	2201825.9	779.06	776.2	34.9	751.7	741.7	10	11/5/2012
DGWC-67	Downgradient	Overburden	1390953.8	2200830.7	766.70	767.0	56.3	720.7	710.7	10	3/14/2017
DGWC-68A	Downgradient	Overburden	1391301.2	2200734.9	765.33	765.4	29.8	746.0	736.0	10	4/20/2017
DGWC-69	Downgradient	Overburden	1391585.0	2200657.1	763.75	764.0	24.3	749.7	739.7	10	3/16/2017
DGWC-121	Downgradient	Overburden	1390739.7	2200849.4	764.16	764.5	50.0	724.8	714.8	10	3/22/2022
ASH POND 1 (AP-1) ASSESSMENT MONITORING WELL NETWORK											
B-62	Downgradient	Upper Bedrock	1389828.1	2201811.2	760.08	760.4	39.9	730.7	720.7	10	10/4/2016
B-100	Downgradient	Overburden	1390254.8	2202242.1	777.95	775.3	44.8	740.5	730.5	10	7/8/2020
B-105D	Downgradient	Upper Bedrock	1390634.5	2201831.9	779.01	776.0	70.0	716.0	706.0	10	10/19/2020
B-112D	Downgradient	Upper Bedrock	1391564.2	2200664.1	765.58	766.1	55.0	721.4	711.4	10	3/22/2021
B-113D	Downgradient	Upper Bedrock	1391264.6	2200719.2	758.22	758.8	85.0	684.4	674.4	10	3/30/2021

TABLE 2
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Georgia Power Company - Plant McDonough
Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) DETECTION MONITORING WELL NETWORK											
DGWA-53	Upgradient	Upper Bedrock	1393472.8	2201668.8	844.26	841.3	28.9	823.7	813.7	10	9/24/2016
DGWA-70A	Upgradient	Overburden	1390481.4	2200591.6	808.52	805.8	59.3	756.9	746.9	10	5/10/2017
DGWA-71	Upgradient	Overburden	1393963.3	2201714.8	863.84	861.2	43.8	827.8	817.8	10	2/28/2017
DGWC-2	Downgradient	Overburden/Upper Bedrock	1393958.0	2202119.5	850.88	848.3	49.0	809.6	799.6	10	10/2/2012
DGWC-4	Downgradient	Overburden	1394171.5	2202662.4	814.85	812.1	45.0	777.4	767.4	10	10/3/2012
DGWC-5	Downgradient	Overburden/Upper Bedrock	1394306.3	2202965.1	791.75	788.7	30.0	769.0	759.0	10	10/4/2012
DGWC-8	Downgradient	Overburden	1394322.2	2203882.1	826.38	824.1	49.1	785.4	775.4	10	10/10/2012
DGWC-9	Downgradient	Overburden	1394055.9	2204170.0	824.35	821.8	30.0	802.2	792.2	10	10/10/2012
DGWC-10	Downgradient	Overburden	1393818.3	2204201.1	823.55	820.9	45.4	785.9	775.9	10	10/11/2012
DGWC-11	Downgradient	Overburden	1393547.1	2204166.2	800.57	798.1	49.1	759.3	749.3	10	10/15/2012
DGWC-12	Downgradient	Overburden	1393149.4	2204128.3	773.86	771.2	25.1	756.5	746.5	10	10/15/2012
DGWC-13	Downgradient	Overburden	1392881.1	2204084.6	794.10	791.3	43.8	757.9	747.9	10	11/29/2012
DGWC-14	Downgradient	Overburden/Upper Bedrock	1392574.2	2204013.3	792.40	789.8	34.3	765.9	755.9	10	12/18/2012
DGWC-15	Downgradient	Overburden	1392544.1	2203679.0	824.50	821.5	67.1	764.8	754.8	10	11/29/2012
DGWC-17	Downgradient	Overburden	1392645.6	2203051.0	837.05	834.2	44.5	800.0	790.0	10	1/9/2013
DGWC-19	Downgradient	Overburden	1392342.6	2202601.0	825.46	822.9	39.8	793.5	783.5	10	3/12/2013
DGWC-20	Downgradient	Overburden	1392164.5	2202315.6	822.14	819.8	39.7	790.7	780.7	10	3/5/2013
DGWC-21	Downgradient	Overburden/Upper Bedrock	1392067.5	2202063.5	816.28	813.5	69.0	754.9	744.9	10	10/31/2012
DGWC-22	Downgradient	Upper Bedrock	1392126.3	2201791.9	816.59	813.7	60.0	764.0	754.0	10	10/25/2012
DGWC-23	Downgradient	Upper Bedrock	1392239.7	2201582.0	818.37	815.7	60.1	765.9	755.9	10	10/25/2012
DGWC-42	Downgradient	Overburden	1391327.8	2201870.2	804.68	802.0	50.4	762.1	752.1	10	11/12/2012
DGWC-47	Downgradient	Overburden/Upper Bedrock	1391553.8	2202610.5	797.45	794.3	28.8	775.9	765.9	10	6/23/2016
DGWC-48	Downgradient	Overburden/Upper Bedrock	1391314.6	2202290.2	788.33	785.2	30.0	765.6	755.6	10	6/22/2016

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Georgia Power Company - Plant McDonough
Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) ASSESSMENT MONITORING WELL NETWORK											
B-56	Downgradient	Overburden	1393957.9	2204187.8	823.59	821.0	45.0	786.4	776.4	10	10/3/2016
B-62	Downgradient	Upper Bedrock	1389828.1	2201811.2	760.08	760.4	39.9	730.7	720.7	10	10/4/2016
B-63	Downgradient	Overburden	1390999.1	2202978.1	777.10	777.3	46.0	741.8	731.8	10	10/6/2016
B-66	Downgradient	Overburden	1393858.2	2204277.5	815.90	813.3	55.3	768.3	758.3	10	11/16/2016
B-77	Downgradient	Overburden	1390948.7	2202942.0	776.86	777.1	42.0	745.1	735.1	10	9/17/2019
B-82	Downgradient	Overburden	1393750.0	2204258.1	810.07	807.5	45.0	773.0	763.0	10	9/21/2019
B-83	Downgradient	Overburden	1390735.5	2202695.6	776.98	777.1	48.6	738.5	728.5	10	9/30/2019
B-88	Downgradient	Overburden	1394401.1	2203738.3	820.07	817.0	72.0	755.0	745.0	10	11/15/2019
B-92	Downgradient	Overburden	1394392.7	2203026.7	785.08	785.3	24.6	770.7	760.7	10	12/11/2019
B-93	Downgradient	Overburden	1394348.7	2202946.7	789.07	789.2	28.9	770.3	760.3	10	12/12/2019
B-97	Downgradient	Overburden/Upper Bedrock	1394430.0	2203008.3	786.29	786.6	31.0	765.3	755.3	10	2/11/2020
B-98	Downgradient	Overburden	1394392.5	2202934.0	789.67	789.8	19.4	780.8	770.8	10	2/10/2020
B-100	Downgradient	Overburden	1390254.8	2202242.1	777.95	775.3	44.8	740.5	730.5	10	7/8/2020
B-101D	Downgradient	Overburden/Upper Bedrock	1394063.6	2204168.2	824.29	821.2	75.0	756.3	746.3	10	11/12/2020
B-102D	Downgradient	Upper Bedrock	1393828.4	2204200.4	823.42	820.6	85.0	746.2	736.2	10	11/10/2020
B-104D	Downgradient	Upper Bedrock	1391318.3	2202298.5	787.90	785.3	60.0	735.3	725.3	10	10/20/2020
B-106D	Downgradient	Upper Bedrock	1394327.1	2203869.2	826.21	823.5	80.0	754.1	744.1	10	11/13/2020
B-107D	Downgradient	Upper Bedrock	1392334.5	2202596.4	823.38	820.6	85.8	745.5	735.5	10	10/28/2020
B-108D	Downgradient	Upper Bedrock	1392156.1	2202312.5	821.13	818.4	80.0	749.4	739.4	10	10/27/2020
B-109D	Downgradient	Upper Bedrock	1393957.5	2202127.0	850.73	847.8	100.0	758.4	748.4	10	10/31/2020
B-111D	Downgradient	Upper Bedrock	1394303.4	2202956.4	791.87	789.1	85.0	714.9	704.9	10	11/3/2020
B-115D	Downgradient	Upper Bedrock	1391265.3	2202580.7	789.17	786.4	80.0	717.2	707.2	10	3/20/2021
B-120D	Downgradient	Upper Bedrock	1394047.2	2202436.4	836.42	834.0	70.0	775.0	765.0	10	3/6/2021
B-122D	Downgradient	Bedrock	1390992.8	2202975.4	777.03	777.3	85.0	707.5	697.5	10	3/24/2022

TABLE 2
SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION DATA
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
PIEZOMETERS											
B-3	Downgradient	Overburden/Upper Bedrock	1394045.1	2202411.5	837.78	835.0	37.0	808.3	798.3	10	10/3/2012
B-6	Downgradient	Overburden	1394419.5	2203266.5	789.47	786.5	35.4	761.5	751.5	10	10/9/2012
B-7	Downgradient	Overburden	1394374.6	2203596.1	809.16	806.1	25.2	791.3	781.3	10	10/9/2012
B-16	Downgradient	Overburden	1392595.1	2203315.4	826.47	823.6	43.7	790.2	780.2	10	12/19/2012
B-18	Downgradient	Overburden	1392521.0	2202875.5	826.56	823.9	32.6	801.5	791.5	10	1/10/2013
B-24	Downgradient	Upper Bedrock	1392479.9	2201450.0	822.11	819.3	79.1	751.0	741.0	10	10/24/2012
B-25	Downgradient	Upper Bedrock	1392813.3	2201502.7	836.54	833.5	54.8	789.1	779.1	10	10/24/2012
B-26	Downgradient	Upper Bedrock	1393105.6	2201550.4	853.60	850.6	49.3	811.7	801.7	10	10/23/2012
B-28	Downgradient	Overburden/Upper Bedrock	1391967.4	2201679.2	816.08	813.3	69.4	754.3	744.3	10	10/31/2012
B-29	Downgradient	Overburden	1391890.0	2201422.0	816.43	813.5	54.4	769.4	759.4	10	1/11/2013
B-31	Downgradient	Upper Bedrock	1392034.3	2200928.5	797.47	794.9	45.1	760.2	750.2	10	1/22/2013
B-41	Downgradient	Overburden	1390920.8	2201751.9	795.20	792.4	60.0	743.0	733.0	10	11/14/2012
B-50	Downgradient	Overburden	1391657.1	2201841.0	809.67	809.2	36.0	784.4	774.4	10	6/24/2016
B-51	Downgradient	Overburden	1390501.2	2200906.5	765.92	763.3	65.0	708.3	698.3	10	6/27/2016
B-52	Downgradient	Overburden	1392308.3	2201314.8	822.89	820.3	50.0	781.4	771.4	10	9/28/2016
B-54	Downgradient	Overburden/Upper Bedrock	1394423.5	2203140.7	785.46	782.6	34.2	758.8	748.8	10	9/26/2016
B-55	Downgradient	Overburden	1394142.6	2204147.9	825.12	822.9	52.0	781.9	771.9	10	9/22/2016
B-57	Downgradient	Upper Bedrock	1391396.3	2202736.9	789.04	786.0	50.5	746.0	736.0	10	9/24/2016
B-58	Downgradient	Overburden	1391125.7	2202426.5	788.17	785.2	45.0	750.7	740.7	10	9/23/2016
B-59	Downgradient	Overburden/Upper Bedrock	1394349.1	2203001.1	788.00	785.5	30.3	765.3	755.3	10	9/23/2016
B-60	Downgradient	Overburden	1391100.7	2202881.6	782.13	779.2	49.8	739.9	729.9	10	9/29/2016
B-61	Downgradient	Overburden	1390957.8	2202505.8	782.09	779.0	51.9	737.5	727.5	10	9/29/2016
B-64	Downgradient	Overburden	1394381.9	2203031.3	785.83	786.1	30.4	766.1	756.1	10	11/2/2016
B-65	Downgradient	Overburden/Upper Bedrock	1394381.2	2204050.8	821.95	822.3	45.4	787.9	777.9	10	11/15/2016

TABLE 2
SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION DATA
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
PIEZOMETERS											
B-68	Downgradient	Overburden	1391298.2	2200714.2	758.68	759.0	18.0	751.0	741.0	10	3/16/2017
B-72	Downgradient	Overburden	1391242.2	2200723.9	758.85	758.09	21.9	746.6	736.6	10	4/19/2017
B-73	Downgradient	Overburden	1391352.4	2200697.5	759.46	758.85	15.8	753.5	743.5	10	4/19/2017
B-74	Downgradient	Overburden	1391279.8	2200665.3	759.44	758.96	16.5	748.2	743.2	5	4/25/2017
B-76	Downgradient	Overburden	1390716.9	2202756.0	760.31	760.54	38.5	732.0	722.0	10	9/18/2019
B-78	Downgradient	Overburden/Upper Bedrock	1394328.2	2202958.2	790.75	788.0	30.0	768.0	758.5	10	9/22/2019
B-79	Downgradient	Overburden	1394458.6	2203223.0	788.66	785.9	34.9	761.0	751.5	10	9/21/2019
B-80	Downgradient	Overburden	1394372.6	2203533.9	804.47	801.8	30.0	782.0	772.5	10	9/20/2019
B-81	Downgradient	Overburden	1394364.9	2203741.1	820.56	817.7	50.0	778.5	768.5	10	9/22/2019
B-84	Downgradient	Overburden	1390411.9	2202241.9	776.24	776.3	49.1	737.5	727.5	10	10/1/2019
B-85	Downgradient	Overburden/Upper Bedrock	1394433.4	2203134.5	782.54	782.7	34.5	758.5	748.5	10	11/18/2019
B-86	Downgradient	Overburden/Upper Bedrock	1394480.0	2203206.6	784.29	784.6	34.1	760.5	750.5	10	11/18/2019
B-87	Downgradient	Overburden	1394401.9	2203531.3	803.37	800.4	42.0	768.7	758.7	10	11/17/2019
B-89	Downgradient	Upper Bedrock	1394398.4	2204049.4	822.36	822.6	49.5	783.1	773.1	10	11/19/2019
B-90	Downgradient	Overburden	1394501.0	2203212.6	784.00	784.2	33.4	760.8	750.8	10	12/10/2019
B-91	Downgradient	Overburden	1394447.1	2203123.9	782.98	783.1	34.6	758.5	748.5	10	12/11/2019
B-94	Downgradient	Overburden	1394402.0	2203513.7	801.74	799.2	45.2	764.6	754.6	10	1/23/2020
B-95	Downgradient	Overburden	1394518.6	2203167.7	784.00	784.3	33.3	761.3	751.3	10	2/11/2020
B-96	Downgradient	Overburden	1394478.7	2203099.3	784.92	785.3	33.1	762.2	752.2	10	2/10/2020
B-99	Downgradient	Overburden	1394524.2	2203084.5	782.39	782.6	12.3	775.3	770.3	5	7/7/2020

TABLE 2
SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION DATA
Georgia Power Company - Plant McDonough
Atlanta, Georgia

Well-ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation (feet NAVD 88)	Total Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screen Length (feet)	Date of Installation
PIEZOMETERS											
B-103D	Downgradient	Upper Bedrock	1391543.5	2202614.4	795.96	793.8	70.0	733.8	723.8	10	10/15/2020
B-110D	Downgradient	Upper Bedrock	1391294.4	2200736.0	764.61	764.7	65.0	711.7	701.7	10	11/17/2020
B-116D	Upgradient	Upper Bedrock	1390483.7	2200611.0	807.82	805.3	90.0	726.1	716.1	10	3/8/2021
B-117D	Upgradient	Upper Bedrock	1393963.8	2201727.3	863.82	861.2	75.0	796.5	786.5	10	3/17/2021
B-118	Upgradient	Upper Bedrock	1391219.3	2200449.7	807.70	805.0	75.0	740.2	730.2	10	3/9/2021
B-119D	Upgradient	Upper Bedrock	1391236.4	2200446.6	807.15	804.5	105	709.8	699.8	10	3/16/2021
B-123D	Downgradient	Bedrock	1391234.4	2202608.4	781.80	778.9	160.0	668.9	618.9	50	4/4/2022

Notes:

1. Coordinate System: NAD 1983 State Plane Georgia West (U.S. feet)
2. bgs - Below Ground Surface; NAD - North American Datum; NAVD - North American Vertical Datum

TABLE 3
PROPOSED ACM SUPPLEMENTAL DATA COLLECTION TASKS FOR JANUARY THROUGH JULY 2023
Georgia Power – Plant McDonough-Atkinson AP-2 and 3/4
Atlanta, Georgia

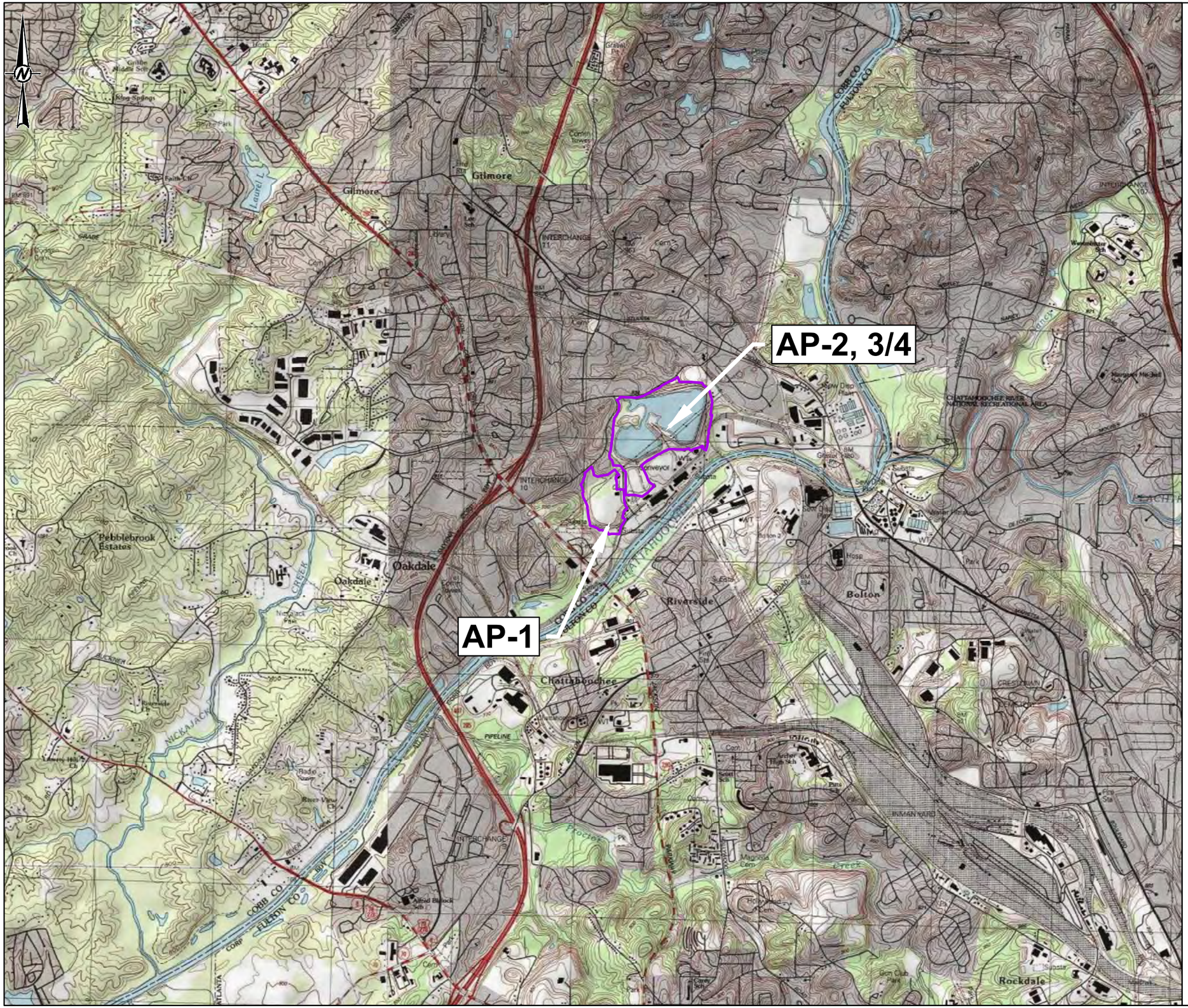
Data Collection Event	Applicable CMs	Applicability / Rationale	Field Component	Parameters of Interest (POI)
Groundwater Sampling	ISI MNA	(i) Evaluation of attenuation mechanisms and rates and aquifer capacity for attenuation. (ii) Continue sampling to provide sufficient data for statistical analyses at assessment wells. (iii) Determine the viability of in-situ injections for remedy selection.	Collect groundwater samples from existing well network currently sampled under the assessment monitoring program as well as additional site piezometers within migration pathway.	In addition to routine App III/IV parameters; analyzed for major cations/anions and other parameters for further characterization of groundwater and evaluation of plume stability as well as potential remedies.
Well Installation	ISI MNA	Continued delineation of current SSLs.	Install additional groundwater monitoring wells to evaluate vertical extent of SSLs.	Sample for Appendix III/IV, major ions to evaluate general geochemistry.
Soil Sampling	ISI MNA	Evaluate the effectiveness of different injection media for treatment of arsenic, beryllium, cobalt, lithium, and selenium.	No field component. Pending results of soil/rock samples from soil borings near B-120D.	Complete sequential extraction analyses for COCs for use in geochemical modeling.
Bench Scale Testing	ISI MNA	Evaluate the effectiveness of different injection media for treatment of arsenic and cobalt.	No field component	The final phase of bench scale testing which includes a design and implementation plan
Geochemical Modeling	ISI MNA	MNA as a component of Final Remedy Selection Support development of injection media for ISI.	No Field Component: Phase II & III geochemical modeling and assessment.	Geochemical modeling to be performed along various transects to evaluate the applicability of ISI and MNA. Evaluation of the consistently low pH in area (<5.0) where SSLs are observed to guide remedy decisions.

Applicable Corrective Measures Retained:

ISI - Geochemical Approaches (In-Situ Injection)

MNA - Monitored Natural Attenuation

FIGURES



REFERENCE

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

0 0.5 1

1 INCH=0.5 MILES

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

PROJECT
SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
SITE LOCATION MAP

CONSULTANT

YYYY-MM-DD	2019-1-31
PREPARED	SEB
DESIGN	SEB
CHECKED	DP
REVIEWED/APPROVED	RPK

PROJECT No. 166849618

Rev. 0

FIGURE 1

LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELLS
- PIEZOMETER
- TEMPORARY AEM WELL
- SURFACE WATER MONITORING LOCATION
- STAFF GUAGE
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

REFERENCE

1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND AUGUST 31, 2022 PROVIDED BY GPC.

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

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

0 600 1,200

1 IN= 600 FT

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

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

Georgia Power

PROJECT
SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
MONITORING WELL, PIEZOMETER AND SURFACE WATER LOCATION MAP

CONSULTANT

wsp

YYYY-MM-DD	2022-07-11
PREPARED	SEB
DESIGN	DLP
CHECKED	DP/RPK
REVIEWED/APPROVED	RPK

PROJECT No. 166849621

Rev. 0

FIGURE **2**

LEGEND

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

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED SEPTEMBER 6, 2022 BY WSP GOLDER.

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

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

5. NM = NOT MEASURED.

REFERENCE

1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND AUGUST 31, 2022 PROVIDED BY GPC.

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

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

0 600 1,200

1 IN= 600 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

PROJECT
SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

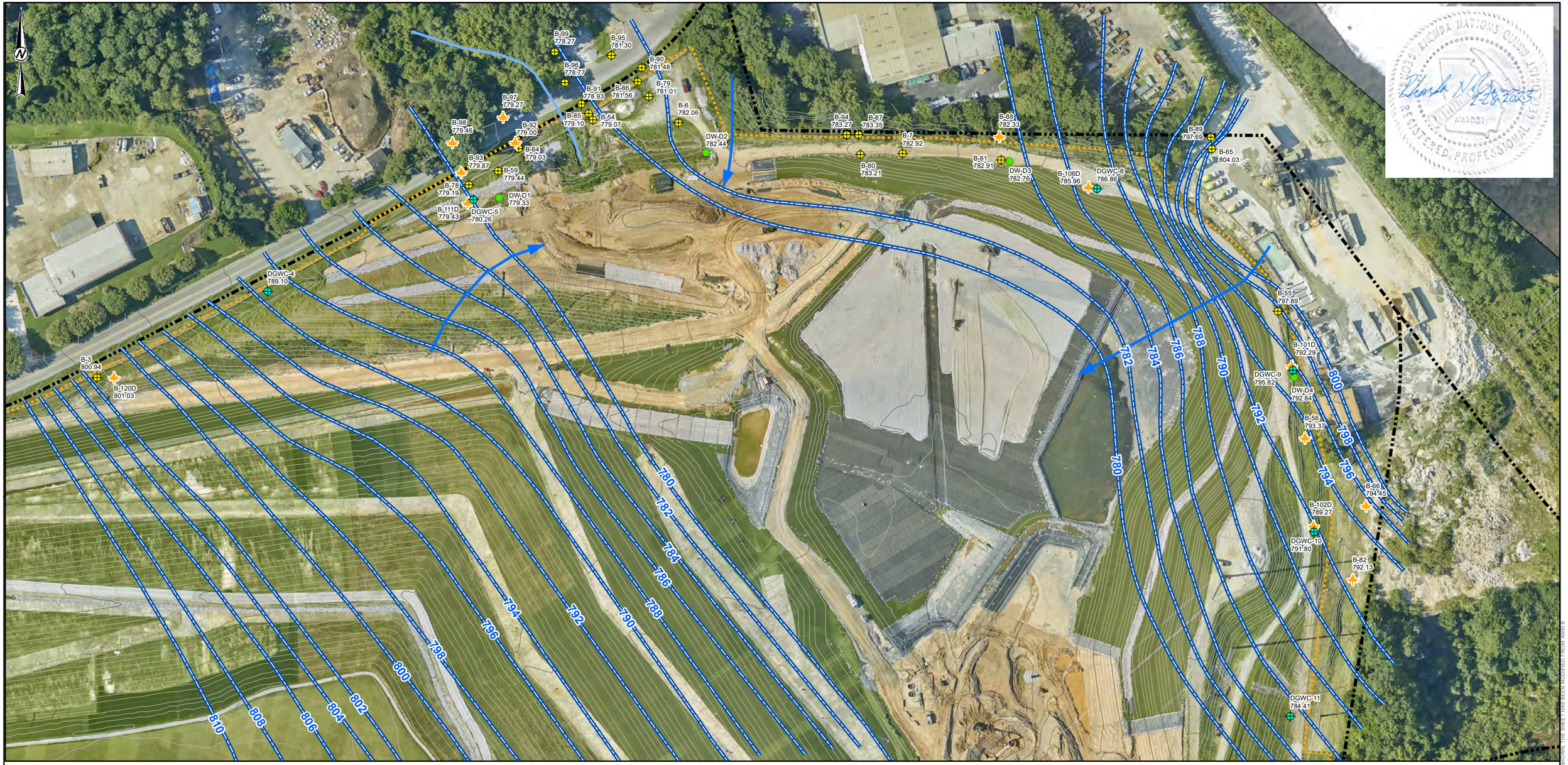
TITLE
SITE POTENTIOMETRIC MAP – SEPTEMBER 6, 2022

CONSULTANT

YYYY-MM-DD	2022-10-07
PREPARED	SEB
DESIGN	SEB
CHECKED	DLP
REVIEWED/APPROVED	RPK

PROJECT No. 166849622 | Rev. 0 | FIGURE 3

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



LEGEND

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

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED SEPTEMBER 6, 2022 BY WSP GOLDER.
3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM (FT NAVD88).
4. WELLS AND PIEZOMETERS THAT CONTAIN A "D" DESIGNATION FOLLOWING THE NUMBER ARE DEEP WELLS AND ELEVATIONS ARE NOT USED FOR CONTOURING.

REFERENCE

1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND AUGUST 31, 2022 PROVIDED BY GPC.
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021 AND MAY 2021.

0 140 280
1"=140 FT FEET

CLIENT
GEORGIA POWER COMPANY PLANT MCDONOUGH-ATKINSON

PROJECT
SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
(INSET) SITE POTENTIOMETRIC MAP
SEPTEMBER 6, 2022

CONSULTANT

YYYY-MM-DD	2022-10-25
PREPARED	SEB
DESIGN	SEB
CHECKED	DLP
REVIEW/APPROVED	RPK

PROJECT NO. 166849622 | CONTROL | REV. 0 | FIGURE **3A**

AP-2, 3/4

B-97 <0.0022
B-99
B-91
B-95
B-90
B-92 <0.0022
B-96
B-85
B-98 <0.0022
B-59
B-86
B-87
B-7
B-93 <0.0022
B-79
B-94
B-88 <0.0022
B-89
B-78
B-64
B-54
B-6
DW-D2
B-80
B-81
B-106D <0.0022
B-65
B-111D <0.0022
DW-D1
DW-D3
DGWC-8 <0.0022
DGWC-5 0.0038 J
DGWC-4 <0.0022
B-120D <0.0022
B-3
B-55
B-101D <0.0022
DGWC-9 0.016
DW-D4
B-56 <0.0022
DGWA-71 <0.0022
B-117D <0.0022
DGWC-2 <0.0022
B-109D <0.0022
B-102D <0.0022
B-66 <0.0022
DGWC-10 0.0024 J
B-82 <0.0022
DGWC-11 <0.0022
DGWA-53 0.0029 J
DGWC-12 <0.0022
B-26
DGWC-13 <0.0022
B-25
DGWC-17 <0.0022
B-16
DGWC-15 <0.0022
DGWC-14 <0.0022
B-18
B-24
DGWC-19 <0.0022
B-107D <0.0022
CR-0.5
B-52
DGWC-23 <0.0022
DGWC-22 <0.0022
DGWC-20 0.016
DGWC-21 <0.0022
B-108D <0.0022
B-28
B-29
B-50
DGWC-47 <0.0022
B-103D
B-57
DGWC-42 <0.0022
DGWC-48 <0.0022
B-104D <0.0022
CR-0.2

770
780
790
800
810
820
830

LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELLS
- PIEZOMETER
- SURFACE WATER MONITORING LOCATION
- TEMPORARY AEM WELL
- 0.01 ARSENIC GWPS ISOCONCENTRATION CONTOUR
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (SEPT 2022)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE

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

3. DATA SHOWN REPRESENT THE SEPTEMBER 2022 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.

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

5. POTENTIOMETRIC SURFACE DETERMINED USING SEPTEMBER 2022 WATER LEVELS.

Analyte	Units	GWPS
Arsenic	mg/L	0.01

REFERENCE

1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND AUGUST 31, 2022 PROVIDED BY GPC.

