



**REPORT**

# 2022 Annual Groundwater Monitoring and Corrective Action Report

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

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## Certification

This *2022 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 Golder Associates 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 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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## Executive Summary

This summary of the *2022 Annual Groundwater Monitoring and Corrective Action Report* provides the status of the groundwater monitoring and corrective action program from July 2021 through June 2022 at Georgia Power Company's (Georgia Power) Plant McDonough-Atkinson Ash Pond 2 and Ash Pond 3/4 (AP-2 and 3/4). This summary was prepared by Golder Associates USA Inc. (Golder) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6<sup>1</sup> 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 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) on-site 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.

Groundwater at AP-2 and 3/4 is monitored using a comprehensive well network comprised 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 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. The elevation data were used to confirm the groundwater flow direction, and to confirm that the groundwater monitoring well network for the CCR units remains sufficient to monitor groundwater downgradient of the units.



**Plant McDonough**

<sup>1</sup> 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 Annual Groundwater Monitoring Activities

There is no change to the AP-2 and 3/4 certified detection monitoring network during this reporting period. Groundwater monitoring semi-annual sampling events for AP-2 and 3/4 were conducted in September 2021 and January 2022. Groundwater samples were collected and analyzed for Appendix III<sup>2</sup> and Appendix IV<sup>3</sup> required monitoring parameters.

Analytical data from the September 2021 and the January 2022 monitoring events have been statistically analyzed in accordance with the Site's certified statistical analysis method. For the September 2021 and January 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.

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

Appendix III Constituent	September 2021 <sup>[1]</sup>
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-2, DGWC-4, DGWC-5, DGWC-9, DGWC-10, DGWC-11, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-48
Chloride	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-48
Fluoride	DGWC-9, DGWC-10, DGWC-48
pH	DGWC-5, DGWC-8, DGWC-9, DGWC-10, DGWC-17, DGWC-19, DGWC-20, DGWC-42, DGWC-47, DGWC-48
Sulfate	DGWC-2, DGWC-4, DGWC-5, DGWC-8, DGWC-9, DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-14, 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-8, DGWC-9, DGWC-10, DGWC-11, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-48
Appendix IV Constituent	September 2021 <sup>[2]</sup>
Arsenic	DGWC-9
Beryllium	DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48, B-93
Cobalt	DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, B-93
Lithium	DGWC-47, DGWC-48, B-104D <sup>[3]</sup>
Radium 226 + 228	B-104D
Selenium	DGWC-9

<sup>2</sup> Appendix III: boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids

<sup>3</sup> Appendix IV: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, combined radium (226 + 228), selenium, and thallium.

Appendix III Constituent	January 2022 <sup>[1]</sup>
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-2, DGWC-4, DGWC-5, DGWC-9, DGWC-10, DGWC-11, DGWC-13, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-48
Chloride	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-48
Fluoride	DGWC-9, DGWC-10, DGWC 20, DGWC-47, DGWC-48
pH	DGWC-5, DGWC-9, DGWC-10, DGWC-13, DGWC-19, DGWC-20, DGWC-47, DGWC-48
Sulfate	DGWC-2, DGWC-4, DGWC-5, DGWC-8, DGWC-9, DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-14, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-47, DGWC-48
TDS	DGWC-4, DGWC-5, DGWC-9, DGWC-10, DGWC-11, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-48
Appendix IV Constituent	January 2022 <sup>[2]</sup>
Arsenic	DGWC-9
Beryllium	DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48, B-92, B-93
Cobalt	DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, B-93, B-104D
Lithium	DGWC-47, DGWC-48
Selenium <sup>[3]</sup>	DGWC-9
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 (iii) background levels for constituents where the background level is higher than the MCL or RSL.
- [3] The January 2022 statistical results do not identify Selenium at DGWC-9 as an SSL. However, since this constituent previously exceeded the GWPS, McDonough will continue to evaluate the presence of selenium in DGWC-9 until such time that the entire confidence interval is below the GWPS, and GA EPD concurs with no further action.

The Appendix IV SSLs are horizontally delineated in Site assessment wells to below GWPS for arsenic, beryllium, lithium, and selenium. Cobalt is horizontally delineated through on-site monitoring wells and surface water sampling downgradient. Surface water samples collected in September 2021 and February 2022 show non-detect levels for arsenic and cobalt, which are consistent with previous observations. Because radium concentrations at B-104D and B-109D are recent SSLs, Georgia Power will review the SSLs of radium and follow the guidance and timelines specified in § 257.95(g). An ASD for radium was submitted 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 Georgia (GA) Environmental Protection Division (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 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 annual report documents groundwater monitoring activities conducted from both semi-annual monitoring events, conducted during September 2021 and January 2022 at AP-2 and 3/4. Activities completed at Plant McDonough's Ash Pond 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-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 on December 7, 2015, for AP-2 and December 8, 2015, for AP-3 and AP-4 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-234 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 for AP-2 and 3/4 is established 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 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. However, deeper bedrock (i.e., approximately greater than 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 Professional Engineer licensed