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

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

0 400 800

1 IN= 400 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

Georgia Power

PROJECT
SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
ARSENIC ISOCONCENTRATION CONTOUR MAP - SEPTEMBER 2022

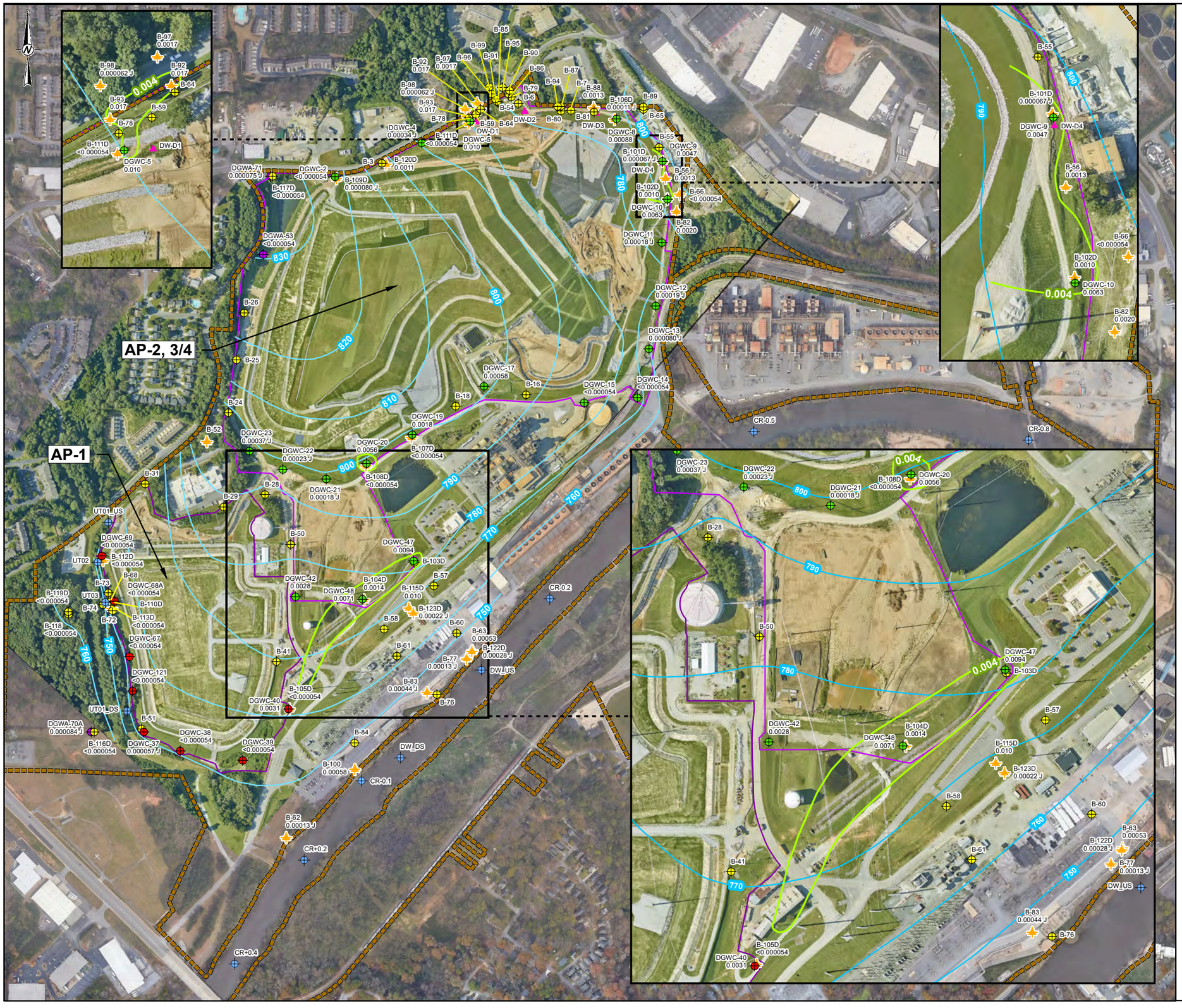
CONSULTANT

wsp

YYYY-MM-DD	2023-02-07
PREPARED	DJC
DESIGN	BAS
CHECKED	DP/RPK
REVIEWED/APPROVED	RPK

PROJECT No. 166849621
Rev. 0
FIGURE 4

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



LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELLS
- PIEZOMETER
- SURFACE WATER MONITORING LOCATION
- TEMPORARY AEM WELL
- 0.004 BERYLLIUM GWPS ISOCONCENTRATION CONTOUR
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (SEPT 2022)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE
2. GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD.
3. DATA SHOWN REPRESENT THE SEPTEMBER 2022 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.
4. DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.
5. POTENTIOMETRIC SURFACE DETERMINED USING SEPTEMBER 2022 WATER LEVELS.

Analyte	Units	GWPS
Beryllium	mg/L	0.004

REFERENCE

1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND AUGUST 31, 2022 PROVIDED BY GPC.
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021 AND MAY 2021.

0 600 1,200

1 IN= 600 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

PROJECT
SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
BERYLLIUM ISOCONCENTRATION CONTOUR MAP - SEPTEMBER 2022

CONSULTANT
wsp

YYYY-MM-DD	2023-02-15
PREPARED	SEB
DESIGN	BAS
CHECKED	DP/RPK
REVIEWED/APPROVED	RPK

PROJECT No. 166849621
Rev. 0
FIGURE 5

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

LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELLS
- PIEZOMETER
- SURFACE WATER MONITORING LOCATION
- TEMPORARY AEM WELL
- 0.0322 — COBALT GWPS ISOCONCENTRATION CONTOUR
- COBALT GWPS ISOCONCENTRATION CONTOUR (INFERRED)
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (SEPT 2022)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE
2. GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD. RSL = (FEDERAL REGIONAL SCREENING LEVEL)
3. DATA SHOWN REPRESENT THE SEPTEMBER 2022 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.
4. GWPS IS EQUAL TO SITE SPECIFIC BACKGROUND CONCENTRATION AS THERE IS NO MCL AND THE RSL IS BELOW SITE SPECIFIC BACKGROUND
5. DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.
6. POTENTIOMETRIC SURFACE DETERMINED USING SEPTEMBER 2022 WATER LEVELS.

Analyte	Units	GWPS
Cobalt	mg/L	0.0322

REFERENCE

1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND AUGUST 31, 2022 PROVIDED BY GPC.
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021 AND MAY 2021.

0 600 1,200

1 IN= 600 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

Georgia Power

PROJECT
SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
COBALT ISOCONCENTRATION CONTOUR MAP - SEPTEMBER 2022

CONSULTANT
wsp

YYYY-MM-DD	2023-02-15
PREPARED	SEB
DESIGN	BAS
CHECKED	DP/RPK
REVIEWED/APPROVED	RPK

PROJECT No. 166849621
Rev. 0
FIGURE 6

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

LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELLS
- PIEZOMETER
- SURFACE WATER MONITORING LOCATION
- TEMPORARY AEM WELL
- 0.04 LITHIUM GWPS ISOCONCENTRATION CONTOUR
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (SEPT 2022)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
2. GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD.
3. DATA SHOWN REPRESENT THE SEPTEMBER 2022 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.
4. DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.
5. POTENTIOMETRIC SURFACE DETERMINED USING SEPTEMBER 2022 WATER LEVELS.

Analyte	Units	GWPS
Lithium	mg/L	0.04

REFERENCE

1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND AUGUST 31, 2022 PROVIDED BY GPC.
2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY IN AUGUST 2020 WITH ADDITIONAL SURVEY PROVIDED IN JANUARY 2021 AND MAY 2021.

0 600 1,200

1 IN= 600 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

Georgia Power

PROJECT
SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
LITHIUM ISOCONCENTRATION CONTOUR MAP - SEPTEMBER 2022

CONSULTANT
wsp

YYYY-MM-DD	2023-02-15
PREPARED	SEB
DESIGN	BAS
CHECKED	DP/RPK
REVIEWED/APPROVED	RPK

PROJECT No. 166849621
Rev. 0
FIGURE 7

APPENDIX A

EDR GeoCheck® Report / Well Survey Report

Plant McDonough
5551 South Cobb Drive SE
Atlanta, GA 30339

Inquiry Number: 7235886.5s
January 26, 2023

The EDR GeoCheck® Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION **PAGE**

GEOCHECK ADDENDUM

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

GEOCHECK® - PHYSICAL SETTING SOURCE REPORT

TARGET PROPERTY ADDRESS

PLANT MCDONOUGH
5551 SOUTH COBB DRIVE SE
ATLANTA, GA 30339

TARGET PROPERTY COORDINATES

Latitude (North):	33.826929 - 33ˆ 49’ 36.94’’
Longitude (West):	84.477678 - 84ˆ 28’ 39.64’’
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	733436.4
UTM Y (Meters):	3745634.0
Elevation:	846 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	33084-G4 NORTHWEST ATLANTA, GA
Version Date:	1997

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

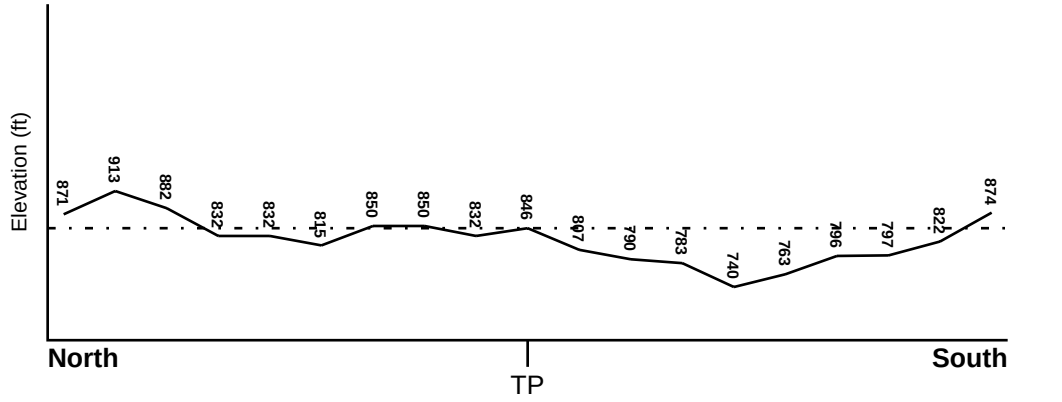
TOPOGRAPHIC INFORMATION

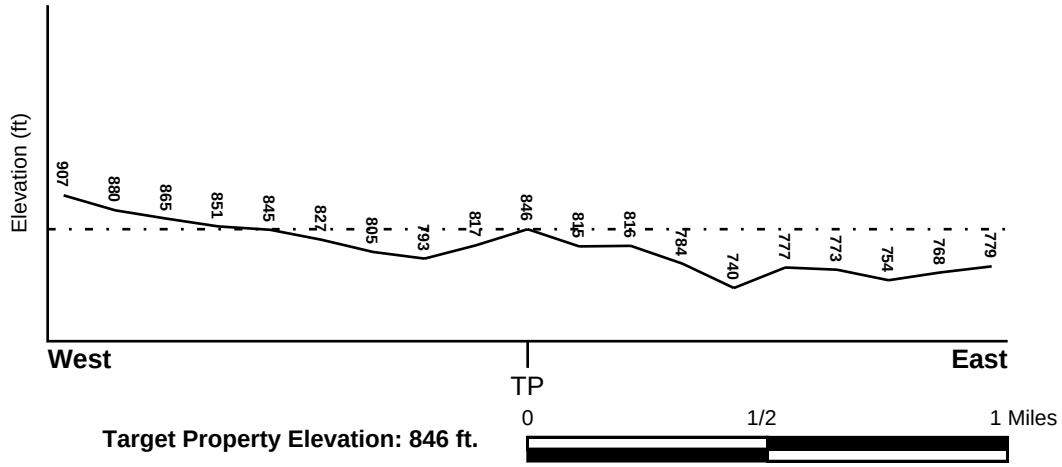
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





0 1/2 1 Miles

Target Property Elevation: 846 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
13067C0228H	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
13067C0207H	FEMA FIRM Flood data
13067C0226G	FEMA FIRM Flood data
13067C0227H	FEMA FIRM Flood data
13067C0209H	FEMA FIRM Flood data
13067C0229H	FEMA FIRM Flood data
13121C0229F	FEMA FIRM Flood data
13067C0236H	FEMA FIRM Flood data
13067C0217H	FEMA FIRM Flood data
13121C0237F	FEMA FIRM Flood data
13121C0236F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NORTHWEST ATLANTA	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
1	1/2 - 1 Mile SSW	SSW

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

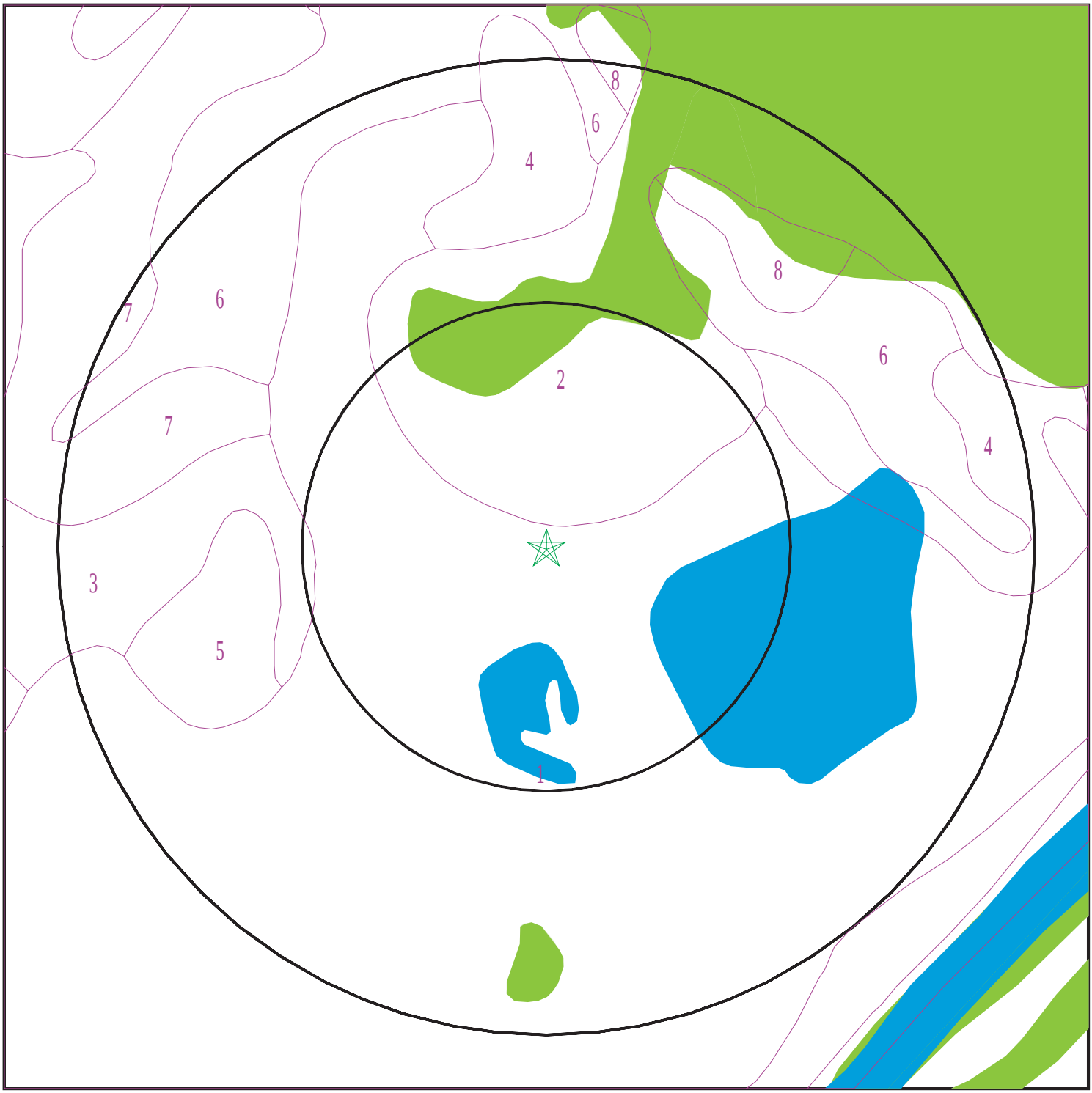
Era:	Paleozoic
System:	Pennsylvanian
Series:	Catacalastic rocks
Code:	cat *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Metamorphic Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 7235886.5s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Plant McDonough	CLIENT:	Golder Associates, Inc.
ADDRESS:	5551 South Cobb Drive SE Atlanta GA 30339	CONTACT:	Chris Tidwell
LAT/LONG:	33.826929 / 84.477678	INQUIRY #:	7235886.5s
		DATE:	January 26, 2023 4:20 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Urban land

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 200 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: Water

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: Madison

Soil Surface Texture: sandy clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	29 inches	35 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	0 inches	5 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	5 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	35 inches	66 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

Soil Map ID: 4

Soil Component Name: Madison

Soil Surface Texture: sandy clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	5 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	29 inches	35 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	35 inches	66 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

Soil Map ID: 5

Soil Component Name: Madison

Soil Surface Texture: sandy clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	29 inches	35 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	0 inches	5 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	5 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	35 inches	66 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

Soil Map ID: 6

Soil Component Name: Madison

Soil Surface Texture: clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	5 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	29 inches	35 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	35 inches	66 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

Soil Map ID: 7

Soil Component Name: Madison

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	5 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	29 inches	35 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	35 inches	66 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

Soil Map ID: 8

Soil Component Name: Madison

Soil Surface Texture: sandy clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	29 inches	35 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	0 inches	5 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	5 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	35 inches	66 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	2.000
Federal FRDS PWS	2.000
State Database	2.000

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS40000265121	1/2 - 1 Mile NNE
B4	USGS40000265094	1/2 - 1 Mile East
B7	USGS40000265087	1/2 - 1 Mile ESE
B9	USGS40000265091	1/2 - 1 Mile East
D20	USGS40000265168	1 - 2 Miles NNW
E21	USGS40000265154	1 - 2 Miles NE
F24	USGS40000265164	1 - 2 Miles NW
25	USGS40000265145	1 - 2 Miles WNW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

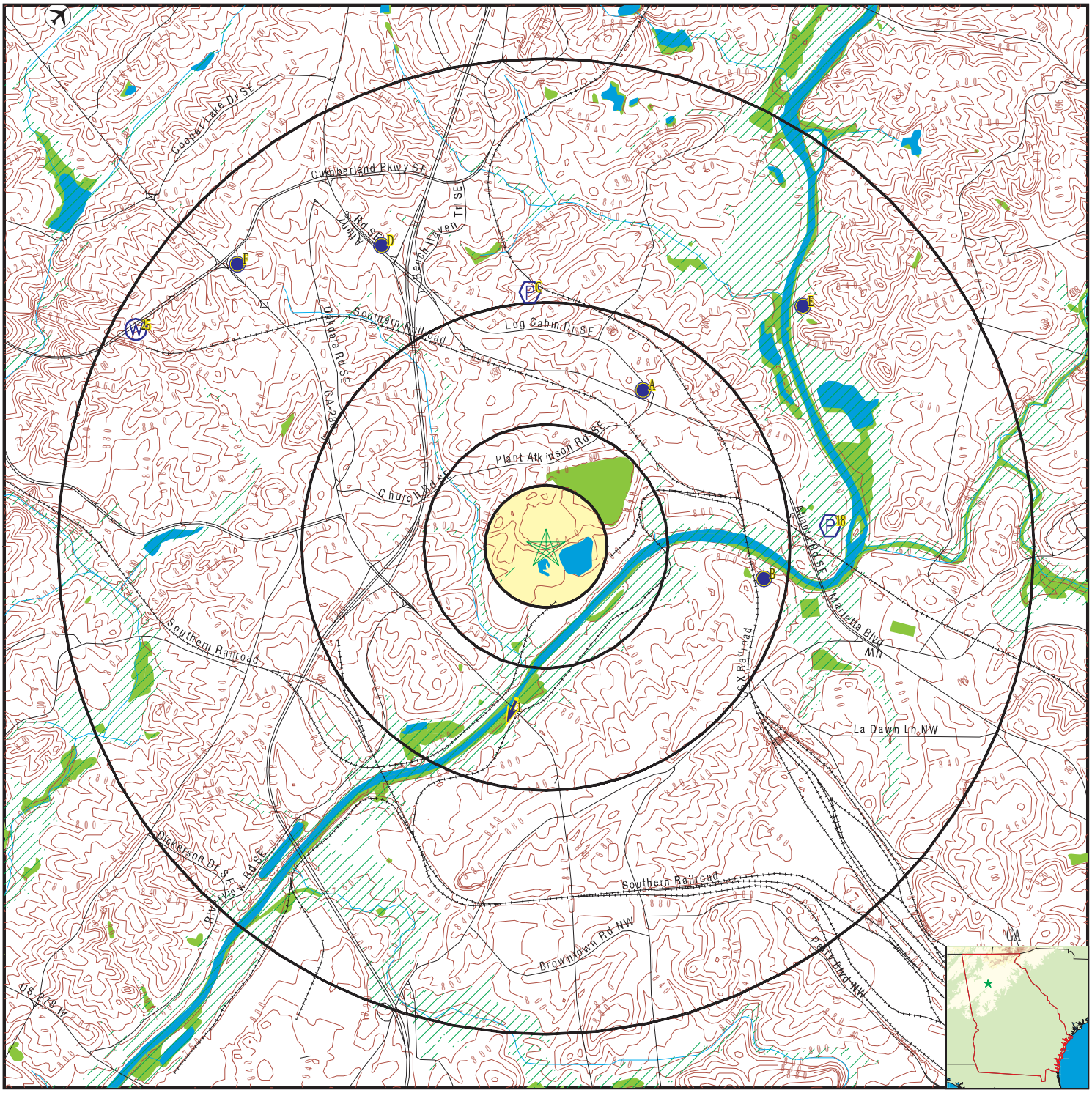
MAP ID	WELL ID	LOCATION FROM TP
C10	GA1210038	1 - 2 Miles North
C11	GA1210000	1 - 2 Miles North
C12	GA1210006	1 - 2 Miles North
C13	GA1210037	1 - 2 Miles North
C14	GA1210002	1 - 2 Miles North
C15	GA1210039	1 - 2 Miles North
C16	GA1210007	1 - 2 Miles North
C17	GA1210005	1 - 2 Miles North
18	GA1210001	1 - 2 Miles East

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A3	0000002231	1/2 - 1 Mile NNE
B5	0000004659	1/2 - 1 Mile East
B6	0000004656	1/2 - 1 Mile ESE
B8	0000004658	1/2 - 1 Mile East
D19	0000002233	1 - 2 Miles NNW
E22	0000004660	1 - 2 Miles NE
F23	0000002232	1 - 2 Miles NW

PHYSICAL SETTING SOURCE MAP - 7235886.5s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Wildlife Areas

SITE NAME:	Plant McDonough	CLIENT:	Golder Associates, Inc.
ADDRESS:	5551 South Cobb Drive SE Atlanta GA 30339	CONTACT:	Chris Tidwell
		INQUIRY #:	7235886.5s
LAT/LONG:	33.826929 / 84.477678	DATE:	January 26, 2023 4:20 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
SSW
1/2 - 1 Mile
Lower

Site ID:	0-601138
Groundwater Flow:	SSW
Shallow Water Depth:	18.82
Deep Water Depth:	19.04
Average Water Depth:	Not Reported
Date:	07/1991

AQUIFLOW **18783**

A2
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000265121**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	10EE02	Type:	Well
Description:	W.C. HALL	HUC:	03130002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation Type:	Crystalline Rocks	Aquifer Type:	Confined multiple aquifer
Construction Date:	1932	Well Depth:	79
Well Depth Units:	ft	Well Hole Depth:	79
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	49	Level reading date:	1992-06-16
Feet below surface:	29.34	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1991-10-31	Feet below surface:	29.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-05-23	Feet below surface:	30.74
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-10-29	Feet below surface:	31.71
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-05-30	Feet below surface:	29.21
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-10-27	Feet below surface:	32.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-11-28	Feet below surface:	34.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-06-29	Feet below surface:	33.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-10-26	Feet below surface:	32.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-11-26	Feet below surface:	32.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-07-28	Feet below surface:	32.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1985-05-31	Feet below surface:	34.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-05-31	Feet below surface:	26.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-11-01	Feet below surface:	30.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-31	Feet below surface:	29.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-10-26	Feet below surface:	32.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-05-25	Feet below surface:	31.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-22	Feet below surface:	32.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-21	Feet below surface:	31.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-13	Feet below surface:	30.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-29	Feet below surface:	27.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-25	Feet below surface:	30.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-23	Feet below surface:	31.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12-07	Feet below surface:	32.31
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-18	Feet below surface:	31.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-25	Feet below surface:	29.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-04-21	Feet below surface:	30.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-31	Feet below surface:	30.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-01	Feet below surface:	30.77
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-01-30	Feet below surface:	31.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-28	Feet below surface:	31.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-01	Feet below surface:	31.40
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1977-10-27	Feet below surface:	31.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-30	Feet below surface:	31.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-25	Feet below surface:	30.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-07-27	Feet below surface:	30.36
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-06-28	Feet below surface:	29.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-05-26	Feet below surface:	29.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-05-02	Feet below surface:	29.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-28	Feet below surface:	30.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-23	Feet below surface:	30.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-26	Feet below surface:	30.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-21	Feet below surface:	32.74
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-14	Feet below surface:	29.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-06-03	Feet below surface:	26.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-14	Feet below surface:	28.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-10-18	Feet below surface:	29.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-15	Feet below surface:	26.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-03-24	Feet below surface:	34
Feet to sea level:	Not Reported	Note:	Not Reported

A3
NNE
1/2 - 1 Mile
Higher

GA WELLS **0000002231**

County code:	067	Well num:	10EE02
Remarks:	W.C. HALL	Lat:	335010
Lon:	0842815	Latlon datum:	NAD27
Alt:	858.00	Alt datum:	NGVD29
Depth:	79	Depth to casing:	40

Casing dia:	6	Casing matl:	Not Reported
Depth to top:	40	Depth to bot:	85
Opening type:	X	Constr date:	1932
Discharge:	Not Reported	Prim use:	U
Aquifer code:	320CRSL	Edr id:	0000002231

B4
East
1/2 - 1 Mile
Lower

FED USGS **USGS40000265094**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	10EE26	Type:	Well
Description:	SONOCO PRODUCTS	HUC:	03130002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19660301
Well Depth:	500	Well Depth Units:	ft
Well Hole Depth:	500	Well Hole Depth Units:	ft

B5
East
1/2 - 1 Mile
Lower

GA WELLS **0000004659**

County code:	121	Well num:	10EE26
Remarks:	SONOCO PRODUCTS	Lat:	334933
Lon:	0842745	Latlon datum:	NAD27
Alt:	900.00	Alt datum:	NGVD29
Depth:	500	Depth to casing:	23.00
Casing dia:	8.00	Casing matl:	S
Depth to top:	23.00	Depth to bot:	500.00
Opening type:	X	Constr date:	196603
Discharge:	30.00	Prim use:	C
Aquifer code:	Not Reported	Edr id:	0000004659

B6
ESE
1/2 - 1 Mile
Lower

GA WELLS **0000004656**

County code:	121	Well num:	10EE27
Remarks:	SONOCO PRODUCTS	Lat:	334926
Lon:	0842745	Latlon datum:	NAD27
Alt:	900.00	Alt datum:	NGVD29
Depth:	500	Depth to casing:	23.00
Casing dia:	Not Reported	Casing matl:	S
Depth to top:	23.00	Depth to bot:	500.00
Opening type:	X	Constr date:	196604
Discharge:	32.00	Prim use:	C
Aquifer code:	Not Reported	Edr id:	0000004656

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

B7
ESE
1/2 - 1 Mile
Lower

FED USGS **USGS40000265087**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	10EE27	Type:	Well
Description:	SONOCO PRODUCTS	HUC:	03130002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19660401
Well Depth:	500	Well Depth Units:	ft
Well Hole Depth:	500	Well Hole Depth Units:	ft

B8
East
1/2 - 1 Mile
Lower

GA WELLS **0000004658**

County code:	121	Well num:	10EE25
Remarks:	SONOCO PRODUCTS	Lat:	334930
Lon:	0842742	Latlon datum:	NAD27
Alt:	900.00	Alt datum:	NGVD29
Depth:	400	Depth to casing:	33.00
Casing dia:	10.00	Casing matl:	S
Depth to top:	33.00	Depth to bot:	400.00
Opening type:	X	Constr date:	195801
Discharge:	144.00	Prim use:	C
Aquifer code:	Not Reported	Edr id:	0000004658

B9
East
1/2 - 1 Mile
Lower

FED USGS **USGS40000265091**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	10EE25	Type:	Well
Description:	SONOCO PRODUCTS	HUC:	03130002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19580101
Well Depth:	400	Well Depth Units:	ft
Well Hole Depth:	400	Well Hole Depth Units:	ft

C10
North
1 - 2 Miles
Lower

FRDS PWS **GA1210038**

Epa region:	04	State:	GA
Pwsid:	GA1210038		
Pwsname:	ATLANTA-FULTON CO WATER RES COMMISSION		
Cityserved:	Not Reported	Stateserved:	GA

Zipserved:	Not Reported	Fipscounty:	13121
Status:	Active	Retpopsrvd:	0
Pwssvcconn:	2	Psource longname:	Surface_water
Pwstype:	CWS	Owner:	Local_Govt
Contact:	CREWS, KATHY	Contactorgname:	CREWS, KATHY
Contactphone:	678-942-2791	Contactaddress1:	9750 SPRUILL RD.
Contactaddress2:	Not Reported	Contactcity:	ALPHARETTA
Contactstate:	GA	Contactzip:	30022
Pwsactivitycode:	A		

Pwsid:	GA1210038	Facid:	1034
Facname:	ATLANTA-FULTON CO WATER PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	gaseous chlorination, post
Factypecode:	TP		

Pwsid:	GA1210038	Facid:	1034
Facname:	ATLANTA-FULTON CO WATER PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	corrosion control	Trtprocess:	ph adjustment, post
Factypecode:	TP		

Pwsid:	GA1210038	Facid:	1034
Facname:	ATLANTA-FULTON CO WATER PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	particulate removal	Trtprocess:	filtration, rapid sand
Factypecode:	TP		

Pwsid:	GA1210038	Facid:	1034
Facname:	ATLANTA-FULTON CO WATER PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	gaseous chlorination, pre
Factypecode:	TP		

Pwsid:	GA1210038	Facid:	1034
Facname:	ATLANTA-FULTON CO WATER PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	particulate removal	Trtprocess:	ph adjustment, pre
Factypecode:	TP		

Pwsid:	GA1210038	Facid:	1034
Facname:	ATLANTA-FULTON CO WATER PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	particulate removal	Trtprocess:	rapid mix
Factypecode:	TP		

Pwsid:	GA1210038	Facid:	1034
Facname:	ATLANTA-FULTON CO WATER PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	particulate removal	Trtprocess:	coagulation
Factypecode:	TP		

Pwsid:	GA1210038	Facid:	1034
Facname:	ATLANTA-FULTON CO WATER PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	particulate removal	Trtprocess:	flocculation
Factypecode:	TP		

Pwsid:	GA1210038	Facid:	1034
Facname:	ATLANTA-FULTON CO WATER PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	particulate removal	Trtprocess:	sedimentation

Factypecode:	TP		
PWS ID:	GA1210038	PWS name:	ATLANTA-FULTON WATER RES COMM
Address:	9750 SPRUILL ROAD	Care of:	FULTON CO. WATER RESOURCES CM
City:	ALPHARETTA	State:	GA
Zip:	30022	Owner:	ATLANTA-FULTON WATER RES COMM
Source code:	Surface water	Population:	25
PWS ID:	GA1210038	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	County:	FULTON
Source:	Surface water	Treatment Objective:	DISINFECTION
Process:	GASEOUS CHLORINATION, POST		
Population:	0		
PWS ID:	GA1210038	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000025	System name:	ATLANTA-FULTON WATER RES COMM
System address:	ATLANTA-FULTON WATER RES COMM		
System address:	9750 SPRUILL ROAD	System city:	ALPHARETTA
System state:	GA	System zip:	30201
Population served:	Under 101 Persons	Treatment:	Treated
Latitude:	340431	Longitude:	0841739
Latitude:	335031	Longitude:	0842844
State:	GA	Latitude degrees:	33
Latitude minutes:	50	Latitude seconds:	31.0000
Longitude degrees:	84	Longitude minutes:	28
Longitude seconds:	44.0000		

C11
North
1 - 2 Miles
Lower

FRDS PWS GA1210000

Epa region:	04	State:	GA
Pwsid:	GA1210000	Pwsname:	ALPHARETTA
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13121
Status:	Closed	Retpopsrvd:	11700
Pwssvcconn:	3392	Psource longname:	Purch_surface_water
Pwstype:	CWS	Owner:	Local_Govt
Contact:	CHATHAM, EARL	Contactorgname:	Not Reported
Contactphone:	678-297-6200	Contactaddress1:	1790 HEMBREE ROAD
Contactaddress2:	Not Reported	Contactcity:	ALPHARETTA
Contactstate:	GA	Contactzip:	30004
Pwsactivitycode:	I		
PWS ID:	GA1210000	PWS name:	ALPHARETTA
Address:	1790 HEMBREE ROAD	Care of:	CITY OF ALPHARETTA
City:	ALPHARETTA	State:	GA
Zip:	30004	Owner:	ALPHARETTA
Source code:	Purchases surface water	Population:	8060
PWS ID:	GA1210000	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

PWS zip:	Not Reported	PWS ID:	GA1210000
Activity status:	Active	Date system activated:	Not Reported
Date system deactivated:	Not Reported	Retail population:	00006539
System name:	ALPHARETTA	System address:	CITY OF ALPHARETTA
System address:	TWO SOUTH MAIN STREET	System city:	ALPHARETTA
System state:	GA	System zip:	30201
Population served:	5,001 - 10,000 Persons	Treatment:	Treated
Latitude:	335031	Longitude:	0842844
Violation id:	10098	Orig code:	S
State:	GA	Violation Year:	1995
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/1995
Cmp edt:	Not Reported		
Violation id:	20303	Orig code:	S
State:	GA	Violation Year:	2003
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	24	Violation name:	Monitoring, Routine Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	04/01/2003
Cmp edt:	04/30/2003		
Violation id:	20404	Orig code:	S
State:	GA	Violation Year:	1998
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/1998
Cmp edt:	Not Reported		
Violation id:	20505	Orig code:	S
State:	GA	Violation Year:	2004
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2004
Cmp edt:	10/31/2004		
Violation id:	20605	Orig code:	S
State:	GA	Violation Year:	2004
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	11/01/2004
Cmp edt:	11/30/2004		
Violation id:	20705	Orig code:	S
State:	GA	Violation Year:	2004
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported

State mcl:	Not Reported	Cmp bdt:	10/01/2004
Cmp edt:	Not Reported		

Violation id:	20805	Orig code:	S
State:	GA	Violation Year:	2005
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2005
Cmp edt:	Not Reported		

Violation ID:	20303	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	05/29/2003
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	20303	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	05/29/2003
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

Violation ID:	20404	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	09/25/2002
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	20404	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	06/28/2004
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal

Violation ID:	20404	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	02/03/2002
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	20505	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	12/03/2004
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	20505	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	01/25/2005
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal

Violation ID:	20505	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	12/03/2004
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

Violation ID:	20605	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	12/07/2004
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	20605	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	12/07/2004
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

Violation ID:	20605	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	01/25/2005
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal

Violation ID:	20705	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	01/27/2005

Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	20705	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	05/05/2005
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	20705	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	05/26/2005
Enforcement Detail:	St Other	Enforcement Category:	Informal
Violation ID:	20705	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	01/27/2005
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	20805	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	08/24/2005
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	20805	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	07/01/2005
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving

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C12
North
1 - 2 Miles
Lower

FRDS PWS GA1210006

Epa region:	04	State:	GA
Pwsid:	GA1210006	Pwsname:	HAPEVILLE
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13121
Status:	Active	Retpopsrvd:	5385
Pwssvcconn:	2071	Psource longname:	Purch_surface_water
Pwstype:	CWS	Owner:	Local_Govt
Contact:	MARTIN, C C	Contactorgname:	MARTIN, C C
Contactphone:	404-669-2100	Contactaddress1:	POB 82311
Contactaddress2:	Not Reported	Contactcity:	HAPEVILLE
Contactstate:	GA	Contactzip:	30354-2311
Pwsactivitycode:	A		
PWS ID:	GA1210006	PWS name:	HAPEVILLE
Address:	3560 PERKINS STREET	Care of:	CITY OF HAPEVILLE
City:	HAPEVILLE	State:	GA
Zip:	30354	Owner:	HAPEVILLE
Source code:	Purchases surface water	Population:	5385
PWS ID:	GA1210006	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	HAPEVILLE
PWS type code:	C	Retail population served:	5385
Contact:	MARTIN, C C	Contact address:	POB 82311
Contact address:	HAPEVILLE	Contact city:	GA
Contact state:	30	Contact zip:	404-669-21
Contact telephone:	Not Reported		
PWS ID:	GA1210006	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00005483	System name:	HAPEVILLE
System address:	CITY OF HAPEVILLE	System address:	POB 82311

System city:	HAPEVILLE	System state:	GA
System zip:	303542311		
Population served:	5,001 - 10,000 Persons	Treatment:	Treated
Latitude:	335031	Longitude:	0842844

Violation id:	10101	Orig code:	S
State:	GA	Violation Year:	2000
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2000
Cmp edt:	Not Reported		

Violation id:	10402	Orig code:	S
State:	GA	Violation Year:	2001
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2001
Cmp edt:	Not Reported		

Violation id:	10603	Orig code:	S
State:	GA	Violation Year:	2002
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2002
Cmp edt:	Not Reported		

Violation id:	10704	Orig code:	S
State:	GA	Violation Year:	2003
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2003
Cmp edt:	Not Reported		

Violation id:	10805	Orig code:	S
State:	GA	Violation Year:	2004
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2004
Cmp edt:	Not Reported		

Violation id:	10907	Orig code:	S
State:	GA	Violation Year:	2006
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2006
Cmp edt:	Not Reported		

Violation id:	11008	Orig code:	S

State: GA
Contamination code: 7000
Violation code: 71
Rule code: 420
Violation measur: Not Reported
State mcl: Not Reported
Cmp edt: Not Reported
Violation Year: 2007
Contamination Name: Consumer Confidence Rule
Violation name: CCR Complete Failure to Report
Rule name: CCR
Unit of measure: Not Reported
Cmp bdt: 07/01/2007

Violation id: 11209
State: GA
Contamination code: 3100
Violation code: 22
Rule code: 110
Violation measur: Not Reported
State mcl: Not Reported
Cmp edt: 05/31/2009
Orig code: S
Violation Year: 2009
Contamination Name: Coliform (TCR)
Violation name: MCL, Monthly (TCR)
Rule name: TCR
Unit of measure: Not Reported
Cmp bdt: 05/01/2009

Violation id: 11612
State: GA
Contamination code: 3100
Violation code: 22
Rule code: 110
Violation measur: Not Reported
State mcl: Not Reported
Cmp edt: 11/30/2011
Orig code: S
Violation Year: 2011
Contamination Name: Coliform (TCR)
Violation name: MCL, Monthly (TCR)
Rule name: TCR
Unit of measure: Not Reported
Cmp bdt: 11/01/2011

Violation id: 11613
State: GA
Contamination code: 7000
Violation code: 71
Rule code: 420
Violation measur: Not Reported
State mcl: Not Reported
Cmp edt: Not Reported
Orig code: S
Violation Year: 2012
Contamination Name: Consumer Confidence Rule
Violation name: CCR Complete Failure to Report
Rule name: CCR
Unit of measure: Not Reported
Cmp bdt: 07/01/2012

Violation ID: 10101
Enforcemnt FY: 2001
Enforcement Detail: St Intentional no-action
Orig Code: S
Enforcement Action: 07/02/2001
Enforcement Category: Resolving

Violation ID: 10101
Enforcemnt FY: 2001
Enforcement Detail: St Compliance achieved
Orig Code: S
Enforcement Action: 08/31/2001
Enforcement Category: Resolving

Violation ID: 10402
Enforcemnt FY: 2002
Enforcement Detail: St Compliance achieved
Orig Code: S
Enforcement Action: 07/18/2002
Enforcement Category: Resolving

Violation ID: 10402
Enforcemnt FY: 2002
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal
Orig Code: S
Enforcement Action: 07/02/2002

Violation ID: 10603
Enforcemnt FY: 2003
Enforcement Detail: St Compliance achieved
Orig Code: S
Enforcement Action: 08/18/2003
Enforcement Category: Resolving

Violation ID: 10603
Enforcemnt FY: 2003
Enforcement Detail: State CCR Follow-up Notice
Enforcement Category: Informal
Orig Code: S
Enforcement Action: 08/11/2003

Violation ID: 10704
Orig Code: S

Enforcemnt FY: 2004
Enforcement Action: 07/01/2004
Enforcement Detail: St Intentional no-action
Enforcement Category: Resolving

Violation ID: 10704
Orig Code: S
Enforcemnt FY: 2004
Enforcement Action: 07/07/2004
Enforcement Detail: St Compliance achieved
Enforcement Category: Resolving

Violation ID: 10805
Orig Code: S
Enforcemnt FY: 2005
Enforcement Action: 08/01/2005
Enforcement Detail: State CCR Follow-up Notice
Enforcement Category: Informal

Violation ID: 10805
Orig Code: S
Enforcemnt FY: 2005
Enforcement Action: 07/01/2005
Enforcement Detail: St Intentional no-action
Enforcement Category: Resolving

Violation ID: 10805
Orig Code: S
Enforcemnt FY: 2005
Enforcement Action: 08/09/2005
Enforcement Detail: St Compliance achieved
Enforcement Category: Resolving

Violation ID: 10907
Orig Code: S
Enforcemnt FY: 2007
Enforcement Action: 09/01/2007
Enforcement Detail: State CCR Follow-up Notice
Enforcement Category: Informal

Violation ID: 10907
Orig Code: S
Enforcemnt FY: 2007
Enforcement Action: 09/11/2007
Enforcement Detail: St Compliance achieved
Enforcement Category: Resolving

Violation ID: 11008
Orig Code: S
Enforcemnt FY: 2008
Enforcement Action: 08/12/2008
Enforcement Detail: State CCR Follow-up Notice
Enforcement Category: Informal

Violation ID: 11008
Orig Code: S
Enforcemnt FY: 2008
Enforcement Action: 07/22/2008
Enforcement Detail: St Compliance achieved
Enforcement Category: Resolving

Violation ID: 11209
Orig Code: S
Enforcemnt FY: 2009
Enforcement Action: 06/03/2009
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 11209
Orig Code: S
Enforcemnt FY: 2009
Enforcement Action: 07/02/2009
Enforcement Detail: St Public Notif received
Enforcement Category: Informal

Violation ID: 11209
Orig Code: S
Enforcemnt FY: 2009
Enforcement Action: 06/03/2009
Enforcement Detail: St Public Notif requested
Enforcement Category: Informal

Violation ID: 11612
Orig Code: S
Enforcemnt FY: 2012
Enforcement Action: 01/30/2012
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 11612
Orig Code: S
Enforcemnt FY: 2012
Enforcement Action: 02/08/2012
Enforcement Detail: St Public Notif received
Enforcement Category: Informal

Violation ID: 11612
Orig Code: S
Enforcemnt FY: 2012
Enforcement Action: 01/30/2012

Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	11613	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	07/11/2012
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
PWS name:	HAPEVILLE	Population served:	5385
PWS type code:	C	Violation ID:	10101
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2001 0:00:00	Compliance end date:	8/31/2001 0:00:00
Enforcement date:	7/2/2001 0:00:00	Enforcement action:	State Intentional no-action
Violation measurement:	Not Reported		
PWS name:	HAPEVILLE	Population served:	5385
PWS type code:	C	Violation ID:	10101
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2001 0:00:00	Compliance end date:	8/31/2001 0:00:00
Enforcement date:	8/31/2001 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		
PWS name:	HAPEVILLE	Population served:	5385
PWS type code:	C	Violation ID:	10402
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2002 0:00:00	Compliance end date:	7/18/2002 0:00:00
Enforcement date:	7/18/2002 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		
PWS name:	HAPEVILLE	Population served:	5385
PWS type code:	C	Violation ID:	10402
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2002 0:00:00	Compliance end date:	7/18/2002 0:00:00
Enforcement date:	7/2/2002 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		
PWS name:	HAPEVILLE	Population served:	5385
PWS type code:	C	Violation ID:	10603
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2003 0:00:00	Compliance end date:	8/18/2003 0:00:00
Enforcement date:	8/11/2003 0:00:00	Enforcement action:	SII
Violation measurement:	Not Reported		
PWS name:	HAPEVILLE	Population served:	5385
PWS type code:	C	Violation ID:	10603
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2003 0:00:00	Compliance end date:	8/18/2003 0:00:00
Enforcement date:	8/18/2003 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		
PWS name:	HAPEVILLE	Population served:	5385
PWS type code:	C	Violation ID:	10704
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2004 0:00:00	Compliance end date:	7/7/2004 0:00:00
Enforcement date:	7/1/2004 0:00:00	Enforcement action:	State Intentional no-action
Violation measurement:	Not Reported		
PWS name:	HAPEVILLE	Population served:	5385
PWS type code:	C	Violation ID:	10704
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2004 0:00:00	Compliance end date:	7/7/2004 0:00:00
Enforcement date:	7/7/2004 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	HAPEVILLE	Population served:	5385
PWS type code:	C	Violation ID:	10805
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2005 0:00:00	Compliance end date:	8/9/2005 0:00:00
Enforcement date:	7/1/2005 0:00:00	Enforcement action:	State Intentional no-action
Violation measurement:	Not Reported		

PWS name:	HAPEVILLE	Population served:	5385
PWS type code:	C	Violation ID:	10805
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2005 0:00:00	Compliance end date:	8/9/2005 0:00:00
Enforcement date:	8/1/2005 0:00:00	Enforcement action:	SII
Violation measurement:	Not Reported		

PWS name:	HAPEVILLE	Population served:	5385
PWS type code:	C	Violation ID:	10805
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2005 0:00:00	Compliance end date:	8/9/2005 0:00:00
Enforcement date:	8/9/2005 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	HAPEVILLE	Population served:	5385
PWS type code:	C	Violation ID:	10907
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2007 0:00:00	Compliance end date:	9/11/2007 0:00:00
Enforcement date:	9/1/2007 0:00:00	Enforcement action:	SII
Violation measurement:	Not Reported		

PWS name:	HAPEVILLE	Population served:	5385
PWS type code:	C	Violation ID:	10907
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2007 0:00:00	Compliance end date:	9/11/2007 0:00:00
Enforcement date:	9/11/2007 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	HAPEVILLE	Population served:	5385
PWS type code:	C	Violation ID:	11008
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2008 0:00:00	Compliance end date:	7/22/2008 0:00:00
Enforcement date:	7/22/2008 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	HAPEVILLE	Population served:	5385
PWS type code:	C	Violation ID:	11008
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2008 0:00:00	Compliance end date:	7/22/2008 0:00:00
Enforcement date:	8/12/2008 0:00:00	Enforcement action:	SII
Violation measurement:	Not Reported		

C13
North
1 - 2 Miles
Lower

FRDS PWS GA1210037

Epa region:	04	State:	GA
Pwsid:	GA1210037	Pwsname:	PROVIDENCE PARK
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13121
Status:	Closed	Retpopsrvd:	400
Pwssvcconn:	1	Psource longname:	Groundwater
Pwstype:	TNCWS	Owner:	Local_Govt

Contact:	CULBRETH, JOHN	Contactorgname:	CULBRETH, JOHN
Contactphone:	404-730-6200	Contactaddress1:	141 PRIOR ST., SW SUITE 8054
Contactaddress2:	Not Reported	Contactcity:	ATLANTA
Contactstate:	GA	Contactzip:	30303
Pwsactivitycode:	I		

Pwsid:	GA1210037	Facid:	1033
Facname:	WELL #1 PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

PWS ID:	GA1210037	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS ID:	GA1210037
Activity status:	Active	Date system activated:	Not Reported
Date system deactivated:	Not Reported	Retail population:	00000400
System name:	PROVIDENCE PARK	System address:	PROVIDENCE PARK
System address:	13440 PROVIDENCE ROAD	System city:	ALPHARETTA
System state:	GA	System zip:	30201

Population served:	101 - 500 Persons	Treatment:	Treated

Latitude:	334456	Longitude:	0842317

Latitude:	335031	Longitude:	0842844

Violation id:	20203	Orig code:	S
State:	GA	Violation Year:	2003
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2003
Cmp edt:	03/31/2003		

Violation id:	20306	Orig code:	S
State:	GA	Violation Year:	2005
Contamination code:	1040	Contamination Name:	Nitrate
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	331	Rule name:	Nitrates
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2005
Cmp edt:	12/31/2005		

Violation id:	20407	Orig code:	S
State:	GA	Violation Year:	2006
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2006
Cmp edt:	12/31/2006		

Violation ID:	20203	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	04/16/2003
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

Violation ID:	20203	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	04/16/2003
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	20306	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	02/21/2006
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	20306	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	06/08/2006
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	20306	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	08/15/2006
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	20306	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	02/21/2006
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	20407	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	01/19/2007
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	20407	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	01/19/2007
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

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C14
North
1 - 2 Miles
Lower

FRDS PWS GA1210002

Epa region:	04	State:	GA
Pwsid:	GA1210002	Pwsname:	COLLEGE PARK
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13121
Status:	Active	Retpopsrvd:	20382
Pwssvcconn:	2620	Psource longname:	Purch_surface_water
Pwstype:	CWS	Owner:	Local_Govt
Contact:	LEE, PHIL	Contactorgname:	LEE, PHIL
Contactphone:	404-669-3757	Contactaddress1:	1886 W HARVARD AVE.
Contactaddress2:	Not Reported	Contactcity:	COLLEGE PARK
Contactstate:	GA	Contactzip:	30337
Pwsactivitycode:	A		
PWS ID:	GA1210002	PWS name:	COLLEGE PARK
Address:	1886 WEST HARVARD AVE.	Care of:	CITY OF COLLEGE PARK
City:	COLLEGE PARK	State:	GA
Zip:	30337	Owner:	COLLEGE PARK
Source code:	Purchases surface water	Population:	20645
PWS ID:	GA1210002	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	COLLEGE PARK
PWS type code:	C	Retail population served:	20382
Contact:	HOWARD, JR., JESSIE	Contact address:	POB 87137
Contact address:	COLLEGE PARK	Contact city:	GA
Contact state:	30	Contact zip:	404-669-37
Contact telephone:	Not Reported		
PWS ID:	GA1210002	Activity status:	Active

Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00020457	System name:	COLLEGE PARK
System address:	CITY OF COLLEGE PARK	System address:	1886 WEST HARVARD AVE.
System city:	COLLEGE PARK	System state:	GA
System zip:	30337		
Population served:	10,001 - 50,000 Persons	Treatment:	Treated
Latitude:	335031	Longitude:	0842844
Violation id:	10301	Orig code:	S
State:	GA	Violation Year:	2001
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2001
Cmp edt:	Not Reported		
Violation id:	11407	Orig code:	S
State:	GA	Violation Year:	2006
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2006
Cmp edt:	Not Reported		
Violation ID:	10301	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	07/02/2001
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving
Violation ID:	10301	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	08/10/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	11407	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	03/02/2007
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	11407	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	09/14/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	11407	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	03/02/2007
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
PWS name:	COLLEGE PARK	Population served:	20382
PWS type code:	C	Violation ID:	10301
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2001 0:00:00	Compliance end date:	8/10/2001 0:00:00
Enforcement date:	7/2/2001 0:00:00	Enforcement action:	State Intentional no-action
Violation measurement:	Not Reported		
PWS name:	COLLEGE PARK	Population served:	20382
PWS type code:	C	Violation ID:	10301
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2001 0:00:00	Compliance end date:	8/10/2001 0:00:00
Enforcement date:	8/10/2001 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	COLLEGE PARK	Population served:	20382
PWS type code:	C	Violation ID:	11407
Contaminant:	LEAD & COPPER RULE	Violation type:	Follow-up and Routine Tap Sampling
Compliance start date:	10/1/2006 0:00:00	Compliance end date:	12/31/2025 0:00:00
Enforcement date:	3/2/2007 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		

PWS name:	COLLEGE PARK	Population served:	20382
PWS type code:	C	Violation ID:	11407
Contaminant:	LEAD & COPPER RULE	Violation type:	Follow-up and Routine Tap Sampling
Compliance start date:	10/1/2006 0:00:00	Compliance end date:	12/31/2025 0:00:00
Enforcement date:	3/2/2007 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		

C15
North
1 - 2 Miles
Lower

FRDS PWS GA1210039

Epa region:	04	State:	GA
Pwsid:	GA1210039	Pwsname:	CHAMPIONS CLUB OF ATLANTA
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13121
Status:	Closed	Retpopsrvd:	255
Pwssvcconn:	2	Psource longname:	Groundwater
Pwstype:	NTNCWS	Owner:	Private
Contact:	MELNIK, STEVE	Contactorgname:	Not Reported
Contactphone:	904-356-1000	Contactaddress1:	111 RIVERSIDE AVE., SUITE 330
Contactaddress2:	Not Reported	Contactcity:	JACKSONVILLE
Contactstate:	FL	Contactzip:	33202
Pwsactivitycode:	I		

Pwsid:	GA1210039	Facid:	1035
Facname:	WELL #1 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

PWS ID:	GA1210039	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS ID:	GA1210039
Activity status:	Active	Date system activated:	Not Reported
Date system deactivated:	Not Reported	Retail population:	00000025
System name:	CHAMPIONS CLUB-HOPEWELL DOWNS		
System address:	CHAMPIONS CLUB-HOPEWELL DOWNS		
System address:	15135 HOPEWELL ROAD	System city:	ALPHARETTA
System state:	GA	System zip:	30201

Population served:	101 - 500 Persons	Treatment:	Treated

Latitude:	340431	Longitude:	0841739

Latitude:	335031	Longitude:	0842844

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID:	9200001	Violation source ID:	Not Reported
PWS telephone:	Not Reported	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Routine Major (TCR)		
Violation start date:	010192	Violation end date:	033192
Violation period (months):	003	Violation awareness date:	Not Reported

Major violator:	Yes	Maximum contaminant level:	Not Reported
Number of required samples:	Not Reported	Number of samples taken:	Not Reported
Analysis method:	Not Reported	Analysis result:	Not Reported

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID:	9200002	Violation source ID:	Not Reported
PWS telephone:	Not Reported	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Routine Major (TCR)		
Violation start date:	040192	Violation end date:	063092
Violation period (months):	003	Violation awareness date:	Not Reported
Major violator:	Yes	Maximum contaminant level:	Not Reported
Number of required samples:	Not Reported	Number of samples taken:	Not Reported
Analysis method:	Not Reported	Analysis result:	Not Reported

C16
North
1 - 2 Miles
Lower

FRDS PWS GA1210007

Epa region:	04	State:	GA
Pwsid:	GA1210007	Pwsname:	MOUNTAIN PARK
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13121
Status:	Active	Retpopsrvd:	798
Pwssvcconn:	307	Psource longname:	Purch_surface_water
Pwstype:	CWS	Owner:	Local_Govt
Contact:	SCHMIDT, BILL	Contactorgname:	SCHMIDT, BILL
Contactphone:	770-993-4231	Contactaddress1:	118 LAKE SHORE DRIVE
Contactaddress2:	Not Reported	Contactcity:	MOUNTAIN PARK
Contactstate:	GA	Contactzip:	30075
Pwsactivitycode:	A		

PWS ID:	GA1210007	PWS name:	MOUNTAIN PARK
Address:	100 MOUNTAIN PARK ROAD	Care of:	CITY OF MOUNTAIN PARK
City:	ROSWELL	State:	GA
Zip:	30075	Owner:	MOUNTAIN PARK
Source code:	Purchases surface water	Population:	679

PWS ID:	GA1210007	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	MOUNTAIN PARK
PWS type code:	C	Retail population served:	798
Contact:	SCHMIDT, BILL	Contact address:	118 LAKE SHORE DRIVE
Contact address:	MOUNTAIN PARK	Contact city:	GA
Contact state:	30	Contact zip:	770-993-42
Contact telephone:	Not Reported		

PWS ID:	GA1210007	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000679	System name:	MOUNTAIN PARK
System address:	CITY OF MOUNTAIN PARK	System address:	100 MOUNTAIN PARK ROAD
System city:	ROSWELL	System state:	GA
System zip:	30075		

Population served:	501 - 1,000 Persons	Treatment:	Treated
Latitude:	335031	Longitude:	0842844
Violation id:	1005	Orig code:	S

State:	GA	Violation Year:	2004
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2004
Cmp edt:	Not Reported		

Violation id:	1107	Orig code:	S
State:	GA	Violation Year:	2006
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2006
Cmp edt:	Not Reported		

Violation id:	1408	Orig code:	S
State:	GA	Violation Year:	2007
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2007
Cmp edt:	Not Reported		

Violation id:	1613	Orig code:	S
State:	GA	Violation Year:	2012
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2012
Cmp edt:	Not Reported		

Violation id:	1614	Orig code:	S
State:	GA	Violation Year:	2013
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2013
Cmp edt:	Not Reported		

Violation id:	201	Orig code:	S
State:	GA	Violation Year:	2000
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2000
Cmp edt:	Not Reported		

Violation id:	302	Orig code:	S
State:	GA	Violation Year:	2001
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2001
Cmp edt:	Not Reported		

Violation id:	603	Orig code:	S
State:	GA	Violation Year:	2002
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2002
Cmp edt:	Not Reported		

Violation id:	804	Orig code:	S
State:	GA	Violation Year:	2003
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2003
Cmp edt:	Not Reported		

Violation id:	905	Orig code:	S
State:	GA	Violation Year:	2005
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	26	Violation name:	Monitoring, Repeat Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2005
Cmp edt:	06/30/2005		

Violation ID:	1005	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	08/29/2005
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	1005	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	08/01/2005
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		

Violation ID:	1107	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	09/10/2008
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	1107	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	10/05/2007
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		

Violation ID:	1107	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	09/01/2007
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		

Violation ID:	1408	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	08/12/2008
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		

Violation ID:	1408	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	09/10/2008
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	1613	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	08/27/2012
Enforcement Detail:	State CCR Follow-up Notice		

Enforcement Category: Informal

Violation ID: 1613 Orig Code: S
Enforcemnt FY: 2013 Enforcement Action: 10/18/2012
Enforcement Detail: St Compliance achieved Enforcement Category: Resolving

Violation ID: 1614 Orig Code: S
Enforcemnt FY: 2013 Enforcement Action: 08/27/2013
Enforcement Detail: St Compliance achieved Enforcement Category: Resolving

Violation ID: 1614 Orig Code: S
Enforcemnt FY: 2013 Enforcement Action: 07/02/2013
Enforcement Detail: State CCR Follow-up Notice
Enforcement Category: Informal

Violation ID: 201 Orig Code: S
Enforcemnt FY: 2001 Enforcement Action: 07/02/2001
Enforcement Detail: St Intentional no-action Enforcement Category: Resolving

Violation ID: 201 Orig Code: S
Enforcemnt FY: 2001 Enforcement Action: 09/07/2001
Enforcement Detail: St Compliance achieved Enforcement Category: Resolving

Violation ID: 302 Orig Code: S
Enforcemnt FY: 2002 Enforcement Action: 07/23/2002
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 302 Orig Code: S
Enforcemnt FY: 2002 Enforcement Action: 08/08/2002
Enforcement Detail: St Compliance achieved Enforcement Category: Resolving

Violation ID: 603 Orig Code: S
Enforcemnt FY: 2003 Enforcement Action: 08/11/2003
Enforcement Detail: State CCR Follow-up Notice
Enforcement Category: Informal

Violation ID: 603 Orig Code: S
Enforcemnt FY: 2003 Enforcement Action: 08/19/2003
Enforcement Detail: St Compliance achieved Enforcement Category: Resolving

Violation ID: 804 Orig Code: S
Enforcemnt FY: 2004 Enforcement Action: 09/08/2004
Enforcement Detail: St Compliance achieved Enforcement Category: Resolving

Violation ID: 804 Orig Code: S
Enforcemnt FY: 2004 Enforcement Action: 08/20/2004
Enforcement Detail: State CCR Follow-up Notice
Enforcement Category: Informal

Violation ID: 905 Orig Code: S
Enforcemnt FY: 2005 Enforcement Action: 07/21/2005
Enforcement Detail: St Public Notif requested Enforcement Category: Informal

Violation ID: 905 Orig Code: S
Enforcemnt FY: 2005 Enforcement Action: 07/21/2005
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

PWS name: MOUNTAIN PARK Population served: 798
PWS type code: C Violation ID: 1005
Contaminant: 7000 Violation type: 71

Compliance start date: 7/1/2005 0:00:00
Compliance end date: 8/29/2005 0:00:00
Enforcement date: 8/1/2005 0:00:00
Enforcement action: SII
Violation measurement: Not Reported

PWS name: MOUNTAIN PARK
Population served: 798
PWS type code: C
Violation ID: 1005
Contaminant: 7000
Violation type: 71
Compliance start date: 7/1/2005 0:00:00
Compliance end date: 8/29/2005 0:00:00
Enforcement date: 8/29/2005 0:00:00
Enforcement action: State Compliance Achieved
Violation measurement: Not Reported

PWS name: MOUNTAIN PARK
Population served: 798
PWS type code: C
Violation ID: 1107
Contaminant: 7000
Violation type: 71
Compliance start date: 7/1/2007 0:00:00
Compliance end date: 9/10/2008 0:00:00
Enforcement date: 10/5/2007 0:00:00
Enforcement action: SII
Violation measurement: Not Reported

PWS name: MOUNTAIN PARK
Population served: 798
PWS type code: C
Violation ID: 1107
Contaminant: 7000
Violation type: 71
Compliance start date: 7/1/2007 0:00:00
Compliance end date: 9/10/2008 0:00:00
Enforcement date: 9/1/2007 0:00:00
Enforcement action: SII
Violation measurement: Not Reported

PWS name: MOUNTAIN PARK
Population served: 798
PWS type code: C
Violation ID: 1107
Contaminant: 7000
Violation type: 71
Compliance start date: 7/1/2007 0:00:00
Compliance end date: 9/10/2008 0:00:00
Enforcement date: 9/10/2008 0:00:00
Enforcement action: State Compliance Achieved
Violation measurement: Not Reported

PWS name: MOUNTAIN PARK
Population served: 798
PWS type code: C
Violation ID: 1408
Contaminant: 7000
Violation type: 71
Compliance start date: 7/1/2008 0:00:00
Compliance end date: 9/10/2008 0:00:00
Enforcement date: 8/12/2008 0:00:00
Enforcement action: SII
Violation measurement: Not Reported

PWS name: MOUNTAIN PARK
Population served: 798
PWS type code: C
Violation ID: 1408
Contaminant: 7000
Violation type: 71
Compliance start date: 7/1/2008 0:00:00
Compliance end date: 9/10/2008 0:00:00
Enforcement date: 9/10/2008 0:00:00
Enforcement action: State Compliance Achieved
Violation measurement: Not Reported

PWS name: MOUNTAIN PARK
Population served: 798
PWS type code: C
Violation ID: 201
Contaminant: 7000
Violation type: 71
Compliance start date: 7/1/2001 0:00:00
Compliance end date: 9/7/2001 0:00:00
Enforcement date: 7/2/2001 0:00:00
Enforcement action: State Intentional no-action
Violation measurement: Not Reported

PWS name: MOUNTAIN PARK
Population served: 798
PWS type code: C
Violation ID: 201
Contaminant: 7000
Violation type: 71
Compliance start date: 7/1/2001 0:00:00
Compliance end date: 9/7/2001 0:00:00
Enforcement date: 9/7/2001 0:00:00
Enforcement action: State Compliance Achieved
Violation measurement: Not Reported

PWS name: MOUNTAIN PARK
Population served: 798
PWS type code: C
Violation ID: 302

Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2002 0:00:00	Compliance end date:	8/8/2002 0:00:00
Enforcement date:	7/23/2002 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		

PWS name:	MOUNTAIN PARK	Population served:	798
PWS type code:	C	Violation ID:	302
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2002 0:00:00	Compliance end date:	8/8/2002 0:00:00
Enforcement date:	8/8/2002 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	MOUNTAIN PARK	Population served:	798
PWS type code:	C	Violation ID:	603
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2003 0:00:00	Compliance end date:	8/19/2003 0:00:00
Enforcement date:	8/11/2003 0:00:00	Enforcement action:	SII
Violation measurement:	Not Reported		

PWS name:	MOUNTAIN PARK	Population served:	798
PWS type code:	C	Violation ID:	603
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2003 0:00:00	Compliance end date:	8/19/2003 0:00:00
Enforcement date:	8/19/2003 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	MOUNTAIN PARK	Population served:	798
PWS type code:	C	Violation ID:	804
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2004 0:00:00	Compliance end date:	9/8/2004 0:00:00
Enforcement date:	8/20/2004 0:00:00	Enforcement action:	SII
Violation measurement:	Not Reported		

PWS name:	MOUNTAIN PARK	Population served:	798
PWS type code:	C	Violation ID:	804
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2004 0:00:00	Compliance end date:	9/8/2004 0:00:00
Enforcement date:	9/8/2004 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	MOUNTAIN PARK	Population served:	798
PWS type code:	C	Violation ID:	905
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Repeat Minor (TCR)
Compliance start date:	6/1/2005 0:00:00	Compliance end date:	6/30/2005 0:00:00
Enforcement date:	7/21/2005 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		

PWS name:	MOUNTAIN PARK	Population served:	798
PWS type code:	C	Violation ID:	905
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Repeat Minor (TCR)
Compliance start date:	6/1/2005 0:00:00	Compliance end date:	6/30/2005 0:00:00
Enforcement date:	7/21/2005 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		

C17
North
1 - 2 Miles
Lower

FRDS PWS GA1210005

Epa region:	04	State:	GA
Pwsid:	GA1210005	Pwsname:	NORTH FULTON COUNTY

Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13121
Status:	Active	Retpopsrvd:	172533
Pwssvcconn:	70291	Psource longname:	Purch_surface_water
Pwstype:	CWS	Owner:	Local_Govt
Contact:	PERSON, PATRICK	Contactorgname:	PERSON, PATRICK
Contactphone:	404-612-9429	Contactaddress1:	1030 MARIETTA HWY
Contactaddress2:	Not Reported	Contactcity:	ROSWELL
Contactstate:	GA	Contactzip:	30075
Pwsactivitycode:	A		

PWS ID:	GA1210005	PWS name:	NORTH FULTON COUNTY
Address:	141 PRYOR ST. SW SUITE 6001		
Care of:	DEPT. OF PUBLIC WORKS	City:	ATLANTA
State:	GA	Zip:	30303
Owner:	NORTH FULTON COUNTY	Source code:	Purchases surface water
Population:	106600		

PWS ID:	GA1210005	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	NORTH FULTON COUNTY
PWS type code:	C	Retail population served:	172533
Contact:	BAH, MARIE	Contact address:	1030 MARIETTA HWY.
Contact address:	ROSWELL	Contact city:	GA
Contact state:	30	Contact zip:	404-612-02
Contact telephone:	Not Reported		

PWS ID:	GA1210005	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00060000	System name:	NORTH FULTON COUNTY
System address:	NORTH FULTON WATER SYSTEM	System address:	1030 MARIETTA HIGHWAY
System city:	ROSWELL	System state:	GA
System zip:	300754732		

Population served:	50,001 - 75,000 Persons	Treatment:	Treated

Latitude:	335031	Longitude:	0842844

Latitude:	335031	Longitude:	0842844

Latitude:	335031	Longitude:	0842844

Latitude:	335031	Longitude:	0842844

Violation id:	10102	Orig code:	S
State:	GA	Violation Year:	2002
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2002
Cmp edt:	Not Reported		

Violation id:	10304	Orig code:	S
State:	GA	Violation Year:	2002
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2002
Cmp edt:	Not Reported		

Violation id:	10404	Orig code:	S
State:	GA	Violation Year:	2004
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2004
Cmp edt:	Not Reported		

Violation id:	10606	Orig code:	S
State:	GA	Violation Year:	2006
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2006
Cmp edt:	Not Reported		

Violation id:	10808	Orig code:	S
State:	GA	Violation Year:	2008
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2008
Cmp edt:	Not Reported		

Violation ID:	10102	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	07/18/2002
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	10102	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	07/23/2002
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	10304	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	02/03/2003
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	10304	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	09/22/2003
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	10404	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	07/02/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	10404	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	07/01/2004
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving

Violation ID:	10606	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	07/21/2006
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	10606	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	07/21/2006
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving

Violation ID:	10808	Orig Code:	S

Enforcemnt FY:	2008	Enforcement Action:	08/12/2008
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		

Violation ID:	10808	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	08/14/2008
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

PWS name:	NORTH FULTON COUNTY	Population served:	172533
PWS type code:	C	Violation ID:	10102
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2002 0:00:00	Compliance end date:	7/18/2002 0:00:00
Enforcement date:	7/18/2002 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	NORTH FULTON COUNTY	Population served:	172533
PWS type code:	C	Violation ID:	10102
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2002 0:00:00	Compliance end date:	7/18/2002 0:00:00
Enforcement date:	7/23/2002 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		

PWS name:	NORTH FULTON COUNTY	Population served:	172533
PWS type code:	C	Violation ID:	10304
Contaminant:	LEAD & COPPER RULE	Violation type:	Follow-up and Routine Tap Sampling
Compliance start date:	10/1/2002 0:00:00	Compliance end date:	9/22/2003 0:00:00
Enforcement date:	2/3/2003 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		

PWS name:	NORTH FULTON COUNTY	Population served:	172533
PWS type code:	C	Violation ID:	10304
Contaminant:	LEAD & COPPER RULE	Violation type:	Follow-up and Routine Tap Sampling
Compliance start date:	10/1/2002 0:00:00	Compliance end date:	9/22/2003 0:00:00
Enforcement date:	9/22/2003 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	NORTH FULTON COUNTY	Population served:	172533
PWS type code:	C	Violation ID:	10404
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2004 0:00:00	Compliance end date:	7/2/2004 0:00:00
Enforcement date:	7/1/2004 0:00:00	Enforcement action:	State Intentional no-action
Violation measurement:	Not Reported		

PWS name:	NORTH FULTON COUNTY	Population served:	172533
PWS type code:	C	Violation ID:	10404
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2004 0:00:00	Compliance end date:	7/2/2004 0:00:00
Enforcement date:	7/2/2004 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	NORTH FULTON COUNTY	Population served:	172533
PWS type code:	C	Violation ID:	10606
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2006 0:00:00	Compliance end date:	7/21/2006 0:00:00
Enforcement date:	7/21/2006 0:00:00	Enforcement action:	State Intentional no-action
Violation measurement:	Not Reported		

PWS name:	NORTH FULTON COUNTY	Population served:	172533
PWS type code:	C	Violation ID:	10606
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2006 0:00:00	Compliance end date:	7/21/2006 0:00:00
Enforcement date:	7/21/2006 0:00:00	Enforcement action:	State Compliance Achieved

Violation measurement:	Not Reported		
PWS name:	NORTH FULTON COUNTY	Population served:	172533
PWS type code:	C	Violation ID:	10808
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2008 0:00:00	Compliance end date:	8/14/2008 0:00:00
Enforcement date:	8/12/2008 0:00:00	Enforcement action:	SII
Violation measurement:	Not Reported		
PWS name:	NORTH FULTON COUNTY	Population served:	172533
PWS type code:	C	Violation ID:	10808
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2008 0:00:00	Compliance end date:	8/14/2008 0:00:00
Enforcement date:	8/14/2008 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

18
East
1 - 2 Miles
Lower

FRDS PWS GA1210001

Epa region:	04	State:	GA
Pwsid:	GA1210001	Pwsname:	ATLANTA
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13089
Status:	Active	Retpopsrvd:	650000
Pwssvcconn:	240780	Psource longname:	Surface_water
Pwstype:	CWS	Owner:	Local_Govt
Contact:	PARKER, RICHARD	Contactorgname:	PARKER, RICHARD
Contactphone:	404-235-2058	Contactaddress1:	651 14TH STREET, NW
Contactaddress2:	Not Reported	Contactcity:	ATLANTA
Contactstate:	GA	Contactzip:	30318
Pwsactivitycode:	A		
Pwsid:	GA1210001	Facid:	1027
Facname:	HEMPHILL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, pre	Factypecode:	TP
Pwsid:	GA1210001	Facid:	1027
Facname:	HEMPHILL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	particulate removal
Trtprocess:	rapid mix	Factypecode:	TP
Pwsid:	GA1210001	Facid:	1027
Facname:	HEMPHILL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	particulate removal
Trtprocess:	ph adjustment, pre	Factypecode:	TP
Pwsid:	GA1210001	Facid:	1027
Facname:	HEMPHILL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	particulate removal
Trtprocess:	coagulation	Factypecode:	TP
Pwsid:	GA1210001	Facid:	1027
Facname:	HEMPHILL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	particulate removal
Trtprocess:	flocculation	Factypecode:	TP
Pwsid:	GA1210001	Facid:	1027
Facname:	HEMPHILL PLANT	Factype:	Treatment_plant

Facactivitycode: A
Trtobjective: particulate removal
Trtprocess: sedimentation
Factypecode: TP

Pwsid: GA1210001
Facid: 1027
Facname: HEMPHILL PLANT
Factype: Treatment_plant
Facactivitycode: A
Trtobjective: particulate removal
Trtprocess: filtration, rapid sand
Factypecode: TP

Pwsid: GA1210001
Facid: 1027
Facname: HEMPHILL PLANT
Factype: Treatment_plant
Facactivitycode: A
Trtobjective: corrosion control
Trtprocess: ph adjustment, post
Factypecode: TP

Pwsid: GA1210001
Facid: 1027
Facname: HEMPHILL PLANT
Factype: Treatment_plant
Facactivitycode: A
Trtobjective: disinfection
Trtprocess: gaseous chlorination, post
Factypecode: TP

Pwsid: GA1210001
Facid: 2816
Facname: CHATTAHOOCHEE PLANT
Factype: Treatment_plant
Facactivitycode: A
Trtobjective: disinfection
Trtprocess: gaseous chlorination, pre
Factypecode: TP

Pwsid: GA1210001
Facid: 2816
Facname: CHATTAHOOCHEE PLANT
Factype: Treatment_plant
Facactivitycode: A
Trtobjective: particulate removal
Trtprocess: rapid mix
Factypecode: TP

Pwsid: GA1210001
Facid: 2816
Facname: CHATTAHOOCHEE PLANT
Factype: Treatment_plant
Facactivitycode: A
Trtobjective: particulate removal
Trtprocess: ph adjustment, pre
Factypecode: TP

Pwsid: GA1210001
Facid: 2816
Facname: CHATTAHOOCHEE PLANT
Factype: Treatment_plant
Facactivitycode: A
Trtobjective: particulate removal
Trtprocess: coagulation
Factypecode: TP

Pwsid: GA1210001
Facid: 2816
Facname: CHATTAHOOCHEE PLANT
Factype: Treatment_plant
Facactivitycode: A
Trtobjective: particulate removal
Trtprocess: flocculation
Factypecode: TP

Pwsid: GA1210001
Facid: 2816
Facname: CHATTAHOOCHEE PLANT
Factype: Treatment_plant
Facactivitycode: A
Trtobjective: particulate removal
Trtprocess: sedimentation
Factypecode: TP

Pwsid: GA1210001
Facid: 2816
Facname: CHATTAHOOCHEE PLANT
Factype: Treatment_plant
Facactivitycode: A
Trtobjective: particulate removal
Trtprocess: filtration, rapid sand
Factypecode: TP

Pwsid: GA1210001
Facid: 2816
Facname: CHATTAHOOCHEE PLANT
Factype: Treatment_plant
Facactivitycode: A
Trtobjective: corrosion control
Trtprocess: ph adjustment, post
Factypecode: TP

Pwsid: GA1210001
Facid: 2816
Facname: CHATTAHOOCHEE PLANT
Factype: Treatment_plant
Facactivitycode: A
Trtobjective: disinfection

Trtprocess:	gaseous chlorination, post		
Factypecode:	TP		
PWS ID:	GA1210001	PWS name:	ATLANTA
Address:	2528 CHATTAHOOCHEE CIR., NW		
Care of:	ATLANTA WATER DEPARTMENT	City:	ATLANTA
State:	GA	Zip:	30318
Owner:	ATLANTA	Source code:	Surface water
Population:	649836		
PWS ID:	GA1210001	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	ATLANTA
PWS type code:	C	Retail population served:	650000
Contact:	HEBBERD, CHRISTOPHER	Contact address:	651 14TH STREET
Contact address:	ATLANTA	Contact city:	GA
Contact state:	30	Contact zip:	404-602-44
Contact telephone:	Not Reported		
County:	FULTON	Source:	Surface water
Treatment Objective:	CORROSION CONTROL	Process:	PH ADJUSTMENT, POST
Population:	650000		
County:	FULTON	Source:	Surface water
Treatment Objective:	DISINFECTION	Process:	GASEOUS CHLORINATION, POST
Population:	650000		
County:	FULTON	Source:	Surface water
Treatment Objective:	DISINFECTION	Process:	GASEOUS CHLORINATION, PRE
Population:	650000		
County:	FULTON	Source:	Surface water
Treatment Objective:	PARTICULATE REMOVAL	Process:	COAGULATION
Population:	650000		
County:	FULTON	Source:	Surface water
Treatment Objective:	PARTICULATE REMOVAL	Process:	FILTRATION, RAPID SAND
Population:	650000		
County:	FULTON	Source:	Surface water
Treatment Objective:	PARTICULATE REMOVAL	Process:	FLOCCULATION
Population:	650000		
County:	FULTON	Source:	Surface water
Treatment Objective:	PARTICULATE REMOVAL	Process:	RAPID MIX
Population:	650000		
County:	FULTON	Source:	Surface water
Treatment Objective:	PARTICULATE REMOVAL	Process:	SEDIMENTATION
Population:	650000		
County:	FULTON	Source:	Surface water
Treatment Objective:	PARTICULATE REMOVAL	Process:	PH ADJUSTMENT, PRE
Population:	650000		
PWS ID:	GA1210001	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00649836	System name:	ATLANTA
System address:	ATLANTA WATER BUREAU	System address:	2541 CHATTAHOOCHEE CIRCLE, NW
System city:	ATLANTA	System state:	GA
System zip:	30318		

Population served:	over 100,000 Persons	Treatment:	Treated
Latitude:	334941	Longitude:	0842727
State:	GA	Latitude degrees:	33
Latitude minutes:	49	Latitude seconds:	41.0000
Longitude degrees:	84	Longitude minutes:	27
Longitude seconds:	27.0000		
Violation id:	10097	Orig code:	S
State:	GA	Violation Year:	1997
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/1997
Cmp edt:	Not Reported		
Violation id:	10502	Orig code:	S
State:	GA	Violation Year:	2002
Contamination code:	0300	Contamination Name:	IESWTR
Violation code:	38		
Violation name:	Monitoring, Turbidity (Enhanced SWTR)		
Rule code:	122	Rule name:	LT1 ESWTR
Violation measur:	0	Unit of measure:	Not Reported
State mcl:	0	Cmp bdt:	01/01/2002
Cmp edt:	01/31/2002		
Violation id:	11303	Orig code:	S
State:	GA	Violation Year:	2000
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2000
Cmp edt:	Not Reported		
Violation id:	11406	Orig code:	S
State:	GA	Violation Year:	2005
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2005
Cmp edt:	Not Reported		
Violation id:	11607	Orig code:	S
State:	GA	Violation Year:	2006
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2006
Cmp edt:	Not Reported		
Violation id:	11909	Orig code:	S
State:	GA	Violation Year:	2008
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2008

Cmp edt: Not Reported

Violation id: 12511 | Orig code: S
State: GA | Violation Year: 2010
Contamination code: 7000 | Contamination Name: Consumer Confidence Rule
Violation code: 71 | Violation name: CCR Complete Failure to Report
Rule code: 420 | Rule name: CCR
Violation measur: Not Reported | Unit of measure: Not Reported
State mcl: Not Reported | Cmp bdt: 07/01/2010
Cmp edt: Not Reported

Violation id: 12616 | Orig code: S
State: GA | Violation Year: 2013
Contamination code: 2950 | Contamination Name: TTHM
Violation code: 02 | Violation name: MCL, Average
Rule code: 220 | Rule name: St2 DBP
Violation measur: 0.081 | Unit of measure: MG/L
State mcl: 0.08 | Cmp bdt: 04/01/2013
Cmp edt: 06/30/2013

Violation id: 12617 | Orig code: S
State: GA | Violation Year: 2014
Contamination code: 2950 | Contamination Name: TTHM
Violation code: 02 | Violation name: MCL, Average
Rule code: 220 | Rule name: St2 DBP
Violation measur: 0.082 | Unit of measure: MG/L
State mcl: 0.08 | Cmp bdt: 01/01/2014
Cmp edt: 03/31/2014

Violation ID: 10502 | Orig Code: S
Enforcemnt FY: 2002 | Enforcement Action: 02/28/2002
Enforcement Detail: St Public Notif requested | Enforcement Category: Informal

Violation ID: 10502 | Orig Code: S
Enforcemnt FY: 2002 | Enforcement Action: 07/09/2002
Enforcement Detail: St Compliance achieved | Enforcement Category: Resolving

Violation ID: 10502 | Orig Code: S
Enforcemnt FY: 2002 | Enforcement Action: 07/09/2002
Enforcement Detail: St Public Notif received | Enforcement Category: Informal

Violation ID: 10502 | Orig Code: S
Enforcemnt FY: 2003 | Enforcement Action: 05/06/2003
Enforcement Detail: St BCA signed | Enforcement Category: Formal

Violation ID: 10502 | Orig Code: S
Enforcemnt FY: 2002 | Enforcement Action: 02/28/2002
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 11303 | Orig Code: S
Enforcemnt FY: 2001 | Enforcement Action: 09/03/2001
Enforcement Detail: St Compliance achieved | Enforcement Category: Resolving

Violation ID: 11406 | Orig Code: S
Enforcemnt FY: 2006 | Enforcement Action: 08/15/2006
Enforcement Detail: State CCR Follow-up Notice
Enforcement Category: Informal

Violation ID: 11406 | Orig Code: S
Enforcemnt FY: 2006 | Enforcement Action: 07/24/2006
Enforcement Detail: St Compliance achieved | Enforcement Category: Resolving

Violation ID:	11406	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	07/24/2006
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving
Violation ID:	11607	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	07/09/2007
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	11607	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	07/12/2007
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving
Violation ID:	11909	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	07/07/2009
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	12511	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	10/05/2011
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	12616	Orig Code:	S
Enforcemnt FY:	2013	Enforcement Action:	05/23/2013
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	12616	Orig Code:	S
Enforcemnt FY:	2013	Enforcement Action:	05/23/2013
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
PWS name:	ATLANTA	Population served:	650000
PWS type code:	C	Violation ID:	10502
Contaminant:	0300	Violation type:	38
Compliance start date:	1/1/2002 0:00:00	Compliance end date:	1/31/2002 0:00:00
Enforcement date:	2/28/2002 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	0		
PWS name:	ATLANTA	Population served:	650000
PWS type code:	C	Violation ID:	10502
Contaminant:	0300	Violation type:	38
Compliance start date:	1/1/2002 0:00:00	Compliance end date:	1/31/2002 0:00:00
Enforcement date:	2/28/2002 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	0		
PWS name:	ATLANTA	Population served:	650000
PWS type code:	C	Violation ID:	10502
Contaminant:	0300	Violation type:	38
Compliance start date:	1/1/2002 0:00:00	Compliance end date:	1/31/2002 0:00:00
Enforcement date:	5/6/2003 0:00:00	Enforcement action:	State BCA Signed
Violation measurement:	0		
PWS name:	ATLANTA	Population served:	650000
PWS type code:	C	Violation ID:	10502
Contaminant:	0300	Violation type:	38
Compliance start date:	1/1/2002 0:00:00	Compliance end date:	1/31/2002 0:00:00
Enforcement date:	7/9/2002 0:00:00	Enforcement action:	State Public Notif Received
Violation measurement:	0		
PWS name:	ATLANTA	Population served:	650000
PWS type code:	C	Violation ID:	10502
Contaminant:	0300	Violation type:	38
Compliance start date:	1/1/2002 0:00:00	Compliance end date:	1/31/2002 0:00:00
Enforcement date:	7/9/2002 0:00:00	Enforcement action:	State Compliance Achieved

Violation measurement: 0

PWS name: ATLANTA
PWS type code: C
Contaminant: LEAD & COPPER RULE
Compliance start date: 10/1/2000 0:00:00
Enforcement date: 9/3/2001 0:00:00
Violation measurement: Not Reported
Population served: 650000
Violation ID: 11303
Violation type: Follow-up and Routine Tap Sampling
Compliance end date: 9/3/2001 0:00:00
Enforcement action: State Compliance Achieved

PWS name: ATLANTA
PWS type code: C
Contaminant: 7000
Compliance start date: 7/1/2006 0:00:00
Enforcement date: 7/24/2006 0:00:00
Violation measurement: Not Reported
Population served: 650000
Violation ID: 11406
Violation type: 71
Compliance end date: 7/24/2006 0:00:00
Enforcement action: State Intentional no-action

PWS name: ATLANTA
PWS type code: C
Contaminant: 7000
Compliance start date: 7/1/2006 0:00:00
Enforcement date: 7/24/2006 0:00:00
Violation measurement: Not Reported
Population served: 650000
Violation ID: 11406
Violation type: 71
Compliance end date: 7/24/2006 0:00:00
Enforcement action: State Compliance Achieved

PWS name: ATLANTA
PWS type code: C
Contaminant: 7000
Compliance start date: 7/1/2006 0:00:00
Enforcement date: 8/15/2006 0:00:00
Violation measurement: Not Reported
Population served: 650000
Violation ID: 11406
Violation type: 71
Compliance end date: 7/24/2006 0:00:00
Enforcement action: SII

PWS name: ATLANTA
PWS type code: C
Contaminant: 7000
Compliance start date: 7/1/2007 0:00:00
Enforcement date: 7/12/2007 0:00:00
Violation measurement: Not Reported
Population served: 650000
Violation ID: 11607
Violation type: 71
Compliance end date: 7/9/2007 0:00:00
Enforcement action: State Intentional no-action

PWS name: ATLANTA
PWS type code: C
Contaminant: 7000
Compliance start date: 7/1/2007 0:00:00
Enforcement date: 7/9/2007 0:00:00
Violation measurement: Not Reported
Population served: 650000
Violation ID: 11607
Violation type: 71
Compliance end date: 7/9/2007 0:00:00
Enforcement action: State Compliance Achieved

D19
NNW
1 - 2 Miles
Higher

GA WELLS **0000002233**

County code: 067
Remarks: BP GAS STN S ATLANTA ROAD
Lon: 0842922
Alt: 930
Depth: 39
Casing dia: 2
Depth to top: 29
Opening type: P
Discharge: Not Reported
Aquifer code: 110SPRL
Well num: 10EE39
Lat: 335041
Latlon datum: NAD27
Alt datum: NGVD29
Depth to casing: 29
Casing matl: P
Depth to bot: 39
Constr date: 19900724
Prim use: U
Edr id: 0000002233

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D20
NNW
1 - 2 Miles
Higher

FED USGS **USGS40000265168**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	10EE39	Type:	Well
Description:	BP GAS STN S ATLANTA ROAD	HUC:	03130001
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation Type:	Saprolite	Aquifer Type:	Unconfined single aquifer
Construction Date:	19900724	Well Depth:	39
Well Depth Units:	ft	Well Hole Depth:	39.5
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1995-06-27
Feet below surface:	29.62	Feet to sea level:	Not Reported
Note:	Not Reported		

E21
NE
1 - 2 Miles
Lower

FED USGS **USGS40000265154**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	10EE29	Type:	Well
Description:	RICHARD L. AECK	HUC:	03130001
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19721101
Well Depth:	430	Well Depth Units:	ft
Well Hole Depth:	430	Well Hole Depth Units:	ft

E22
NE
1 - 2 Miles
Lower

GA WELLS **0000004660**

County code:	121	Well num:	10EE29
Remarks:	RICHARD L. AECK	Lat:	335028
Lon:	0842734	Latlon datum:	NAD27
Alt:	850.00	Alt datum:	NGVD29
Depth:	430	Depth to casing:	50.00
Casing dia:	6.00	Casing matl:	S
Depth to top:	50.00	Depth to bot:	430.00
Opening type:	X	Constr date:	197211
Discharge:	100.00	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000004660

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

F23
NW
1 - 2 Miles
Higher

GA WELLS **0000002232**

County code:	067	Well num:	10EE04
Remarks:	COOK, D.W.	Lat:	335037
Lon:	0842959	Latlon datum:	NAD27
Alt:	1020	Alt datum:	NGVD29
Depth:	109	Depth to casing:	40
Casing dia:	6	Casing matl:	Not Reported
Depth to top:	40	Depth to bot:	109
Opening type:	X	Constr date:	1941
Discharge:	Not Reported	Prim use:	H
Aquifer code:	320CRSL	Edr id:	0000002232

F24
NW
1 - 2 Miles
Higher

FED USGS **USGS40000265164**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	10EE04	Type:	Well
Description:	COOK, D.W.	HUC:	03130002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation Type:	Crystalline Rocks	Aquifer Type:	Confined multiple aquifer
Construction Date:	1941	Well Depth:	109
Well Depth Units:	ft	Well Hole Depth:	109
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	40	Level reading date:	1987-10-26
Feet below surface:	59.19	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1986-07-28	Feet below surface:	72.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-31	Feet below surface:	56.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-05-31	Feet below surface:	51.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-11-01	Feet below surface:	55.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-31	Feet below surface:	53.16
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-10-26	Feet below surface:	58.36
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-05-25	Feet below surface:	58.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-22	Feet below surface:	59.23

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-21	Feet below surface:	55.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-13	Feet below surface:	53.71
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-29	Feet below surface:	52.66
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-25	Feet below surface:	55.06
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-23	Feet below surface:	53.91
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12-07	Feet below surface:	56.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-18	Feet below surface:	56.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-25	Feet below surface:	52.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-04-21	Feet below surface:	52.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-31	Feet below surface:	53.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-01	Feet below surface:	52.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-01-30	Feet below surface:	56.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-28	Feet below surface:	56.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-01	Feet below surface:	57.61
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-10-27	Feet below surface:	57.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-30	Feet below surface:	57.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-26	Feet below surface:	54.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-07-27	Feet below surface:	56.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-06-28	Feet below surface:	56.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-05-26	Feet below surface:	55.57
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1977-05-02	Feet below surface:	55.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-28	Feet below surface:	56.39
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-23	Feet below surface:	57.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-26	Feet below surface:	56.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-21	Feet below surface:	54.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-14	Feet below surface:	54.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-06-03	Feet below surface:	52.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-14	Feet below surface:	53.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-05-15	Feet below surface:	51.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-10-18	Feet below surface:	54.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-04-02	Feet below surface:	55
Feet to sea level:	Not Reported	Note:	Not Reported

25
WNW
1 - 2 Miles
Higher

FED USGS **USGS40000265145**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	09EE08	Type:	Well
Description:	Josephine Harris	HUC:	03130002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1935
Well Depth:	72	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for COBB County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 30080

Number of sites tested: 3

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.067 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	3.300 pCi/L	67%	33%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Georgia GIS Clearinghouse
Telephone: 706-542-1581

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

A listing of Private Water Well locations
Georgia Department of Public Health
Telephone: (404) 657-2700
A listing of Private Water Well locations

Georgia Public Supply Wells
Source: Georgia Department of Community Affairs
Telephone: 404-894-0127

USGS Georgia Water Wells
Source: USGS, Georgia District Office
Telephone: 770-903-9100

DNR Managed Lands
Source: Department of Natural Resources
Telephone: 706-557-3032
This dataset provides 1:24,000-scale data depicting boundaries of land parcels making up the public lands managed by the Georgia Department of Natural Resources (GDNR). It includes polygon representations of State Parks, State Historic Parks, State Conservation Parks, State Historic Sites, Wildlife Management Areas, Public Fishing Areas, Fish Hatcheries, Natural Areas and other specially-designated areas. The data were collected and located by the Georgia Department of Natural Resources. Boundaries were digitized from survey plats or other information.

RADON

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

APPENDIX A

DATA FROM COUNTY SOURCES

From: Moore, Mary
To: roseline.hartz@wsp.com
Subject: RE: General Contact Email
Date: Tuesday, January 31, 2023 12:09:58 PM

We have no records of approved water wells within a 2-mile area of Plant McDonough Atkinson, 5551 South Cobb Drive, Smyrna.

Best regards,

Mary Moore
Customer Service Representative
Center for Environmental Health
Cobb & Douglas Public Health
1738 County Services Parkway SW, 2nd Floor
Marietta, GA 30008-4012
Phone: 770-438-5116
Fax: 770-431-7410
Front Desk: 770-435-7815
Email: mary.moore@dph.ga.gov

We're committed to making sure you receive the best service possible.
Please click to complete a brief survey about your most recent Environmental Health experience.

Healthier lives. Healthier community.
http://www.cobbanddouglaspublichealth.com

From: Crow, Valerie <Valerie.Crow@dph.ga.gov>
Sent: Friday, January 27, 2023 3:00 PM
Subject: General Contact Email

Chris,

FYI:

CDPH General Contact_072922 : Entry # 91205 — show empty fields

Your Email
roseline.hartz@wsp.com
Name
Roseline hartz
Phone Number
(646) 370-9515
How can we help you?

I am looking for information regarding any wells that would be located within 2 miles of Plant McDonough at 5551 S Cobb Dr, Smyrna, GA 30080. Please give me a call or send me an email with any information if possible. Thank you!

APPENDIX B

SEN'S SLOPE/MANN KENDALL TREND ANALYSES

Appendix IV Trend Tests - All Results

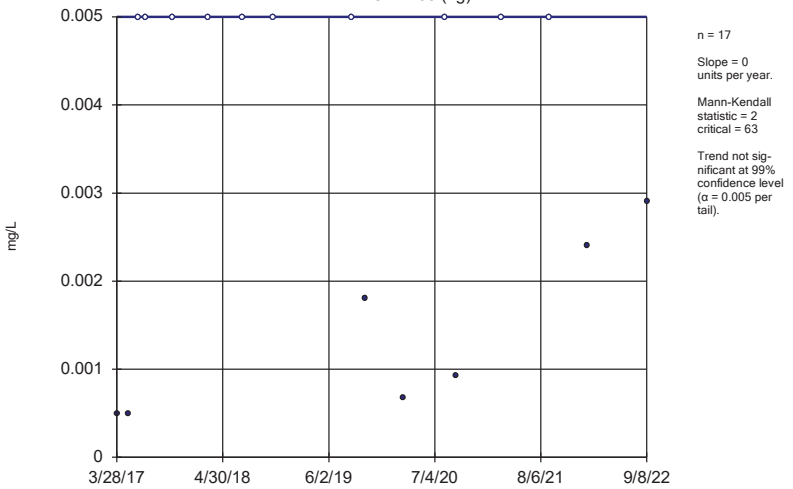
Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/22/2022, 10:13 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	DGWA-53 (bg)	0	2	63	No	17	58.82	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-70A (bg)	0	-31	-63	No	17	82.35	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-71 (bg)	0	24	58	No	16	81.25	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWC-9	-0.0002264	-4	-63	No	17	5.882	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-53 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	**DGWA-70A (bg)**	**-0.0005528**	**-75**	**-63**	**Yes**	**17**	**47.06**	**n/a**	**n/a**	**0.01**	**NP**
Beryllium (mg/L)	DGWA-71 (bg)	-0.00001726	-46	-63	No	17	29.41	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-10	0.0005202	26	58	No	16	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-47	-0.0008716	-63	-63	No	17	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	**DGWC-48**	**-0.0003618**	**-75**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Beryllium (mg/L)	DGWC-5	0.0004942	44	58	No	16	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-9	0.00003719	9	63	No	17	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-92	-0.00171	-3	-12	No	5	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-93	0.001505	13	18	No	7	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	**DGWA-53 (bg)**	**-0.004341**	**-86**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	DGWA-70A (bg)	0	11	63	No	17	52.94	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-71 (bg)	0	23	58	No	16	68.75	n/a	n/a	0.01	NP
Cobalt (mg/L)	**DGWC-10**	**-0.02391**	**-81**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	DGWC-19	-0.0001283	-13	-63	No	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-20	0.05164	45	63	No	17	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	**DGWC-47**	**-0.04254**	**-94**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**DGWC-48**	**-0.04236**	**-118**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**DGWC-8**	**-0.01359**	**-84**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	**DGWC-9**	**0.02203**	**94**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Cobalt (mg/L)	B-104D	-0.02997	-5	-14	No	6	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-56	0.004575	10	14	No	6	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-63	-0.001791	-4	-18	No	7	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-93	-0.002781	-12	-18	No	7	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	**DGWA-53 (bg)**	**-0.5606**	**-74**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Combined Radium 226 + 228 (pCi/L)	DGWA-70A (bg)	0.02757	9	68	No	18	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-71 (bg)	0.0095	5	63	No	17	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	B-104D	-3.972	-6	-12	No	5	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-53 (bg)	-0.0001177	-22	-63	No	17	5.882	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-70A (bg)	0	21	63	No	17	82.35	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-71 (bg)	-0.0001133	-55	-58	No	16	18.75	n/a	n/a	0.01	NP
Lithium (mg/L)	**DGWC-47**	**-0.005519**	**-84**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Lithium (mg/L)	**DGWC-48**	**-0.006296**	**-90**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-53 (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 2
critical = 63

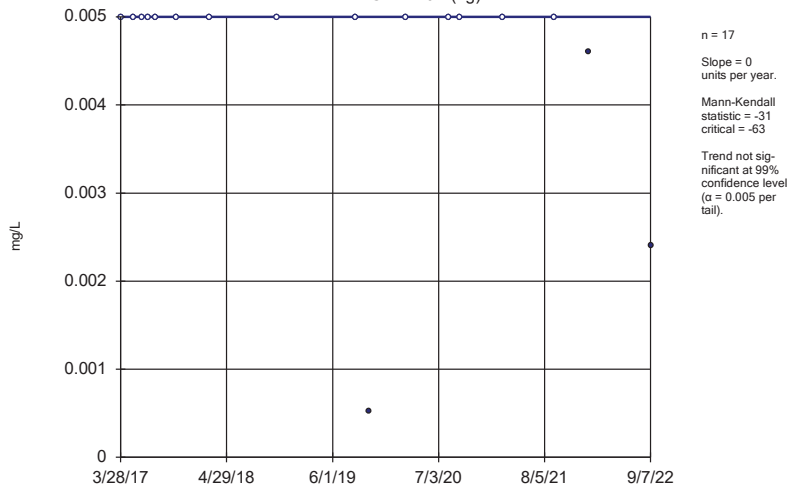
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -31
critical = -63

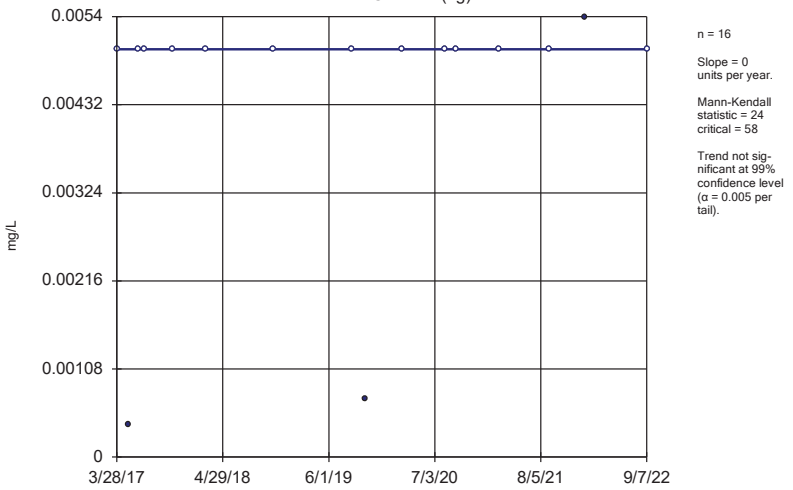
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = 24
critical = 58

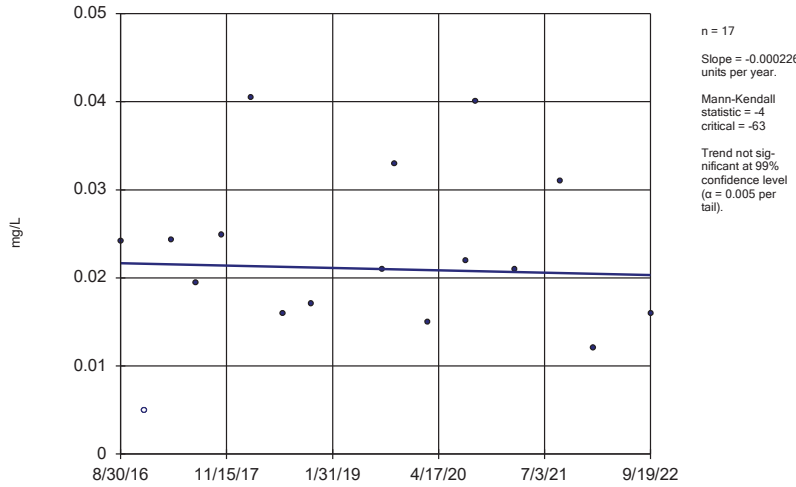
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWC-9



n = 17

Slope = -0.0002264 units per year.

Mann-Kendall statistic = -4
critical = -63

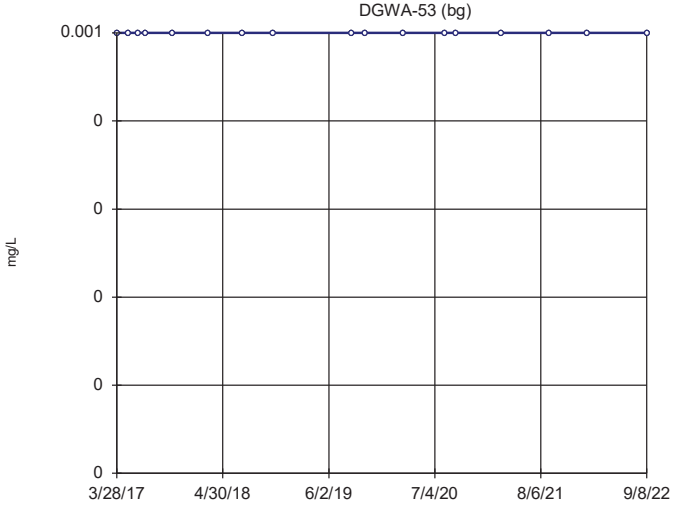
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-53 (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 63

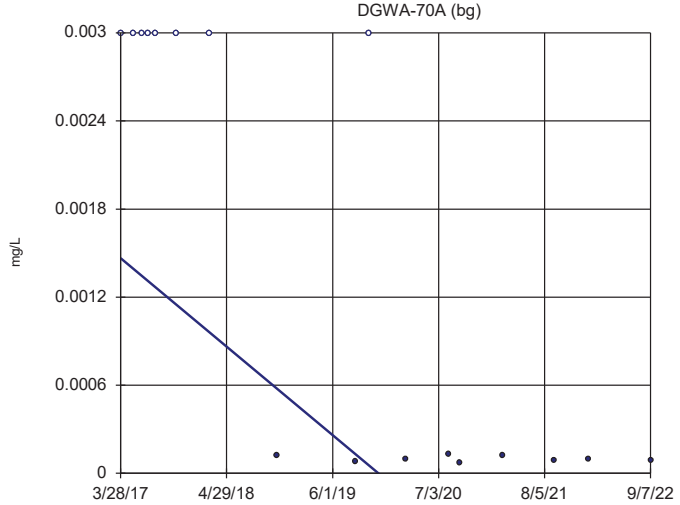
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 17

Slope = -0.0005528 units per year.

Mann-Kendall statistic = -75
critical = -63

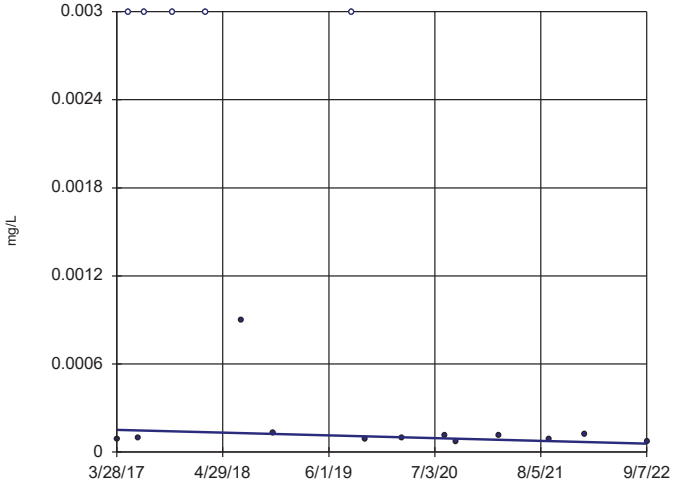
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 17

Slope = -0.00001726 units per year.

Mann-Kendall statistic = -46
critical = -63

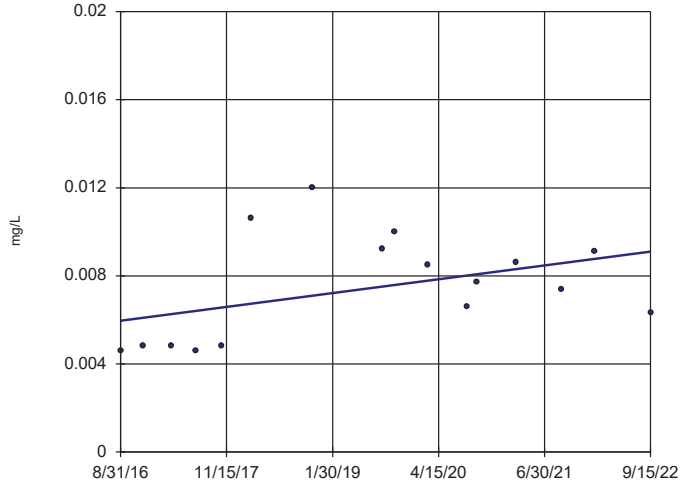
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWC-10



n = 16

Slope = 0.0005202 units per year.

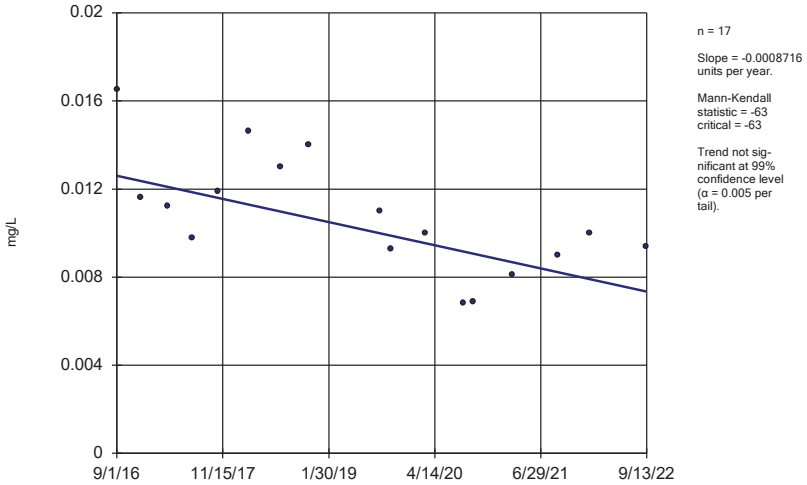
Mann-Kendall statistic = 26
critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-47



n = 17

Slope = -0.0008716 units per year.

Mann-Kendall statistic = -63
critical = -63

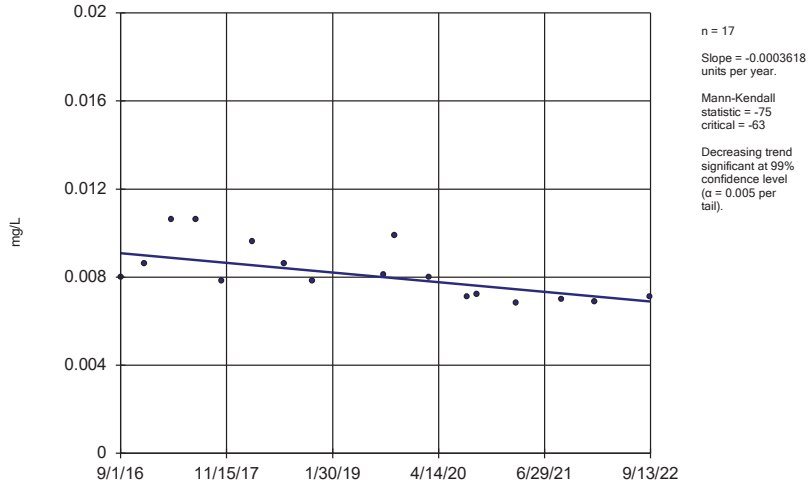
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWC-48



n = 17

Slope = -0.0003618 units per year.

Mann-Kendall statistic = -75
critical = -63

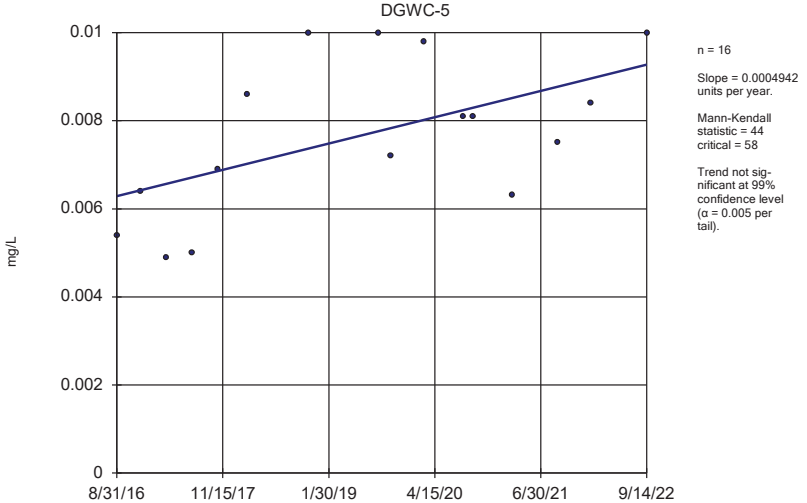
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWC-5



n = 16

Slope = 0.0004942 units per year.

Mann-Kendall statistic = 44
critical = 58

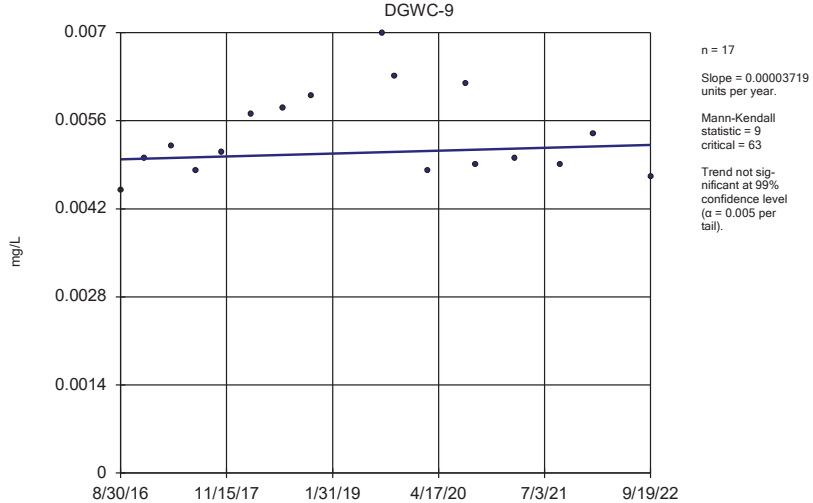
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWC-9



n = 17

Slope = 0.00003719 units per year.

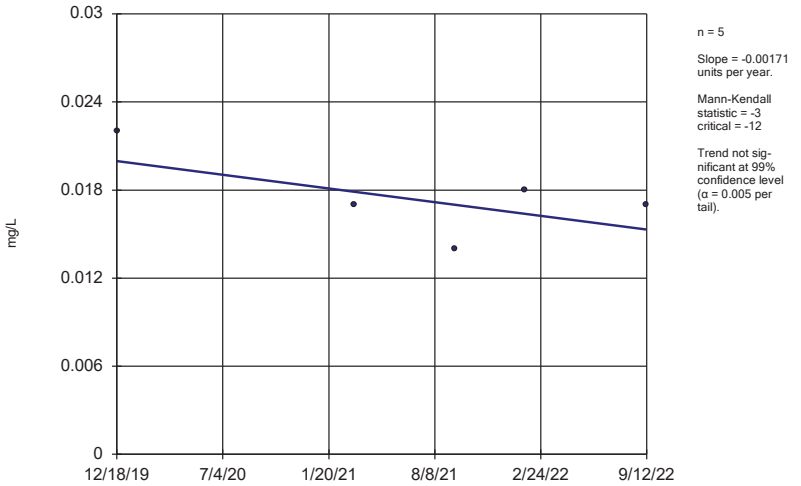
Mann-Kendall statistic = 9
critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

B-92



n = 5

Slope = -0.00171 units per year.

Mann-Kendall statistic = -3
critical = -12

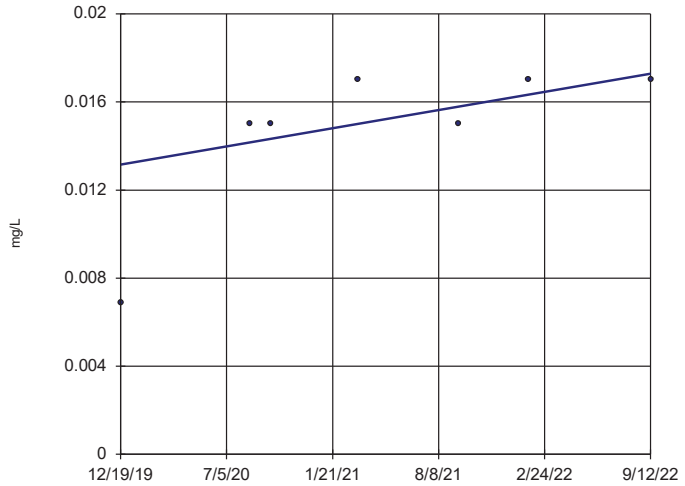
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

B-93



n = 7

Slope = 0.001505 units per year.

Mann-Kendall statistic = 13
critical = 18

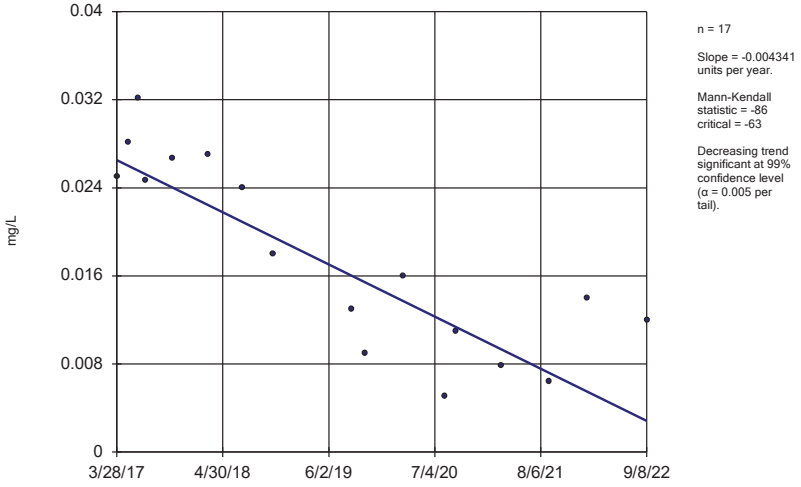
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWA-53 (bg)



n = 17

Slope = -0.004341 units per year.

Mann-Kendall statistic = -86
critical = -63

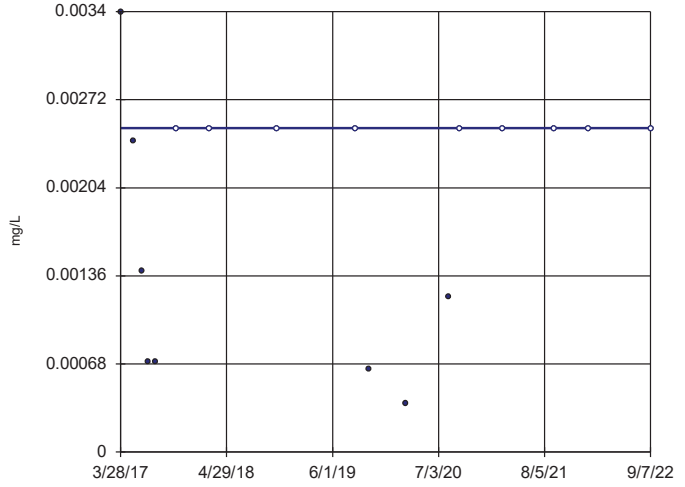
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 11
critical = 63

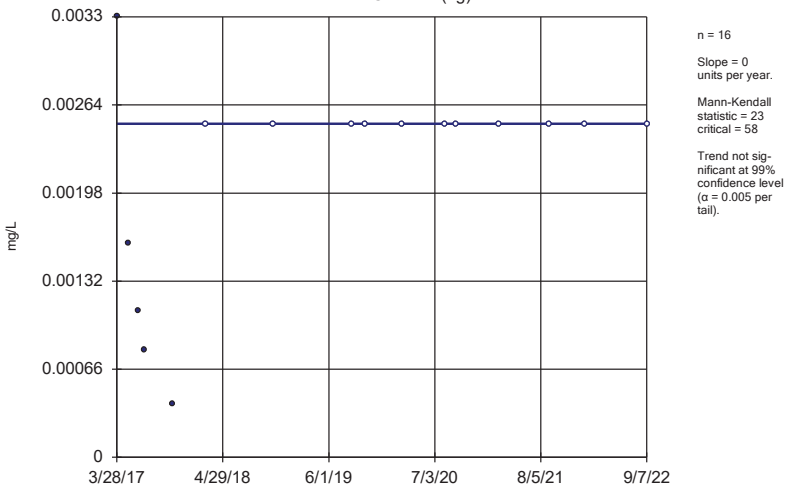
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:09 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = 23 critical = 58

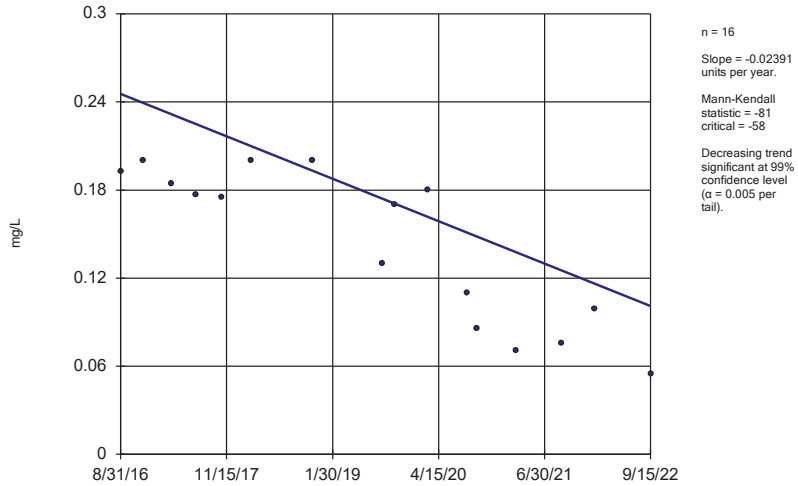
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWC-10



n = 16

Slope = -0.02391 units per year.

Mann-Kendall statistic = -81 critical = -58

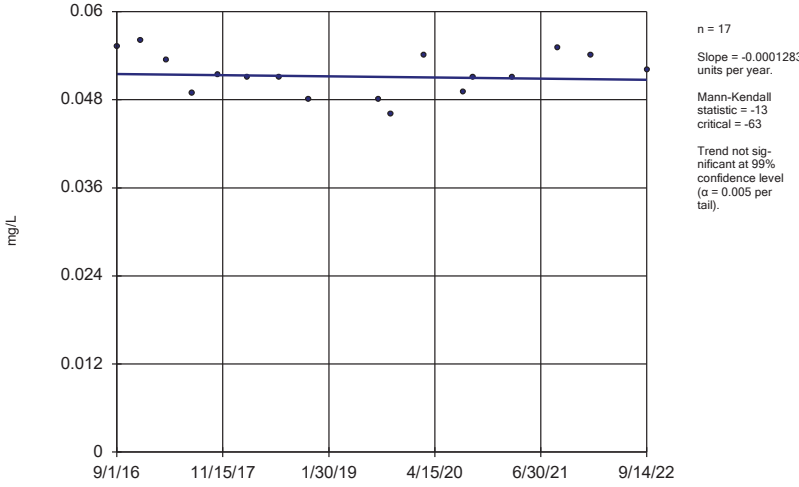
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWC-19



n = 17

Slope = -0.0001283 units per year.

Mann-Kendall statistic = -13 critical = -63

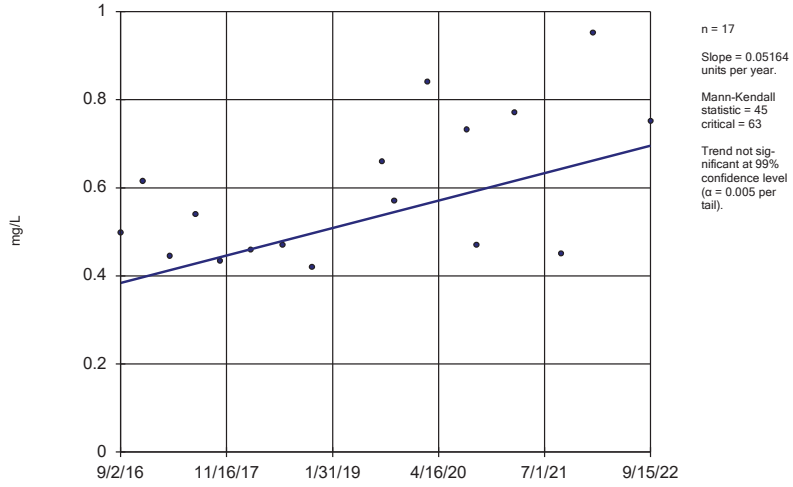
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWC-20



n = 17

Slope = 0.05164 units per year.

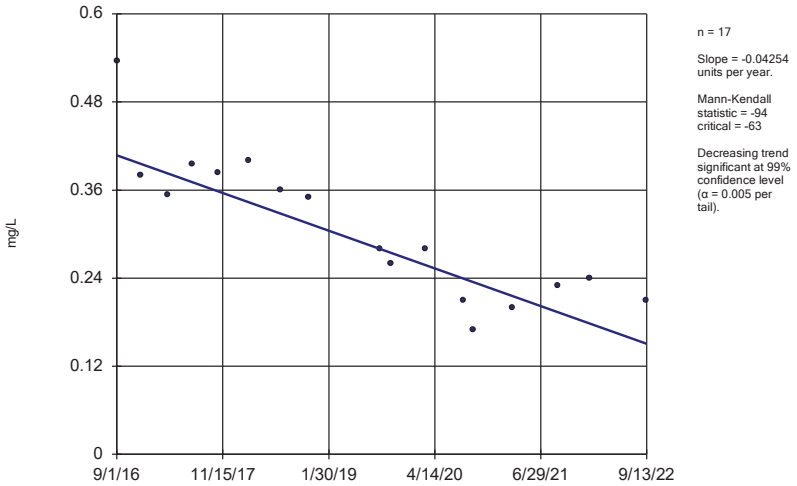
Mann-Kendall statistic = 45 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-47



n = 17

Slope = -0.04254 units per year.

Mann-Kendall statistic = -94
critical = -63

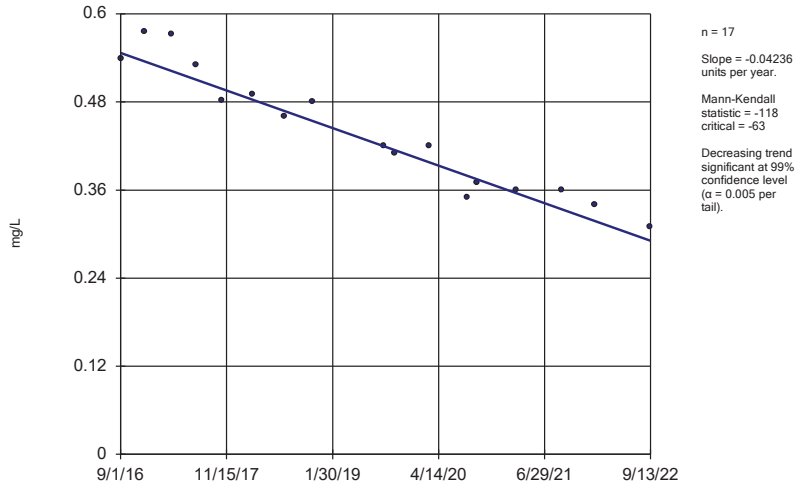
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWC-48



n = 17

Slope = -0.04236 units per year.

Mann-Kendall statistic = -118
critical = -63

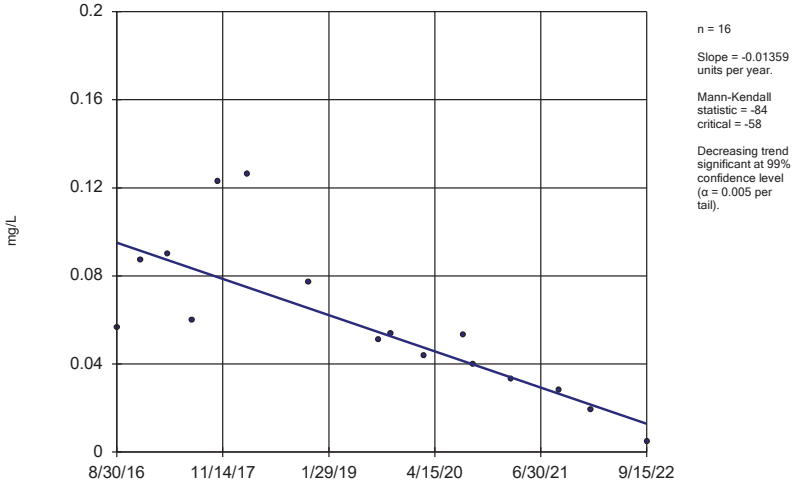
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWC-8



n = 16

Slope = -0.01359 units per year.

Mann-Kendall statistic = -84
critical = -58

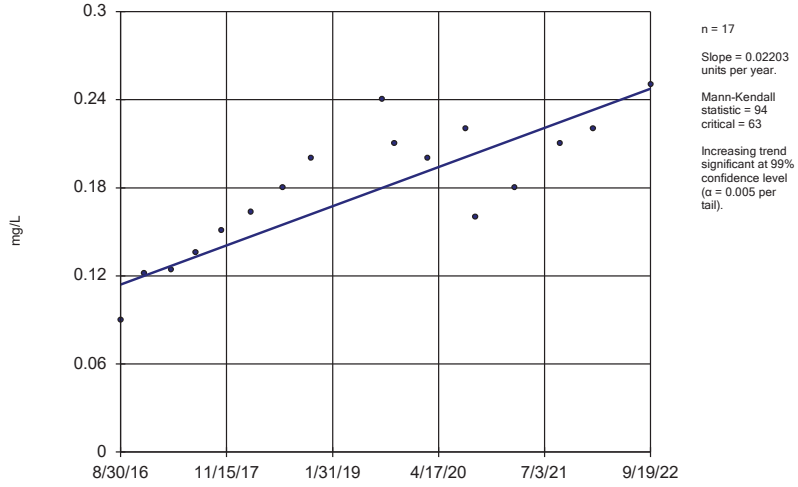
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWC-9



n = 17

Slope = 0.02203 units per year.

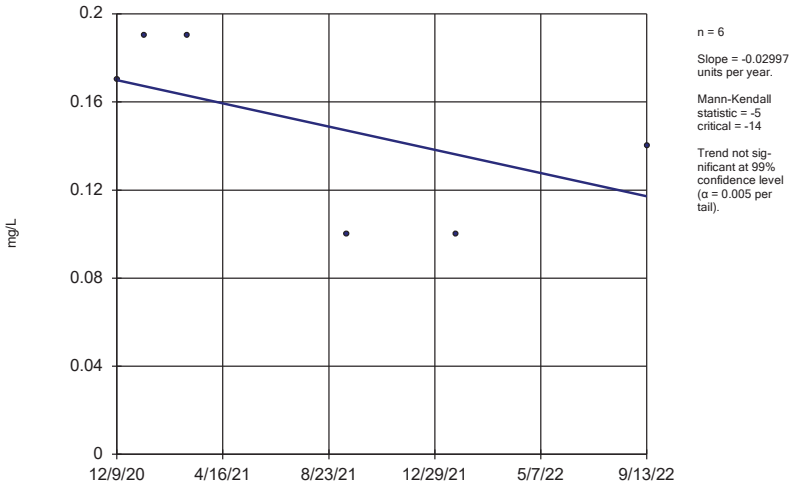
Mann-Kendall statistic = 94
critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

B-104D



n = 6

Slope = -0.02997 units per year.

Mann-Kendall statistic = -5
critical = -14

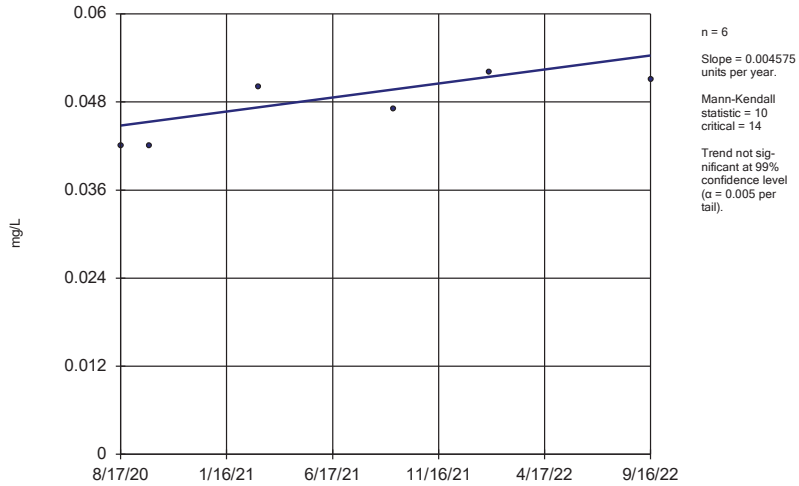
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

B-56



n = 6

Slope = 0.004575 units per year.

Mann-Kendall statistic = 10
critical = 14

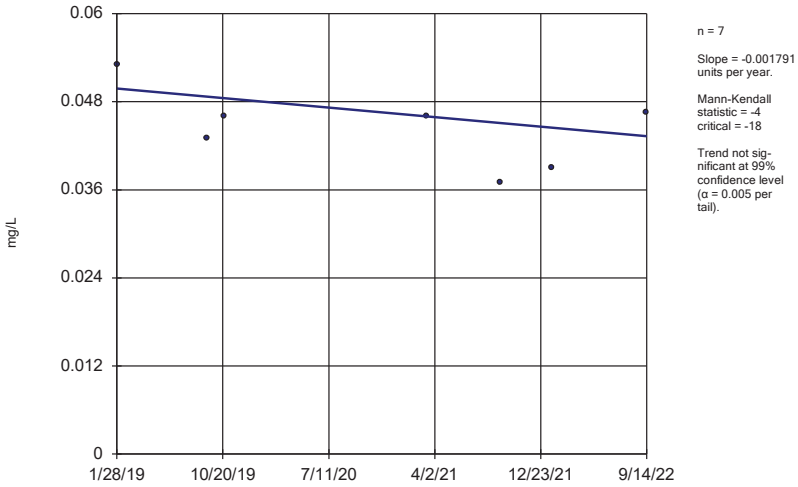
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

B-63



n = 7

Slope = -0.001791 units per year.

Mann-Kendall statistic = -4
critical = -18

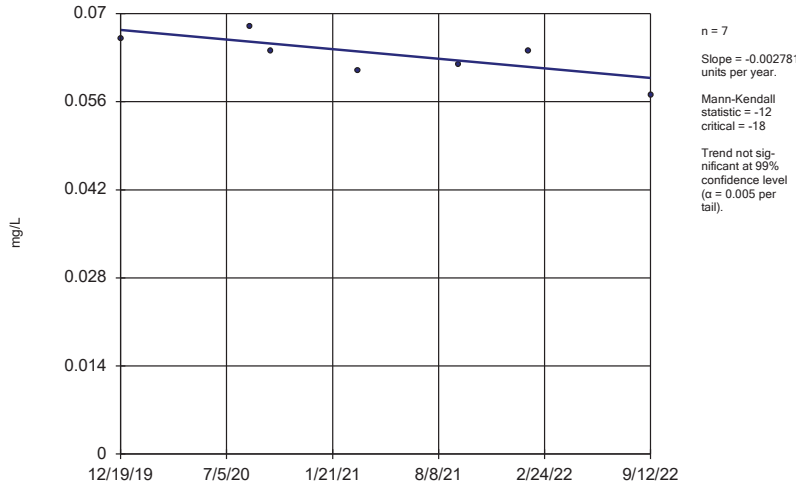
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

B-93



n = 7

Slope = -0.002781 units per year.

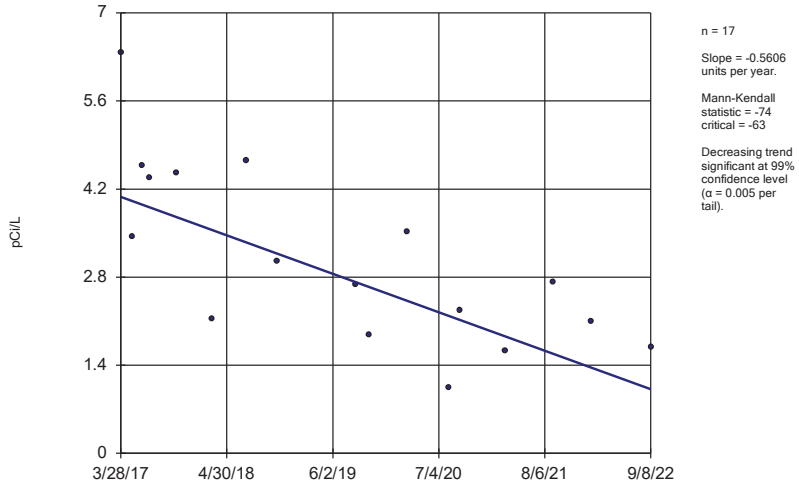
Mann-Kendall statistic = -12
critical = -18

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWA-53 (bg)



n = 17

Slope = -0.5606 units per year.

Mann-Kendall statistic = -74
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

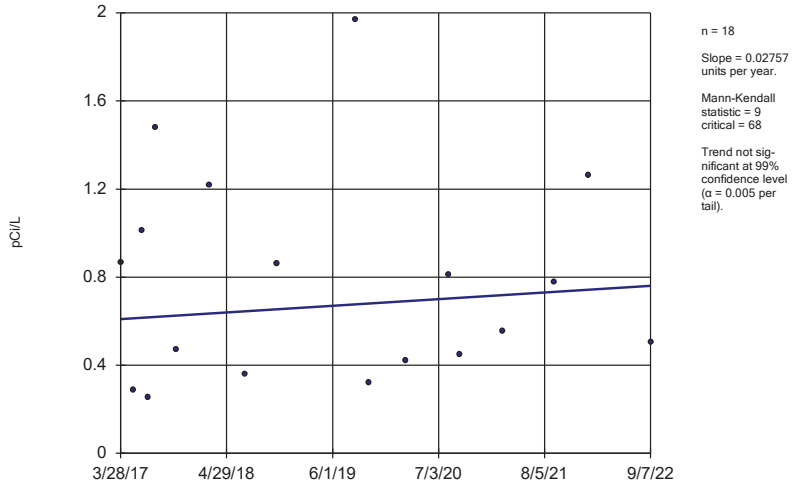
Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWA-70A (bg)



n = 18

Slope = 0.02757 units per year.

Mann-Kendall statistic = 9
critical = 68

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

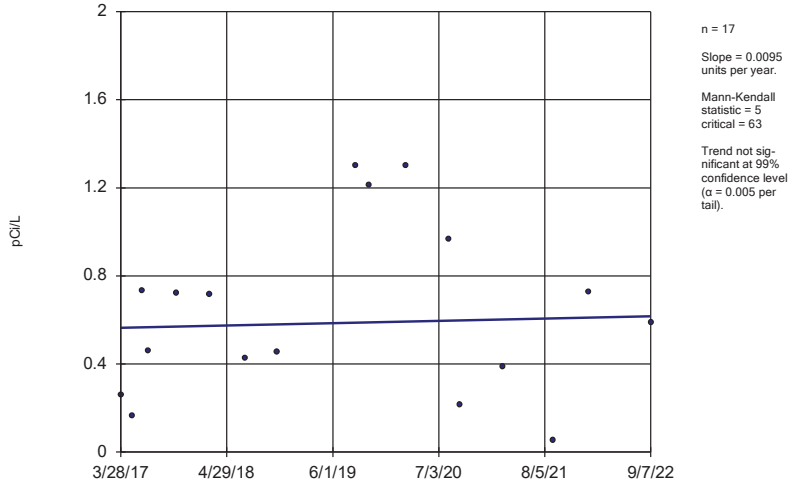
Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWA-71 (bg)



n = 17

Slope = 0.0095 units per year.

Mann-Kendall statistic = 5
critical = 63

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

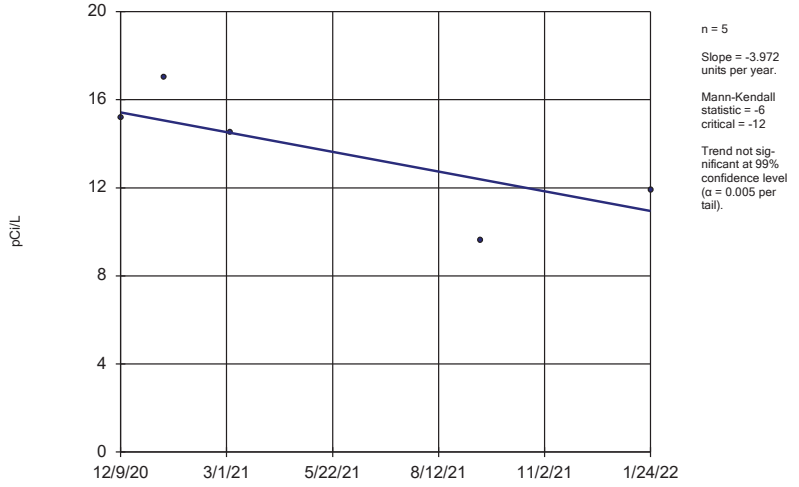
Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

B-104D



n = 5

Slope = -3.972 units per year.

Mann-Kendall statistic = -6
critical = -12

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

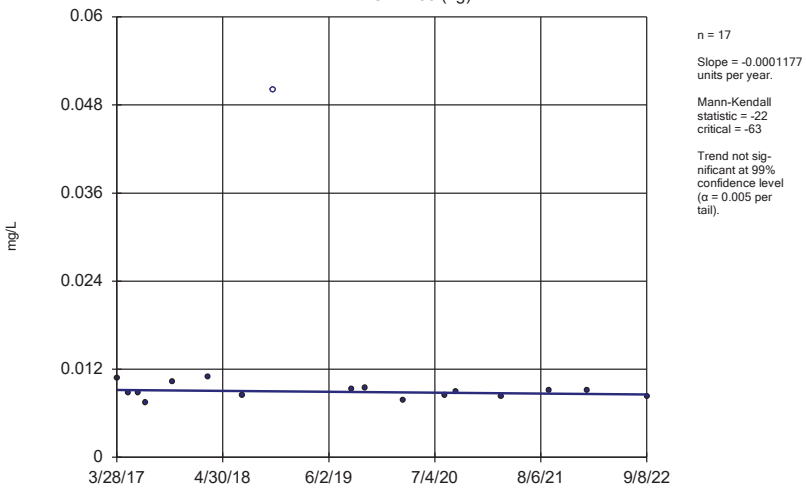
Constituent: Combined Radium 226 + 228 Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-53 (bg)



n = 17

Slope = -0.0001177 units per year.

Mann-Kendall statistic = -22
critical = -63

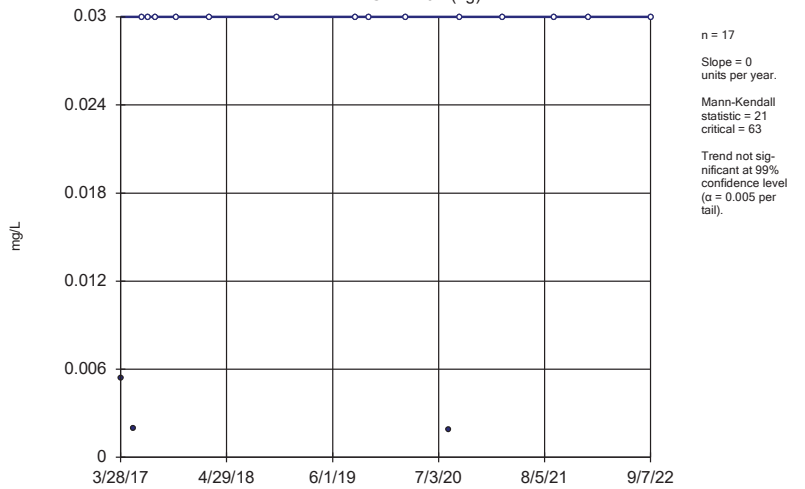
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lithium Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 21
critical = 63

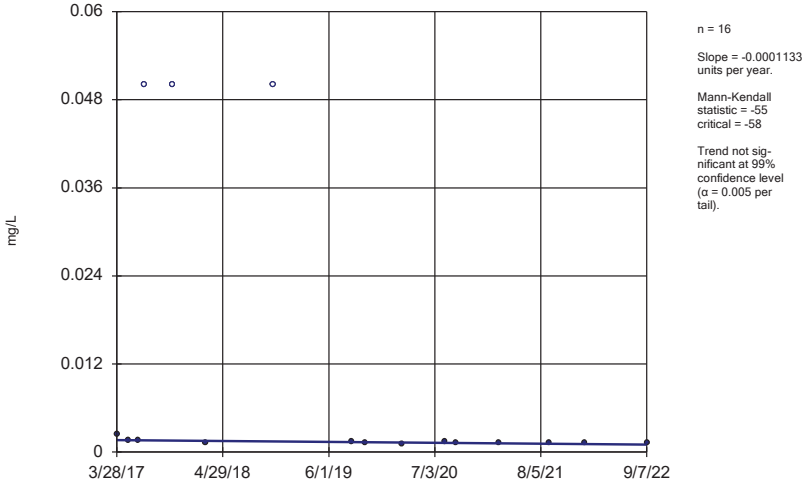
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lithium Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 16

Slope = -0.0001133 units per year.

Mann-Kendall statistic = -55
critical = -58

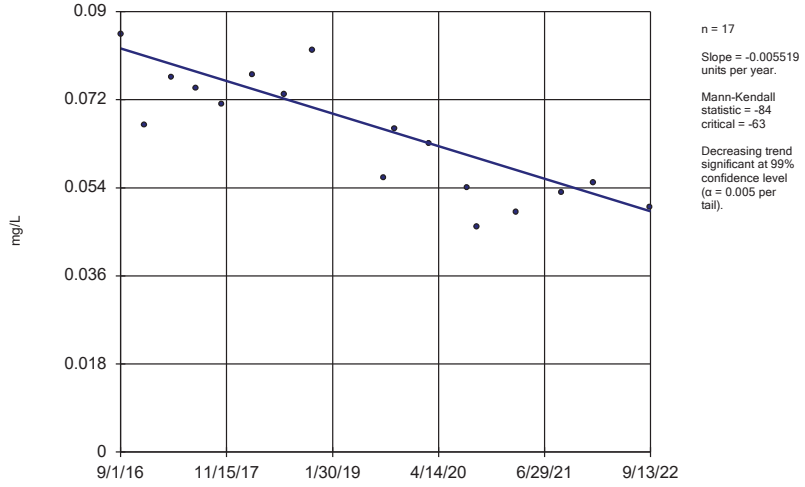
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lithium Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Sen's Slope Estimator

DGWC-47



n = 17

Slope = -0.005519 units per year.

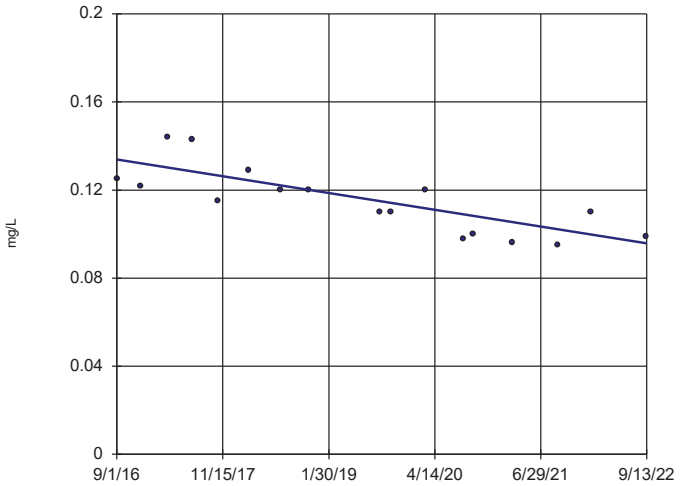
Mann-Kendall statistic = -84
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lithium Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-48



n = 17

Slope = -0.006296 units per year.

Mann-Kendall statistic = -90
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lithium Analysis Run 11/22/2022 10:10 AM View: AP 234 Appendix IV Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

APPENDIX C

TERRA SYSTEMS, INC. TREATABILITY STUDY REPORT

Terra Systems
INCORPORATED

October 21, 2022

Todd Rees, PhD, PE
Senior Program Leader

GOLDER
MEMBER OF WSP

Golder Associates Inc.
Amherst, MA., Montrose, CO.

TERRA SYSTEMS, INC. DRAFT REPORT FOR GOLDER/WSP FOR COAL COMBUSTION RESIDUE AT PLANT MCDONOUGH ATKINSON ASH POND 1, 2, 3, AND 4 PHASE II TREATABILITY STUDY VERSION 1

1.0 INTRODUCTION

Coal combustion residue landfill may generate acidic conditions which allow metals such as arsenic (As), beryllium (Be), cobalt (Co), lithium (Li), molybdenum (Mo), and selenium (Se) to accumulate to levels above regulatory limits. This bench-scale treatability evaluated neutralization/precipitation with potassium bicarbonate, sodium bicarbonate, ferrous oxide, and ferrous sulfide solution for three groundwaters and soils from Georgia Power Company (Georgia Power) Plant McDonough-Atkinson Ash Pond 1 (AP-1) which has arsenic and molybdenum in two groundwaters (DGWC-69 and DGWC-68A) and cobalt in DGWC-40. Plant McDonough-Atkinson Ash Pond 2, Ash Pond 3 and Ash Pond 4 (AP-2 and 3/4) has arsenic, beryllium, cobalt, lithium, and selenium in two groundwaters (DGWC-48 and DGWC-20). The treatability test from AP-2 and 3/4 used only groundwater. The Georgia Groundwater Protection Standards (GA GWPS) are 0.010 mg/L for arsenic, 0.0040 mg/L for beryllium, 0.032 mg/L for cobalt, 0.10 mg/L for lithium, 0.10 mg/L for molybdenum, and 0.050 mg/L for selenium.

2.0 BENCH-SCALE STUDY SCOPE

The objective of the bench-scale study is to evaluate the appropriate in situ remediation technology for several metals including arsenic, cobalt, beryllium, lithium, molybdenum, and selenium:

- Identify the feasibility of in-situ remediation.
- Determine the design parameters including reagent dosage and demand.

The bench-scale treatability study investigated four reagents: potassium bicarbonate, sodium bicarbonate, iron oxide, and Redox Solutions ferrous sulfide solution (Ferroblack H).

2.1 Reagent Selection

The bench-scale treatability study assumes that one of the following technologies can be used for in-situ remediation of the metals:

- elevated pH precipitation
- oxidation with iron oxide
- reduction with a ferrous sulfide solution

All reagents used for the bench-scale test were commercially available products. The reagent usages and their dosages could be adjusted according to the results of the activities and

observations during the execution of the bench-scale treatability study. The following provides more detail on each of the reagents proposed for the bench-scale treatability testing:

- Potassium Bicarbonate (KHCO3): Potassium bicarbonate can increase the pH up to about 8.2 SU. Three loadings of LC Carlsen potassium bicarbonate were evaluated in the tests to determine the precipitation of arsenic and molybdenum in two groundwaters and associated soils from Plant AP-1 (DGWC-69 and DGWC-68A); three loadings of potassium bicarbonate to address cobalt from one groundwater and associated soil in Plant AP-1 DGWC-40; and three loadings of potassium bicarbonate to address arsenic, beryllium, and cobalt in groundwater from Plant AP 234 (DGWC-48 and DGWC-20).

- Sodium Bicarbonate (NaHCO3): Sodium bicarbonate can increase the pH up to about 8.3 SU. Three loadings of Genesis sodium bicarbonate were evaluated in the tests to determine the precipitation of arsenic and molybdenum in two groundwaters and associated soils from Plant AP-1 (DGWC-69 and DGWC-68A); three loadings of sodium bicarbonate to address cobalt from one groundwater and associated soil in Plant AP-1 DGWC-40; and three loadings of sodium bicarbonate to address arsenic, beryllium, and cobalt in groundwater from Plant AP 234 (DGWC-48 and DGWC-20).

- Ferric oxide. Ferric oxide (Fe_2O_3) is insoluble in water and has a pH of 6-8. Three loadings of Sigma Aldrich ferric oxide (<5 μm, 96%) were evaluated for the precipitation of arsenic and molybdenum in two groundwaters and associated soils from Plant AP-1 (DGWC-69 and DGWC-68A); three loadings of ferric oxide to address cobalt from one groundwater and associated soil in Plant AP-1 DGWC-40; and three loadings of ferric oxide to address arsenic, beryllium, and cobalt in groundwater from Plant AP 234 (DGWC-48 and DGWC-20).

- Ferroblack H (FeB). Ferrous sulfide (FeS) is insoluble in water and has a pH of 9.5-12.5. Three loadings of Redox Solutions Ferroblack H ferrous sulfide solution were evaluated for the precipitation of arsenic and molybdenum in two groundwaters and associated soils from Plant AP-1 (DGWC-69 and DGWC-68A); three loadings of FeB to address cobalt from one groundwater and associated soil in Plant AP-1 DGWC-40; and three loadings of FeB to address arsenic, beryllium, and cobalt in groundwater from Plant AP 2 and 3/4 (DGWC-48 and DGWC-20).
-

2.2 Bench-scale Groundwater and Soil Collection

Groundwater samples were collected from the five locations (Plant AP-1 DGWC-69, DGWC-68A, and DGWC-40 and Plant AP234 DGWC-48 and DGWC-20). Soil samples were collected from Plant AP-1 DGWC-69, DGWC-68A, and DGWC-40. With 1 L reaction vessels for each treatment, about 3-5 gallons of each of the five groundwaters were required. The samples were delivered to the TSI under a chain of custody. Groundwater samples from AP-2 and 3/4 DGWC-20 and DGWC-48, AP-1 DGWC-68A, DGWC-69, and DGWC-40 were delivered to TSI on 6/24/22 and stored in refrigerators. The14.4 kg soil sample from AP-1 DGWC-69 was received on 6/28/22. The 14.6-14.8 kg soil samples from AP-1 DGWC-68A and DGWC-40 were initially lost by Federal Express. They were recovered by Terra Systems, Inc. (TSI) on 7/7/22.

2.3 Baseline characterization

At the beginning of the bench-scale treatability test, the baseline characterization was performed to verify contaminant concentrations in the samples. The groundwater samples were homogenized to the extent possible. The homogenized groundwater samples were analyzed for total cobalt, arsenic, molybdenum, beryllium, lithium, selenium, iron, potassium, manganese, magnesium, and sodium (metals chosen based upon site characteristics); dissolved arsenic, beryllium, cobalt, molybdenum, lithium, and selenium (based upon site characteristics); dissolved organic carbon (DOC), and sulfate, by the Eurofins Lancaster Laboratories Environmental (ELLE) and for pH, ORP, dissolved oxygen (DO), bicarbonate alkalinity, total hardness, ferrous iron, and sulfide by TSI using calibrated meters and Hach procedures.

2.4 Titration Tests

Alkaline titrations were conducted to determine the potassium bicarbonate and sodium bicarbonate testing dosages. An alkaline titration test was completed to determine the pH resulting from 0, 1, 2, 5, and 10 g/L additions of potassium bicarbonate and sodium bicarbonate reagent dosages. The aqueous total suspended solids (TSS) were determined by weighing the 0.2 μm nylon filter before filtering the samples and after filtration and drying in a 105 ^{o}C oven. The weight of the TSS collected was divided by the volume of groundwater that passed through the filters.

2.5 Reagent Screening

The purpose of this step was to select the most appropriate reagent for each of the nine groundwater samples.

The reagent dosages were determined from the baseline characterization and titration. For each sample, a total of 13 reactors were set up for each site.

AP-1 (Arsenic and Molybdenum) DGWC-69 and DGWC-68A with 713-812 g groundwater and 417-580 g soil

- Control
- Potassium Bicarbonate: 3 dosages (2, 5, and 10 g/L)
- Sodium Bicarbonate: 3 dosages (2, 5, and 10 g/L)
- Ferric Oxide: 3 Dosages (0.5, 1.0, and 2.0 g/L)
- Ferroblack H: 3 Dosages (10, 20, and 30 g/L)

Plant AP-1 (Cobalt) DGWC-40 with 580 g soil and 705-781 g groundwater

- Control
- Potassium Bicarbonate: 3 dosages (2, 5, and 10 g/L)
- Sodium Bicarbonate: 3 dosages (2, 5, and 10 g/L)
- Ferric Oxide: 3 Dosages (0.5, 1.0, and 2.0 g/L)
- Ferroblack H: 3 Dosages (10, 20, and 30 g/L)

Plant AP-2 and 3/4 (Arsenic, Beryllium, Cobalt, Lithium, and Selenium) DGWC-49 and DGWC-20 with only 1,032 to 1,069 g groundwater

- Control
- Potassium Bicarbonate: 3 dosages (2, 5, and 10 g/L)
- Sodium Bicarbonate: 3 dosages (2, 5, and 10 g/L)
- Ferric Oxide: 3 Dosages (0.5, 1.0, and 2.0 g/L)

- Ferroblack H: 3 Dosages (10, 20, and 30 g/L)

All containers were mixed and turned periodically for seven days. Groundwater samples (the supernatants in the reactors) were analyzed for:

- total arsenic, beryllium, cobalt, molybdenum, and selenium (based upon contaminants of concern for each site);
- total iron, potassium, manganese, magnesium, and sodium
- dissolved arsenic, beryllium, cobalt, molybdenum, and selenium (based upon contaminants of concern for each site). The aqueous samples were filtered through 0.2 μm nylon filters and the filtrates were divided into bottles for DOC and metals.
- dissolved organic carbon (DOC)
- sulfate

ELLE conducted the metals, DOC, and sulfate analyses. The pH, ORP, dissolved oxygen (DO), bicarbonate alkalinity, total hardness, ferrous iron, and sulfide were conducted by TSI using calibrated meters and Hach procedures. The estimated sample volumes for the initial characterization, and screening tests are shown in Table 1. The volumes were adjusted to account for required dilutions and volumes of water available.

3.0 PLANT AP-1

3.1 Plant AP-1 Initial Characterization Results

Table 2 has the initial characterization results of the field parameters, Hach tests, metals, DOC, and sulfate results for the three groundwater samples in AP-1.

3.1.1 AP-1 DGWC-69. The groundwater pH was 7.4 with a moderate bicarbonate alkalinity of 60 mg/L CaCO3. There was a positive ORP (244 mV) and moderate dissolved oxygen (6.1 mg/L). The TSS was 6.6 mg/L with a hardness 60 mg/L, 0.08 mg/L ferrous iron, and 0.01 mg/L sulfide. With 100 g soil and 150 g of the AP1 DGWC-69 groundwater (40% soil, 60% groundwater), the pH increased from 7.3 to 7.5 SU with 1 g/L sodium bicarbonate and increased to 8.1 with 10 g/L. The pH of 100 g soil and 150 g groundwater increased from 6.3 to 7.3 SU with 1 g/L potassium bicarbonate and to 8.0 with 10 g/L. This groundwater has low 10 mg/L sulfate and 0.59 mg/L DOC. Total arsenic was 0.026 mg/L and dissolved arsenic was 0.052 mg/L; both exceeded the GA GWPS. There is not a clear explanation as to why the dissolved arsenic was higher than the total arsenic. Total and dissolved molybdenum was detected 0.0053 to 0.0055 mg/L and were below the GA GWPS. The groundwater contained <0.2 mg/L total iron, 2.6 mg/L total magnesium, 0.0036 mg/L total manganese, 2.4 mg/L potassium, and 9.7 mg/L sodium. The soil pH was 6.7 with a density of 1.56 g/cm^3, field holding capacity of 0.15 g/g, and soil dry weight of 93.0%. The soil contained 3.1 mg/kg total arsenic, 0.68 mg/kg total molybdenum, 9,600 mg/kg total iron, 3,000 mg/kg total magnesium, 250 mg/kg total manganese, 3,900 mg/kg potassium, 96 mg/kg sodium, and a moisture content of 19.7%.

3.1.2 AP-1 DGWC-68A. The groundwater pH was 6.8 with a moderate bicarbonate alkalinity of 180 mg/L CaCO3. There was a positive ORP (215 mV) and moderate dissolved oxygen (3.0 mg/L). The TSS was 0 mg/L with a hardness 240 mg/L, 0.01 mg/L ferrous iron, and no sulfide. The pH of 100 g soil and 150 g groundwater increased from 6.8 to 7.5 1U with 1 g/L sodium bicarbonate and increased to 7.8 with 10 g/L. The pH increased from 6.7 to 7.1 SU with 1 g/L potassium bicarbonate and to 7.6 with 10 g/L. This groundwater has moderate 40 mg/L sulfate and 0.71 mg/L DOC. Total arsenic was not detected and dissolved arsenic was 0.014 mg/L; above the

GA GWPS. Molybdenum concentrations were relatively high with 0.20 mg/L total and 0.20 mg/L dissolved; both exceeded the GA GWPS of 0.10 mg/L. The groundwater contained 0.029 mg/L total iron, 18 mg/L total magnesium, 0.072 mg/L total manganese, 3.8 mg/L potassium, and 9.6 mg/L sodium. The soil pH was 7.2 with a density of 1.58 g/cm^3, field holding capacity of 0.29 g/g, and soil dry weight of 88.3%. The soil contained 1.0 mg/kg total arsenic, 7.4 mg/kg total molybdenum, 35,000 mg/kg total iron, 11,000 mg/kg total magnesium, 530 mg/kg total manganese, 12,000 mg/kg potassium, 110 mg/kg sodium, and a moisture content of 12.9%.

3.1.3 AP-1 DGWC-40. The initial groundwater pH was 5.3 SU with a bicarbonate alkalinity of 20 mg/L CaCO3. There was a positive ORP (240 mV) and moderate dissolved oxygen (4.2 mg/L). The TSS was 4.3 mg/L with a hardness of 20 mg/L, 0.03 mg/L ferrous iron, and 0.01 mg/L sulfide. The pH of 100 g soil and 150 g groundwater increased from 5.2 to 6.4 SU with 1 g/L sodium bicarbonate and increased to 7.4 with 10 g/L. The pH of 100 g soil and 150 g groundwater increased from 4.4 to 5.8 SU with 1 g/L potassium bicarbonate and to 7.3 with 10 g/L. This groundwater has moderate 230 mg/L sulfate and no detectable DOC. Total cobalt was detected at 0.040 mg/L and dissolved cobalt at 0.039 mg/L; both were slightly above the GA GWPS of 0.032 mg/L. The groundwater contained <0.020 mg/L total iron, 19 mg/L total magnesium, 3.3 mg/L total manganese, 5.8 mg/L potassium, and 19 mg/L sodium. The soil pH was 5.6 with a density of 1.69 g/cm^3, field holding capacity of 0.23 g/g, and soil dry weight of 84.5%.The soil contained 13 mg/kg total cobalt, 49,000 mg/kg total iron, 9,500 mg/kg total magnesium, 460 mg/kg total manganese, 13,000 mg/kg potassium, 40 mg/kg sodium, and a moisture content of 14.9%.

3.2 Plant AP-1 Testing Results

3.2.1 Well DGWC-69 Summary. Table 3 has the field parameters and ELLE results for the DGWC-69 groundwater. The control treatment received 417 g soil and 798 g groundwater. Potassium bicarbonate or sodium bicarbonate solutions were prepared with between 796 and 812 g groundwater and 1.6 to 8.0 g of buffer. The 580 g soil were added to the bottles and bottles filled with between 749 to 812 g of the solutions. The bicarbonate concentrations ranged from 2.0 to 9.8 g/L. The ferric oxide was added directly to the bottles and concentrations ranged from 0.5, 0.9. and 2.0 g/L. The Ferroblack H treatments received 8.0 to 22.5 g of the ferrous sulfide suspension resulting in 10.6, 20.3, and 30.1 g/L solutions.

On Day 7, the control pH was 6.5. With 2 g/L potassium bicarbonate, the pH increased to 7.2 and the highest dosage of 10 g/L potassium buffers had a pH of 7.7 on Day 7. On Day 7, the pH for the sodium bicarbonate treatments ranged from 7.4 to 8.0, from 6.4 to 6.7 for the iron oxide, and from 8.0 to 9.6 for the Ferroblack H treatments. The ORPS were positive and ranged from 48 to 198 mV. DO ranged from 1.9 to 6.9 mg/L with lower DO of 1.9 to .4.6 mg/L in the Ferroblack H treatments. Bicarbonate alkalinity was moderate in the control (80 mg/L as CaCO3) and increased with bicarbonate additions to a maximum of 5,200 mg/L as $CaCO_3$. The hardness ranged from 60 to 460 mg/L as CaCO3. Ferrous iron ranged from 0.65 to 3.35 with levels above 1.0 mg/L in the 2 g/L KHCO3, 5 g/L KHCO3, 10 g/L KHCO3, 5 g/L NaHCO3, 10 g/L FeB, 20 g/L FeB, and 30 g/L FeB. Sulfide was low (0.01 to 0.20 mg/L).

Sulfate ranged from 12 to 30 mg/L. Little DOC was detected (2 to 7.7 mg/L); the higher dosages of buffer had the most, 6.8 and 7.7 mg/L. Total arsenic ranged from 0.0042 to 0.084 mg/L with the following treatments below the GA GWPS of 0.010 mg/L: Control, 0.5 g/L Fe2O3, 1.0 g/L Fe2O3, and 2 g/L Fe2O3. Dissolved arsenic ranged from 0.0040 to 0.088 mg/L with the following treatments below the GA GWSP: Control, 0.5 g/L Fe2O3, 1.0 g/L Fe2O3, 2 g/L Fe2O3, and 10 g/L FeB. Total molybdenum ranged from 0.018 to 0.17 mg/L; all were below the GA GWPS

except the 20 and 30 g/L FeB treatments. Dissolved molybdenum ranged from 0.019 to 1.8 mg/L with dissolved molybdenum below the GA GWPS in all treatments except the 20 and 30 g/L FeB treatments. Total iron increased in all treatments; possibly as it leached from the soil. Total magnesium increased with the higher magnesium concentrations in the KHCO3 and NaHCO3 treatments. Total manganese increased in all treatments. Potassium increased with the increasing loadings of potassium bicarbonate and were slightly elevated in the other treatments. Sodium ranged from 19 to 2,200 mg/L with the highest levels in the $NaHCO_3$ treatments.

The Control, 0.5 g/L Fe2O3, 1.0 g/L g/L Fe2O3, 2.0 g/L Fe2O3, and the 10 g/L FeB treatments showed significant reductions in dissolved arsenic with all of these treatments reducing dissolved arsenic below the GA GWPS. The dissolved molybdenum concentrations were below the GA GWPS for molybdenum of 0.10 mg/L for all treatments except the 20 and 30 g/L FeB. The higher loadings of FeB may have created a reducing environment where molybdenum leached from the soil .

3.2.2 Well DGWC-68A Summary. Table 4 has the field parameters and ELLE results for DGWC-68A groundwater. The control treatment received 580 g soil and 738 g groundwater. Potassium bicarbonate or sodium bicarbonate solutions were prepared with between 792 and 798 g groundwater and 1.6 to 8.0 g of buffer. The 580 g soil were added to the bottles and bottles filled with between 722 to 789 g of the solutions. The bicarbonate concentrations ranged from 2.0 to 10 g/L. The ferric oxide was added directly to the bottles and concentrations ranged from 0.5, 1.1. and 2.0 g/L. The Ferroblack H treatments received 8.0 to 22.5 g of the ferrous sulfide suspension resulting in 10.3, 20.6, and 28.3 g/L solutions.

On Day 7, the control pH was 6.6. With 2 g/L potassium bicarbonate, the pH increased to 6.9 and the highest dosage of 10 g/L potassium buffers had a pH of 7.1 on Day 7. On Day 7, the pH for the sodium bicarbonate treatments was 7.1 in all three loadings, from 6.6 to 6.7 for the iron oxide, and from 7.0 to 8.7 for the Ferroblack H treatments. The ORPS were positive and ranged from 5 to 288 mV with the Ferroblack H treatments being lower. DO ranged from 2.1 to 6.3 mg/L with lower DO of 2.1 to 2.7 mg/L in the Ferroblack H treatments. Bicarbonate alkalinity was moderate in the control (180 mg/L as CaCO3) and increased with bicarbonate additions to a maximum of 4,200 mg/L as $CaCO_3$. The hardness ranged from 200 to 710 mg/L as CaCO3. Ferrous iron ranged from 0.65 to 4.0 with levels above 1.0 mg/L in the 5 g/L KHCO3, 10 g/L KHCO3, 2 g/L NaHCO3, 5 g/L NaHCO3, 10 g/L FeB, 20 g/L FeB, and 30 g/L FeB. Sulfide was low (0 to 0.19 mg/L).

Sulfate ranged from 31 to 44 mg/L. Little DOC was detected (1.6 to 11 mg/L); the higher dosage of FeB had the most, 11 mg/L. Total arsenic ranged from 0.00094 to 0.0064 mg/L with all treatments below the GA GWPS of 0.010 mg/L. Dissolved arsenic ranged from 0.0024 to 0.072 mg/L with the following treatments below the GA GWSP: Control, 5 g/L KHCO3, and 2 g/L NaHCO3. Why the dissolved arsenic is higher than total arsenic is unclear. Total molybdenum ranged from 0.28 to 1.1 mg/L; only the 20 g/L FeB was below the GA GWPS. Dissolved molybdenum ranged from 0.28 to 1.2 mg/L with no treatments below the GA GWPS. Dissolved molybdenum increased from the initial characterization sample presumably as molybdenum dissolved from the soil. The lowest dissolved molybdenum concentrations were in the ferric oxide treatments (0.28 to 0.41 mg/L). Total iron increased in all treatments; possibly as it leached from the soil. Total magnesium increased except in the Control and 0.5 g/L to 2 g/L Fe2O3 treatments. Total manganese increased in all treatments. Potassium increased with the increasing loadings of potassium bicarbonate and were slightly elevated in the other treatments. Sodium ranged from 19 to 2,200 mg/L with the highest levels in the $NaHCO_3$ treatments.

The Control, 5 g/L KHCO3, and 2 g/L NaHCO3 treatments showed significant reductions in dissolved arsenic with these treatments reducing dissolved arsenic below the GA GWPS. None of treatments reduced dissolved molybdenum below the GA GWPS with the ferric oxide treatments showing the lowest levels.

3.2.3 Well DGWC-40 Summary. Table 5 has the field parameters and ELLE results for the DGWC-40 groundwater. The control treatment received 580 g soil and 780 g groundwater. Potassium bicarbonate or sodium bicarbonate solutions were prepared with between 792 and 798 g groundwater and 1.6 to 8.0 g of buffer. The 580 g soil were added to the bottles and bottles filled with between 705 to 781 g of the solutions. The bicarbonate concentrations ranged from 2.0 to 10 g/L. The ferric oxide was added directly to the bottles and concentrations ranged from 0.5, 1.0, and 2.1 g/L. The Ferroblack H treatments received 7.5 to 22.5 g of the ferrous sulfide suspension resulting in 9.6, 20.8, and 30.6 g/L solutions.

On Day 7, the control pH was 5.5. With 2 g/L potassium bicarbonate, the pH increased to 6.3 and the highest dosage of 10 g/L potassium buffers had a pH of 7.0 on Day 7. On Day 7, the pH for the sodium bicarbonate treatments ranged from 6.5 to 7.2 in all three loadings, from 5.5 to 6.3 for the iron oxide, and from 6.1 to 6.6 for the Ferroblack H treatments. The ORPS were positive and ranged from 5 to 245 mV with the Ferroblack H treatments being lower. DO ranged from 2.7 to 6.6 mg/L with lower DO of 2.7 to 3.1 mg/L in the Ferroblack H treatments. Bicarbonate alkalinity was low in the control (20 mg/L as CaCO3) and increased with bicarbonate additions to a maximum of 420 mg/L as $CaCO_3$. The hardness ranged from <20 to 420 mg/L as CaCO3. Ferrous iron ranged from 0.05 to 6.6 with levels above 1.0 mg/L in the 5 g/L NaHCO3, 10 g/L NaHCO3, 0.5 g/L Fe2O3, 1.0 g/L Fe2O3, 10 g/L FeB, and 20 g/L FeB treatments. Sulfide was low (0.01 to 0.18 mg/L).

Sulfate ranged from 200 to 260 mg/L. Little DOC was detected (1.4 to 3.6 mg/L. Total cobalt ranged from 0.0033 to 0.085 mg/L with the following treatments below the GA GWPS of 0.032 mg/L: 2 g/L NaHCO3, 5 g/L NaHCO3, 10 g/L NaHCO3, 20 g/L FeB, and 30 g/L FeB. Dissolved cobalt ranged from 0.0022 to 0.082 mg/L with the following treatments below the GA GWPS: 2 g/L KHCO3, 5 g/L KHCO3, 10 g/L KHCO3, 2 g/L NaHCO3, 5 g/L NaHCO3, 10 g/L NaHCO3, 10 g/L FeB, 20 g/L FeB, and 30 g/L FeB. Total iron increased in all treatments; possibly as it leached from the soil. Total magnesium increased except in the Control, 2 g/L NaHCO3, 0.5 g/L Fe2O3, 1.0 g/L Fe2O3, and 2 g/L Fe2O3 treatments. Total manganese increased in all treatments except the NaHCO3 treatments. Potassium increased with the increasing loadings of potassium bicarbonate and were slightly elevated in the other treatments. Sodium ranged from 19 to 2,200 mg/L with the highest levels in the $NaHCO_3$ treatments.

The 2 g/L KHCO3, 5 g/L KHCO3, 10 g/L KHCO3, 2 g/L NaHCO3, 5 g/L NaHCO3, 10 g/L NaHCO3, 10 g/L FeB, 20 g/L FeB, and 30 g/L FeB treatments showed significant reductions in dissolved cobalt with these treatments reducing dissolved cobalt below the GA GWPS.

3.3 AP-1 Conclusions

Table 6 summarizes the percent removals from the initial characterization samples or the Control Day 0 for the dissolved metals of concern across the various groundwaters. Compounds highlighted in green were reduced to below the GA GWPS by the treatments.

Arsenic. In the AP-1 DGWC-69 groundwater and soil, the control, all ferric oxide treatments, and the 10 g/L FeB treatments reduced dissolved arsenic to below the GA GWPS but not the sodium or potassium bicarbonate and high Ferroblack treatments. The AP-1 DGWC-68A treatments with dissolved arsenic below the GA GWPS were Control, 5 g/L KHCO3, 2 g/L NaHCO3, and 20 g/L FeB.

Cobalt. The GA GWPS for cobalt is 0.032 mg/L. All of the potassium and sodium bicarbonate treatments plus the Ferroblack treatments reduced dissolved Co in the AP-1 DGWC-40 groundwater and soil to below the GA GWPS.

Molybdenum. All of the treatments, including the control, were below the GA GWPS for molybdenum in the DGWC-69 groundwater treatments. None of the treatments reduced dissolved molybdenum below the GA GWPS in DGWC-68A. The ferric oxide treatments had the lowest dissolved molybdenum levels of 0.28 to 0.41 mg/L.

Overall Conclusions. The control, 0.5 to 10 g/L ferric oxide, and 10 g/L reduced dissolved arsenic to below the GA GWPS in the DGWC-69 soil groundwater. The control, 5 g/L KHCO3, 2 g/L NaHCO3, and 20 g/L Ferroblack reduced arsenic in the DGWC-68A soil and groundwater below the GA GWPS. All the bicarbonate and Ferroblack treatments reduced dissolved cobalt in the AP-1 DGWC-40 groundwater to below the GA GWPS. The dissolved molybdenum in the DGWC-69 soil and groundwater were below the GA GWPS in all treatments. None of the treatments met the molybdenum GA GWPS in the AP-1 DGWC-68A soil and groundwater treatments although the ferric oxide reduced dissolved molybdenum the most. There was no single treatment that met the GWPS for dissolved arsenic and molybdenum in the DGWC-69 and DGWC-68A groundwater and soils and for cobalt in the DGWC-40.

4.0 PLANT AP-2 and 3/4

4.1 Plant AP-2 and 3/4 Initial Characterization Results

Table 7 has the initial characterization results of the field parameters, Hach tests, metals, DOC, and sulfate results for the two groundwater samples in AP-2 and 3/4.

4.1.1 Well DGWC-48. The control treatment received 1,056 g groundwater. Potassium bicarbonate or sodium bicarbonate solutions were prepared with between 1,047 and 1,059 g groundwater and 2.1 to 10.5 g of buffer. The bicarbonate concentrations ranged from 2.0 to 9.9 g/L. The ferric oxide was added directly to the bottles and concentrations ranged from 0.5, 1.0, and 2.0 g/L. The Ferroblack H treatments received 10.5 to 31.5 g of the ferrous sulfide suspension resulting in 9.9, 19.7, and 29.5 g/L solutions.

The pH ranged from 4.2 to 4.8 with only 20 mg/L bicarbonate alkalinity as CaCO3. There was a positive ORP (265 mV) and moderate dissolved oxygen (4.1 mg/L). The TSS was 5.6 mg/L with a hardness <20 mg/L, 0.56 mg/L ferrous iron, and no sulfide. The pH increased from 4.2 to 7.5 SU with 1 g/L sodium bicarbonate and increased to 7.9 with 10 g/L. The pH increased from 4.3 to 6.6 SU with 1 g/L potassium bicarbonate and to 8.3 with 10 g/L. This groundwater has high 300 mg/L sulfate and <0.5 mg/L DOC. Total arsenic was non-detect and dissolved arsenic was 0.035 mg/L. Total and dissolved Beryllium were 0.0031 mg/L which were below the GA GWPS. Total cobalt was found at 0.040 mg/L and dissolved cobalt at 0.042 mg/L above the GA GWPS of 0.032 mg/L. Lithium was not detected (<0.011 mg/L). No selenium was detected. Lithium and selenium were not monitored in the subsequent testing. The groundwater contained <0.020 mg/L total iron, 19 mg/L total magnesium, 3.3 mg/L total manganese, 5.8 mg/L potassium, and 19 mg/L sodium.

4.1.2 Well DGWC-20. The control treatment received 1,064 g groundwater. Potassium bicarbonate or sodium bicarbonate solutions were prepared with between 1,054 and 1,058 g groundwater and 2.1 to 10.5 g of buffer. The bicarbonate concentrations ranged from 2.0 to 9.9 g/L. The ferric oxide was added directly to the bottles and concentrations ranged from 0.5, 1.0, and 2.0 g/L. The Ferroblack H treatments received 10.5 to 31.5 g of the ferrous sulfide suspension resulting in 9.9, 19.8, and 29.6 g/L solutions.

The pH ranged from 4.5 to 6.3 with little bicarbonate alkalinity of 20 mg/L CaCO3. There was a positive ORP (232 mV) and moderate dissolved oxygen (3.8 mg/L). The TSS was 3.0 mg/L with 20 mg/L hardness, 0.06 mg/L ferrous iron, and no sulfide. The pH increased from 5.5 to 6.9 SU with 1 g/L sodium bicarbonate and increased to 8.0 with 10 g/L. The pH increased from 4.5 to 6.8 SU with 1 g/L potassium bicarbonate and to 7.9 with 10 g/L. This groundwater has moderate 560 mg/L sulfate and 3.4 mg/L DOC. Total arsenic was 0.022 mg/L and dissolved arsenic was <0.16 mg/L. Total beryllium was detected at 0.0082 mg/L and dissolved beryllium at <0.010 mg/L; both exceed the GA GWPS of 0.0040. Total cobalt was detected at 1.2 mg/L and dissolved cobalt at 1.0 mg/L, both exceed the GA GWPS of 0.032 mg/L. Total and dissolved lithium and selenium were not detected. Lithium and selenium were not monitored in the subsequent testing. The groundwater was slightly hard with 0.039 mg/L total iron, 27 mg/L total magnesium, 41 mg/L total manganese, 15 mg/L potassium, and 22 mg/L sodium.

4.2 Plant AP-2 and 3/4 Testing Results

4.2.1 Well DGWC-48 Summary. Table 8 has the field parameters and ELLE results for this groundwater. On Day 0, the control pH was 5.0 and increased to 7.2 for the lowest 2 g/L loading of potassium bicarbonate and to 7.4 for the lowest 2 g/L loading of sodium bicarbonate. The highest dosage of buffers had pHs of 7.9-8.0 on Day 7. The pH in the Fe2O3 treatments on Day 7 ranged 4.8 to 5.1 SU and increased to between 7.0 to 10.7 for the FeB treatments. The ORPS on Day 7 were positive except for the 30 g/L FeB and ranged from -58 to 289 mV. DO ranged from 2.2 to 5.5 mg/L. The total suspended solids ranged from 0 to 86 mg/L with >10 mg/L TSS found in the 5 g/L KHCO3, 1.0 g/L Fe2O3, 2.0 g/L Fe2O3, 10 g/L FeB, and 30 g/L FeB. Bicarbonate alkalinity was low in the control, Fe2O3, and FeB treatments (<20-80 mg/L CaCO3) and increased with bicarbonate additions. The hardness ranged from 20 to 232 mg/L with higher readings at the higher buffer loadings. Only the control, 10 g/L sodium bicarbonate, and the FeB treatments had mor than 0.15 mg/L ferrous iron. Sulfide was low (0.01 to 0.10 mg/L).

Sulfate ranged from 310 to 340 mg/L. Little DOC was detected (0.56 to 19 mg/L); the highest dosage of buffer had the most, 6.3 and 19 mg/L. Total arsenic were not detected except in the treatments with 10 g/L KHCO3, 5 g/L NaHCO3, 1.0 g/L Fe2O3, 2.0 g/L Fe2O3, and the 30 g/L FeB. Total As was below the GA GWPS. Dissolved As were above the GA GWPS except in the 2 g/L NaHCO3, 2 g/L Fe2O3, 10 g/L FeB, and 20 g/L FeB treatments. It is not clear why dissolved arsenic would be higher than total arsenic. Total beryllium ranged from 0.0050 to 0.0072 mg/L; all samples were above the GA GWPS of 0.004 mg/L except the 10 g/L KHC03, 5 g/L NaHCO3, 1- g/L NaHCO3, and all three of the FeB treatments. Dissolved beryllium ranged from <0.00012 to 0.0081 mg/L with 2-10 g/L potassium bicarbonate, 5-10 g/L sodium bicarbonate, and the 10 to 30 g/L FeB treatments below the GA GWPS. Total cobalt was moderate ranging from 0.031 to 0.34 mg/L with only the 30 g/L FeB treatment below the GA GWPS. Dissolved cobalt ranged from 0.00022 to 0.36 mg/L with the 10-30 g/L FeB below the GA GWPS. Total iron ranged from 0.027 to 110 g/L (2 g/L Fe2O3). Total magnesium did not change much ranging from 1.3 to 16 mg/L. Total manganese ranged from 0.38 to 14 mg/L and was reduced by >50% only in the 10 g/L

NaHCO3 treatment. Potassium and sodium increased with the increasing loadings of potassium and sodium bicarbonate.

The only treatments that reduced dissolved arsenic to below the GA GWPS were the 2 g/L NaHCO3, 2.0 g/L Fe2O3, 10 g/L FeB, and 20 g/L FeB. The 2-10 g/L of the potassium bicarbonate, 5-10 g/L sodium bicarbonate, and 10, 20, and 30 g/L FeB treatments reduced dissolved beryllium to below the GA GWPS. Only the 10, 20, and 30 g/L FeB treatments resulted in decreases in dissolved cobalt to below the GA GWPS.

4.2.2 Well DGWC-20 Summary. Table 9 has the field parameters and ELLE results for this groundwater.

The control pH at Day 0 was 3.9 SU and increased to 7.1 for the lowest loading of potassium bicarbonate and to 7.0 for the lowest loading of sodium bicarbonate. The highest dosage of buffers had pHs of7.7 on Day 7. The ORPS were positive and ranged from 78 to 410 mV with the lowest ORP in the 30 g/L FeB treatment. DO ranged from 2.6 to 6.3 mg/L. The total suspended solids ranged from 0.8 to 520 mg/L. The treatments with 10 g/L KHCO3, 10 g/L NaHCO3, 2 g/L Fe2O3, 10 g/L FeB, and 30 g/L FeB had elevated TSS above 10 mg/L. Bicarbonate alkalinity was low in the control and increased with bicarbonate additions. The hardness ranged from <20 to 350 mg/L. Little ferrous iron was detected (0.03 to 0.12 mg/L). Sulfide was low (<0.01 to 0.01 mg/L).

Sulfate ranged from 470 to 580 mg/L. Little DOC was detected; the highest dosage of KHCO3 buffer had the most, 6.8 mg/L. Total arsenic ranged from 0.0015 to 0.025 mg/L with the 5 g/L NaHCO3 and 10, 20, and 30 g/L FeB treatment having total arsenic below the GA GWPS. Dissolved arsenic ranged from 0.0014 to 0.044 mg/L with the 2 and 5 g/L KHCO3, 2, 5, and 10 g/L NaHCO3, and the 10, 20, and 30 g/L FeB treatments having dissolved arsenic below the GA GWPS. Total beryllium ranged from 0.00057 to 0.013 mg/L; the 5 g/L NaHCO3 and 10, 20, and 30 g/L FeB treatments were below the GA GWPS. Dissolved beryllium ranged from 0.00023 to 0.0091 mg/L with all KHCO3, NaHCO3, and FeB treatments below the GA GWPS. Total cobalt ranged from 0.12 to 1.2 mg/L but none of the treatments reached the GA GWPS. Dissolved cobalt ranged from <0.00012 to 1.1 mg/L and only the 20 and 30 g/L FeB treatments reached the GA GWPS. Total iron increased in many treatments especially for the Fe2O3 and FeB treatments. Total magnesium ranged from 3.3 to 26.0 mg/L with the FeB treatments having the least magnesium. Total manganese ranged from 4.2 to 45 mg/L. Potassium and sodium increased with the increasing loadings of potassium and sodium bicarbonate.,

The 2-10 g/L of potassium bicarbonate, 2-10 g/L sodium bicarbonate, and 10-30 g/L FeB treatments reduced dissolved arsenic and dissolved beryllium to the GA GWPS. Only the 20 and 30 g/L FeB reduced the dissolved cobalt to below the GA GWPS.

4.3 AP-2 and 3/4 Conclusions

Table 10 summarizes the percent removals from the initial characterization samples or the Control Day 0 for the dissolved metals of concern across the various treatments and groundwaters. Compounds highlighted in green were reduced to below the GA GWPS by the treatments.

Arsenic. The following treatments reduced dissolved arsenic in AP-2 and 3/4 well DGWC-48 to below the GA GWPS: 2 g/L NaHCO3, 2 g/L Fe2O3, 10 g/L FeB, and 20 g/L FeB. Dissolved As in well DGWC-20 was reduced to below the GA GWPS in all potassium and sodium bicarbonate and Ferroblack treatments.

Beryllium. In the AP-2 and 3/4 DGWC-48 and 20 groundwaters, most of the potassium and sodium bicarbonate and the Ferroblack treatments reduced dissolved Be levels to below the GA GWPS but the Fe2O3 treatments did not.

Cobalt. The GA GWPS for cobalt is 0.032 mg/L. The higher Ferroblack treatments reduced cobalt to below the GA GWPS in both wells.

Overall Conclusions. Addition of relatively high dosages of potassium or sodium bicarbonate buffers were generally able to reach the GA GWPS for arsenic and beryllium but not cobalt. The Ferroblack treatments were able to reduce the arsenic, beryllium, and cobalt to below the GA GWPS.

Please let me know if you have any questions about this draft report.

Sincerely,
TERRA SYSTEMS, INC.

Michael D Lee, PhD.

Michael D. Lee, Ph.D.
Vice-President Research and Development

Table 1
Estimated Sample Volumes and Preservatives

Analysis	Matrix	Volume mL per bottle	Preservative
Total As, Be, Co, Mo, Se, Fe, K, Mn, Mg, and Na (metals based upon contaminants at each site)	Aqueous	200	HNO_3
Total Li (AP 234 only)	Aqueous	200	HNO_3
Filtered As, Be, Co, Mo, and Se (metals based upon contaminants at each site)	Aqueous	200	HNO_3
Filtered Li (AP 234 only)	Aqueous	200	HNO_3
DOC	Aqueous	45	H_3PO_4
Sulfate	Aqueous	50	None
Total		895	

Table 2
Plant McDonough AP-1 Initial Characterization Field and Hach Parameters

Well		GA GWPS	AP-1 DGWC-69	AP-1 DGWC-68A	AP-1 DGWC-40
pH	SU		7.4	6.8	5.3
ORP	mV		244	215	240
DO	mg/L		6.1	3.0	4.2
TSS	mg/L		6.6	0	4.3
Bicarbonate Alkalinity as CaCO3	mg/L		60	180	20
Hardness as CaCO3	mg/L		60	240	20
Ferrous Iron	mg/L		0.08	0.01	0.03
Sulfide	mg/L		0.01	0	0.01
Soil pH	SU		6.7	7.2	5.6
Soil Density	g/cm^3		1.56	1.58	1.69
Soil Field Holding Capacity	g/g		0.15	0.29	0.23
Soil Dry Weight	%		93.0	88.3	84.5
Sodium Hydroxide Titrations					
Groundwater	g		150.1	150	150.1
Soil	g		100	100	100
g/L NaHCO3	pH				
0			7.3	6.8	5.2
1			7.5	7.1	6.4
2			7.7	7.3	6.8
5			7.9	7.7	7.2
10			8.1	7.8	7.4
Potassium Hydroxide Titrations					
Groundwater	g		151.8	150	153.6
Soil	g		100	100	100
g/L KHCO3					
0			6.3	6.7	4.4
1			7.3	7.1	5.8
2			7.5	7.2	6.2
5			7.7	7.4	6.8
10			8.0	7.6	7.3
Sulfate	mg/L		10	40	230
Dissolved Organic Carbon	mg/L		0.59	0.71	<0.5
Total Arsenic	mg/L	0.010	**0.026**	<0.00068	
Dissolved Arsenic	mg/L	0.010	**0.052**	**0.014**	
Total Cobalt	mg/L	0.032			**0.040**
Dissolved Cobalt	mg/L	0.032			**0.039**
Total Molybdenum	mg/L	0.10	0.0055	**0.20**	
Dissolved Molybdenum	mg/L	0.10	0.0053	**0.20**	
Total Iron	mg/L		<0.020	0.029	<0.020
Total Magnesium	mg/L		2.6	18	19
Total Manganese	mg/L		0.0036	0.072	3.3
Total Potassium	mg/L		2.4	3.8	5.8
Total Sodium	mg/L		9.7	9.6	19
Soils					
Total Arsenic	mg/kg		3.1	1.0	
Total Cobalt	mg/kg				13
Total Molybdenum	mg/kg		0.68	7.4	
Total Iron	mg/kg		9600	35000	49000
Total Magnesium	mg/kg		3000	11000	9500
Total Manganese	mg/kg		250	530	460
Total Potassium	mg/kg		3900	12000	13000
Total Sodium	mg/kg		96	110	40
Moisture	%		19.7	12.9	14.9

0.010 GA GWPS = Georgia Groundwater Performance Standard

Table 3
AP-1 DGWC-69 Treatability Results

		GA GWPS	IC	Control	2 g/L KHCO3	5 g/L KHCO3	10 g/L KHCO3	2 g/L NaHCO3	5 g/L NaHCO3	10 g/L NaHCO3	0.5 g/L Fe2O3	1.0 g/L Fe2O3	2.0 g/L Fe2O3	10 g/L FeB	20 g/L FeB	30 g/L FeB
Soil	g			417	580	580	580	580	580	580	580	580	580	580	580	580
Groundwater	g			798.4	798.4	796	792	798.4	796	811.7						
Product	g			0	1.6	4.0	8	1.6	4	8	0.375	0.752	1.6	8	15	22.5
Solution	g				750.2	749.2	766.2	750.0	754	811.7	800.6	810.4	807.1	747.7	724.5	725.3
Product Concentration	g/L			0	2.0	5.0	10.0	2.0	5.0	9.8	0.5	0.9	2.0	10.6	20.3	30.1
Day				7	7	7	7	7	7	7	7	7	7	7	7	7
pH	SU		7.4	6.5	7.2	7.5	7.7	7.4	8.0	7.8	6.6	6.4	6.7	8.0	9.4	9.6
ORP	mV		244	194	198	192	175	168	150	181	160	188	191	48	56	113
DO	mg/L		6.1	6.0	6.9	6.5	4.6	6.0	6.6	6.2	6.1	6.2	6.4	1.9	2.6	4.6
TSS	mg/L		6.6													
Bicarbonate Alkalinity as CaCO3	mg/L		60	80	700	2100	4100	1200	4200	5200	80	60	60	100	120	120
Hardness as CaCO3	mg/L		60	60	220	460	230	100	230	230	110	110	110	110	60	60
Ferrous Iron	mg/L		0.08	0.75	2.75	1.5	2.05	0.65	3.35	0.95	0.9	0.85	2.3	1.65	2.0	1.5
Sulfide	mg/L		0.01	0.06	0.12	0.2	0.12	0.03	0.01	0.01	0.073	0.05	0.07	0.04	0.05	0.01
ELLE Results																
Sulfate	mg/L		10	12	15	15	16	16	16	16	14	16	15	20	22	30
Dissolved Organic Carbon	mg/L		0.59	2.7	4.2	5.5	6.8	4.0	4.9	7.7	2.6	2.8	2.4	4.3	2.0	5.0
Total Arsenic	mg/L	0.010	**0.026**	0.0067	**0.020**	**0.032**	**0.047**	**0.026**	**0.056**	**0.084**	0.0058	0.0046	0.0042	**0.012**	**0.011**	**0.027**
Dissolved Arsenic	mg/L	0.010	**0.052**	0.0061	**0.015**	**0.035**	**0.047**	**0.036**	**0.055**	**0.088**	0.0063	0.0045	0.0040	0.0077	**0.012**	**0.030**
Total Molybdenum	mg/L	0.10	0.0055	0.037	0.070	0.084	0.089	0.079	0.087	0.092	0.030	0.026	0.018	0.091	**0.13**	**0.17**
Dissolved Molybdenum	mg/L	0.10	0.0053	0.037	0.069	0.083	0.093	0.089	0.097	0.096	0.034	0.027	0.019	0.089	**0.13**	**0.18**
Total Iron	mg/L		<0.02	0.42	5.4	2.0	0.57	2.7	3.7	0.81	0.50	0.74	0.63	7.6	1.8	14
Total Magnesium	mg/L		2.6	1.2	18	20	20	7.7	12	13	3.3	3.6	3.5	7.2	3.4	4.0
Total Manganese	mg/L		0.0036	1.2	2.6	2.0	1.2	1.2	1.5	0.83	0.94	1.0	0.98	0.87	0.17	0.40
Total Potassium	mg/L		2.4	5.8	470	1700	3100	9.7	12	15	5.3	6.3	6.0	9.6	8.1	13
Total Sodium	mg/L		9.7	19	28	31	34	550	1100	2200	19	21	21	400	770	1400

0.010 GA GWPS = Georgia Groundwater Performance Standard

0.039 J value. Compound detected above method detection limit but below method calibration limit.

28 Compound detected in blank

Table 4
AP-1 DGWC-68A Treatability Results

		GA GWPS	IC	Control	2 g/L KHCO3	5 g/L KHCO3	10 g/L KHCO3	2 g/L NaHCO3	5 g/L NaHCO3	10 g/L NaHCO3	0.5 g/L Fe2O3	1.0 g/L Fe2O3	2.0 g/L Fe2O3	10 g/L FeS	20 g/L FeS	30 g/L FeS
Soil	g			580	580	580	580	580	580	580	580	580	580	580	580	580
Groundwater	g			737.9	798.4	796	792	798.4	796	792						
Product	g			0	1.6	4.0	8	1.6	4	8	0.375	0.8	1.5	7.5	15	22.5
Solution	g				721.9	732.4	789	738.6	738.3	786.7	785.2	735.8	740.2	721.6	713.1	771.4
Product Concentration	g/L			0	2.0	5.0	10.0	2.0	5.0	10.0	0.5	1.1	2.0	10.3	20.6	28.3
Day				7	7	7	7	7	7	7	7	7	7	7	7	7
pH	SU		6.8	6.6	6.9	6.8	7.1	7.1	7.1	7.1	6.7	6.6	6.6	7.0	8.7	7.9
ORP	mV		215	228	213	219	215	201	169	143	201	185	183	123	5	22
DO	mg/L		3.0	5.9	5.4	5.1	4.9	6.0	5.9	4.6	5.3	5.6	6.3	2.3	2.7	2.1
TSS	mg/L		0													
Bicarbonate Alkalinity as CaCO3	mg/L		180	180	700	1600	4200	930	1400	4100	350	230	230	230	350	230
Hardness as CaCO3	mg/L		240	200	570	710	470	340	470	340	230	230	230	340	460	460
Ferrous Iron	mg/L		0.01	0.9	0.9	1.65	4.4	3.15	3.85	2.15	0.75	0.65	1.5	2.25	1.75	3.00
Sulfide	mg/L		0	0.11	0.13	0.19	<0.02	<0.01	0.01	<0.01	0	<0.02	0.07	0.09	<0.01	<0.01
ELLE Results																
Sulfate	mg/L		40	31	32	35	36	38	41	42	33	35	36	44	44	38
Dissolved Organic Carbon	mg/L		0.71	1.8	2.1	2.7	3.3	2.5	3.9	4.5	3.1	1.6	1.7	1.7	1.9	11
Total Arsenic	mg/L	0.010	<0.00068	0.0019	0.0022	0.0032	0.0061	0.0034	0.0045	0.0064	0.0020	0.0020	0.0012	0.0014	0.00094	0.0018
Dissolved Arsenic	mg/L	0.010	**0.014**	0.0033	**0.058**	0.0024	**0.072**	0.0030	**0.066**	**0.030**	**0.047**	**0.023**	**0.016**	**0.013**	0.0052	**0.012**
Total Molybdenum	mg/L	0.10	**0.20**	**0.40**	**0.66**	**0.65**	**0.67**	**0.85**	**1.0**	**1.1**	**0.38**	**0.34**	**0.28**	**0.62**	**0.85**	**0.88**
Dissolved Molybdenum	mg/L	0.10	**0.20**	**0.39**	**0.67**	**0.67**	**0.69**	**0.88**	**1.0**	**1.2**	**0.41**	**0.35**	**0.28**	**0.68**	**0.84**	**0.86**
Total Iron	mg/L		0.029	0.69	0.59	0.57	13	1.7	1.0	1.8	0.71	4.3	1.4	6.4	4.1	1.8
Total Magnesium	mg/L		18	16	44	55	70	25	34	40	15	16	16	25	35	33
Total Manganese	mg/L		0.072	1.1	1.1	0.18	0.62	0.80	0.41	0.16	0.96	1.0	0.83	6.0	5.4	4.5
Total Potassium	mg/L		3.8	6.0	170	1000	2800	9.4	11	14	6.0	7.4	5.8	9.4	10	11
Total Sodium	mg/L		9.6	12	17	19	23	380	1100	16000	11	11	11	310	640	1100

0.010 GA GWPS = Georgia Groundwater Performance Standard

0.039 J value. Compound detected above method detection limit but below method calibration limit.

28 Compound detected in blank

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Phone: 302-798-9553 or Visit www.terrasystems.net

Table 5
AP-1 DGWC-40 Treatability Results

		GA GWPS	IC	Control	2 g/L KHCO3	5 g/L KHCO3	10 g/L KHCO3	2 g/L NaHCO3	5 g/L NaHCO3	10 g/L NaHCO3	0.5 g/L Fe2O3	1.0 g/L Fe2O3	2.0 g/L Fe2O3	10 g/L FeS	20 g/L FeS	30 g/L FeS
Soil	g			580	580	580	580	580	580	580	580	580	580	580	580	580
Groundwater	g			779.5	798.4	796	792	798.4	796	792						
Product	g			0	1.6	4.0	8	1.6	4	8	0.375	0.75	1.5	7.5	15	22.5
Solution	g				713.5	781.1	779.9	719.3	722	740	713.7	729.2	721.4	774	705.3	713.8
Product Concentration	g/L			0	2.0	5.0	10.0	2.0	5.0	10.0	0.5	1.0	2.1	9.6	20.8	30.6
Day				7	7	7	7	7	7	7	7	7	7	7	7	7
pH	SU		5.3	5.5	6.3	6.7	7.0	6.5	6.9	7.2	6.2	6.3	5.5	6.1	6.4	6.6
ORP	mV		240	217	232	224	226	161	153	156	164	245	211	56	21	5
DO	mg/L		4.2	5.6	5.7	5.3	5.1	5.8	5.4	5.2	6.1	6.1	6.6	2.9	3.1	2.7
TSS	mg/L		4.3													
Bicarbonate Alkalinity as CaCO3	mg/L		20	20	480	1200	2800	700	2800	4100	40	20	20	40	60	60
Hardness as CaCO3	mg/L		20	<20	<20	60	420	200	340	230	<20	20	40	20	<20	<20
Ferrous Iron	mg/L		0.03	0.35	0.05	0.25	0.7	0.85	1.08	2.0	1.15	1.25	<0.05	1.75	6.6	0.90
Sulfide	mg/L		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	<0.01	<0.01	0.18	0.02
ELLE Results																
Sulfate	mg/L		230	200	220	240	250	250	260	250	210	200	200	220	220	230
Dissolved Organic Carbon	mg/L		<0.5	1.4	3.6	1.9	2.4	1.6	3.5	2.3	1.6	1.4	1.4	1.6	1.5	1.7
Total Cobalt	mg/L	0.032	**0.040**	**0.085**	0.018	0.011	0.012	0.0073	0.0044	0.0033	**0.073**	**0.070**	**0.074**	0.013	0.0053	0.0046
Dissolved Cobalt	mg/L	0.032	**0.039**	**0.082**	0.015	0.0092	0.0087	0.0058	0.0029	0.0022	**0.071**	**0.069**	**0.073**	0.012	0.0061	0.0041
Total Iron	mg/L		<0.020	1.0	2.1	0.83	3.0	1.1	1.5	1.4	3.0	1.2	1.5	3.0	3.3	3.5
Total Magnesium	mg/L		19	18	37	56	73	18	29	44	19	18	18	25	29	31
Total Manganese	mg/L		3.3	4.7	5.4	5.6	4.9	2.5	2.4	2.3	4.4	4.2	4.1	9.6	8.0	6.3
Total Potassium	mg/L		5.8	13	290	1100	2500	12	15	19	13	12	11	13	15	18
Total Sodium	mg/L		19	21	29	27	35	410	980	2200	20	21	19	320	710	1100

0.010 GA GWPS = Georgia Groundwater Performance Standard

0.039 J value. Compound detected above method detection limit but below method calibration limit.

28 Compound detected in blank

Table 6
AP-1 Percent Removal from Initial Characterization for Dissolved Metals

Soil + GW	Metal	GA GWPS mg/L		Control	2 g/L KHCO3	5 g/L KHCO3	10 g/L KHCO3	2 g/L NaHCO3	5 g/L NaHCO3	10 g/L NaHCO3	0.5 g/L Fe2O3	1.0 g/L Fe2O3	2.0 g/L Fe2O3	10 g/L FeS	20 g/L FeS	30 g/L FeS
AP1 DGWC-69	Dis As	0.010	% Rem	88.3	71.2	32.7	9.6	30.8	-5.8	-69.2	87.9	91.3	92.3	85.2	76.9	42.3
	Dis Mo	0.10	% Rem	-598.1	-1201.9	-1466.0	-1654.7	-1579.2	-1730.2	-1711.3	-541.5	-409.4	-258.5	-1579.2	-2352.8	-3296.2
AP1 DGWC-68A	Dis As	0.010	% Rem	76.4	-314.3	82.9	-414.3	78.6	-371.4	-114.3	-235.7	-64.3	-14.3	7.1	62.9	14.3
	Dis Mo	0.10	% Rem	-95.0	-235.0	-235.0	-245.0	-340.0	-235.0	-500.0	-90.0	-75.0	-40.0	-240.0	-320.0	-330.0
AP1 DGWC-40	Dis Co	0.032	% Rem	-110.3	61.5	76.4	77.7	85.1	92.6	94.4	-82.1	-76.9	-87.2	69.2	84.4	89.5

Table 7
Plant McDonough AP-2 and 3/4 Initial Characterization Field and Hach Parameters

Well		GA GWPS	AP-2 and 3/4 DGWC-48	AP-2 and 3/4 DGWC-20
GW pH	SU		4.8	6.3
GW ORP	mV		265	232
GW DO	mg/L		4.1	3.8
GW TSS	mg/L		5.6	3.0
GW Bicarbonate Alkalinity	mg/L		20	20
GW Hardness as CaCO3	mg/L		<20	20
GW Ferrous Iron	mg/L		0.56	0.06
GW Sulfide	mg/L		0	0
Sodium Hydroxide Titrations				
Groundwater	g		100	100
g/L NaHCO3	pH			
0			4.2	5.5
1			7.1	6.9
2			7.5	7.3
5			7.9	7.8
10			7.9	8.0
Potassium Hydroxide Titrations				
Groundwater	g		100	100
g/L KHCO3				
0			4.3	4.5
1			6.6	6.8
2			7.2	7.2
5			7.8	7.7
10			8.3	7.9
ELLE Results				
Sulfate	mg/L		330	560
Dissolved Organic Carbon	mg/L		<0.5	3.4
Total Arsenic	mg/L	0.010	<0.00068	**0.022**
Dissolved Arsenic	mg/L	0.010	**0.035**	**<0.16**
Total Beryllium	mg/L	0.0040	0.0031	**0.0082**
Dissolved Beryllium	mg/L	0.0040	0.0031	**<0.010**
Total Cobalt	mg/L	0.032	**0.040**	**1.20**
Dissolved Cobalt	mg/L	0.032	**0.042**	**1.0**
Total Lithium	mg/L	0.040	<0.011	<0.011
Dissolved Lithium	mg/L	0.040	<0.011	<0.011
Total Selenium	mg/L	0.050	<0.00028	<0.00028
Dissolved Selenium	mg/L	0.050	<0.016	<0.16
Total Iron	mg/L		<0.020	0.039
Total Magnesium	mg/L		19	27
Total Manganese	mg/L		3.3	41
Total Potassium	mg/L		5.8	15
Total Sodium	mg/L		19	22

0.010 GA GWPS = Georgia Groundwater Performance Standard

Table 8
AP-2 and 3/4 DGWC-48 Treatability Results

		GA GWPS	IC	Control	2 g/L KHCO3	5 g/L KHCO3	10 g/L KHCO3	2 g/L NaHCO3	5 g/L NaHCO3	10 g/L NaHCO3	0.5 g/L Fe2O3	1.0 g/L Fe2O3	2.0 g/L Fe2O3	10 g/L FeB	20 g/L FeB	30 g/L FeB
Groundwater	g			1056.4	1052.7	1059.4	1047.1	1058.7	1057.4	1058.9	1056.3	1054.6	1053.4	1047	1042.6	1034.5
Product	g			0	2.1	5.25	10.5	2.1	5.25	10.5	0.525	1.05	2.1	10.5	21	31.5
Product Concentration	g/L			0	2.0	4.9	9.9	2.0	4.9	9.8	0.5	1.0	2.0	9.9	19.7	29.5
Day				7	7	7	7	7	7	7	7	7	7	7	7	7
pH	SU		4.8	5.0	7.2	7.7	8.0	7.4	7.8	7.9	5.1	4.8	5.1	7.0	8.7	10.7
ORP	mV		265	289	251	241	235	186	158	150	224	259	254	219	15	-58
DO	mg/L		4.1	4.4	4.8	4.8	4.9	4.7	4.8	5.5	5.0	4.8	4.7	2.2	2.8	2.9
TSS	mg/L		5.6	2.8	1.9	14.1	5.9	7.2	0	1.5	0	22	11.8	86	6.2	18.4
Bicarbonate Alkalinity as CaCO3	mg/L		20	<20	1000	2700	6800	1300	3200	8000	20	20	20	80	60	140
Hardness as CaCO3	mg/L		<20	20	20	120	232	<20	58	120	20	20	20	40	80	40
Ferrous Iron	mg/L		0.56	0.05	0.05	<0.05	<0.05	<0.05	0.05	0.15	0.25	0.05	<0.05	0.55	1.35	1.95
Sulfide	mg/L		0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.1
ELLE Results																
Sulfate	mg/L		330	310	330	320	330	330	330	340	330	330	330	330	310	310
Dissolved Organic Carbon	mg/L		<0.5	1.1	2.0	2.8	19	2.1	3.8	6.3	1.5	1.3	1.7	0.56	1.7	2.3
Total Arsenic	mg/L	0.010	<0.00068	<0.00068	<0.00068	<0.00068	0.0024	<0.00068	0.00078	<0.00068	<0.00068	0.0014	0.0031	<0.00068	<0.00068	0.00070
Dissolved Arsenic	mg/L	0.010	**0.035**	**0.13**	**0.15**	**0.017**	**0.042**	0.0088	**0.047**	**0.025**	**0.042**	**0.030**	0.0095	0.0093	0.0079	**0.014**
Total Beryllium	mg/L	0.0040	0.0031	**0.0069**	**0.0047**	**0.0054**	0.0024	**0.0066**	0.0037	0.0014	**0.0072**	**0.0066**	**0.0052**	0.0016	0.00089	0.00050
Dissolved Beryllium	mg/L	0.0040	0.0031	**0.0077**	0.0020	0.0032	0.0017	**0.0040**	0.0030	0.0012	**0.0081**	**0.0070**	**0.0059**	<0.00012	<0.00012	<0.00012
Total Cobalt	mg/L	0.032	**0.040**	**0.34**	**0.32**	**0.31**	**0.17**	**0.34**	**0.30**	**0.059**	**0.33**	**0.34**	**0.34**	**0.081**	**0.053**	0.031
Dissolved Cobalt	mg/L	0.032	**0.042**	**0.36**	**0.31**	**0.30**	**0.16**	**0.33**	**0.28**	**0.058**	**0.35**	**0.34**	**0.33**	0.0015	0.00041	0.00022
Total Lithium	mg/L	0.040	<0.011													
Dissolved Lithium	mg/L	0.040	<0.011													
Total Selenium	mg/L	0.050	<0.00028													
Dissolved Selenium	mg/L	0.050	<0.016													
Total Iron	mg/L		<0.020	0.19	0.17	0.19	0.10	0.15	0.15	0.027	5.1	33	110	87	95	81
Total Magnesium	mg/L		19	15	15	15	15	15	14	14	15	16	16	13	4.3	1.3
Total Manganese	mg/L		3.3	12	12	10	4.1	12	11	0.38	12	11	14	5.2	2.5	1.8
Total Potassium	mg/L		5.8	14	760	1900	3800	14	13	13	14	14	14	14	14	14
Total Potassium	mg/L		5.8	14	760	1900	3800	14	13	13	14	14	14	14	14	14
Total Sodium	mg/L		19	22	24	27	30	540	1400	2600	22	22	24	450	890	1500

0.010 GA GWPS = Georgia Groundwater Performance Standard

0.039 J value. Compound detected above method detection limit but below method calibration limit.

Table 9
AP-2 and 3/4 DGWC-20 Treatability Results

			IC	Control	2 g/L KHCO3	5 g/L KHCO3	10 g/L KHCO3	2 g/L NaHCO3	5 g/L NaHCO3	10 g/L NaHCO3	0.5 g/L Fe2O3	1.0 g/L Fe2O3	2.0 g/L Fe2O3	10 g/L FeS	20 g/L FeS	30 g/L FeS
Groundwater	g			1064.3	1059.3	1057.4	1058.5	1058	1054.8	1053.5	1068.9	1061.1	1054.7	1051.1	1040.9	1032.3
Product	g			0	2.1	5.25	10.5	2.1	5.25	10.5	0.525	1.05	2.1	10.5	21	31.5
Product Concentration	g/L	GA GWPS		0	2.0	4.9	9.8	2.0	5.0	9.9	0.5	1.0	2.0	9.9	19.8	29.6
Day				7	7	7	7	7	7	7	7	7	7	7	7	7
pH	SU		6.3	3.9	7.1	7.4	7.7	7.0	7.4	7.7	5.1	3.4	2.8	5.3	7.9	8.6
ORP	mV		232	275	215	219	223	189	153	145	210	347	410	204	139	78
DO	mg/L		3.8	5.5	5.6	5.8	6.3	5.4	5.8	5.5	5.4	5.4	5.6	3.3	2.6	3.0
TSS	mg/L		3.0	7.4	2.8	6.3	52	0.8	4.1	14.1	13.2	6.3	21.9	13.6	6.8	14.8
Bicarbonate Alkalinity as CaCO3	mg/L		20	20	1100	2300	5700	1100	3400	6800	20	20	20	80	100	80
Hardness as CaCO3	mg/L		20	<20	<20	350	230	60	350	230	<20	20	20	<20	20	160
Ferrous Iron	mg/L		0.06	0.08	<0.03	<0.03	0.12	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	<0.03
Sulfide	mg/L		0	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
ELLE Results																
Sulfate	mg/L		560	530	540	540	540	540	550	540	550	470	480	490	520	580
Dissolved Organic Carbon	mg/L		3.4	1.5	1.8	3.4	6.8	2.3	2.5	2.5	0.99	0.85	1.0	1.2	1.5	1.7
Total Arsenic	mg/L	0.010	**0.022**	**0.019**	**0.014**	**0.022**	**0.025**	**0.013**	0.0015	**0.012**	**0.019**	**0.021**	**0.021**	0.0057	0.0032	0.0028
Dissolved Arsenic	mg/L	0.010	**<0.16**	**0.044**	0.0039	0.0082	**0.010**	0.0038	0.0054	0.0068	**0.025**	**0.028**	**0.025**	0.0038	0.0023	0.0014
Total Beryllium	mg/L	0.0040	**0.0082**	**0.0071**	**0.0043**	**0.013**	**0.010**	**0.0045**	0.00057	**0.0048**	**0.0084**	**0.0068**	**0.0071**	0.0019	0.00086	0.00059
Dissolved Beryllium	mg/L	0.0040	**<0.010**	**0.0080**	0.00040	0.00059	0.00034	0.00033	0.00023	0.00035	**0.0078**	**0.0080**	**0.0091**	<0.00012	<0.00012	<0.00012
Total Cobalt	mg/L	0.032	**1.20**	**1.0**	**1.0**	**0.56**	**0.60**	**1.0**	**0.36**	**0.32**	**1.1**	**1.2**	**1.2**	**0.26**	**0.15**	**0.12**
Dissolved Cobalt	mg/L	0.032	**1.0**	**1.1**	**0.94**	**0.49**	**0.27**	**0.97**	**0.36**	**0.25**	**1.1**	**1.0**	**1.1**	**0.039**	0.0020	0.00045
Total Lithium	mg/L	0.040	<0.011													
Dissolved Lithium	mg/L	0.040	<0.011													
Total Selenium	mg/L	0.050	<0.00028													
Dissolved Selenium	mg/L	0.050	<0.16													
Total Iron	mg/L		0.039	0.048	0.45	0.058	1.4	0.073	0.064	0.15	0.55	15	58	90	85	100
Total Magnesium	mg/L		27	26	25	25	25	24	24	26	25	25	25	23	15	3.3
Total Manganese	mg/L		41	37	39	7.7	17	38	4.2	4.3	40	45	44	31	7.3	4.5
Total Potassium	mg/L		15	15	770	1800	3800	15	15	14	15	15	15	15	15	15
Total Sodium	mg/L		22	22	24	26	29	500	1200	2700	22	22	22	460	950	1500

0.010 GA GWPS = Georgia Groundwater Performance Standard

0.039 J value. Compound detected above method detection limit but below method calibration limit.

Table 10
AP-2 and 3/4 Percent Removal from Initial Characterization for Dissolved Metals

GW	Metal	GA GWPS mg/L		Control	2 g/L KHCO3	5 g/L KHCO3	10 g/L KHCO3	2 g/L NaHCO3	5 g/L NaHCO3	10 g/L NaHCO3	0.5 g/L Fe2O3	1.0 g/L Fe2O3	2.0 g/L Fe2O3	10 g/L FeS	20 g/L FeS	30 g/L FeS
AP234 DGWC-48	Dis As	0.010	% Rem	-271.4	-328.6	51.4	-20.0	74.9	-34.3	28.6	-20.0	14.3	72.9	73.4	77.4	60.0
	Dis Be	0.0040	% Rem	-148.4	35.5	-3.2	45.2	-29.0	3.2	61.3	-161.3	-125.8	-90.3	>96.2	>96.2	>96.2
	Dis Co	0.032	% Rem	-757.1	-638.1	-614.3	-281.0	-685.7	-566.7	-38.1	-733.3	-709.5	-685.7	96.4	99.0	99.5
AP234 DGWC-20	Dis As	0.010	% Rem	**0.0**	**91.1**	**81.4**	**77.3**	**91.4**	**87.7**	**84.5**	**43.2**	**36.4**	**43.2**	**91.4**	**94.8**	**96.8**
	Dis Be	0.0040	% Rem	**0.0**	**95.0**	**92.6**	**95.8**	**95.9**	**97.1**	**95.6**	**2.5**	**0.0**	**-13.8**	**>98.5**	**>98.5**	**>98.5**
	Dis Co	0.032	% Rem	-10.0	6.0	51.0	73.0	3.0	64.0	75.0	-10.0	0.0	-10.0	96.1	99.8	99.96

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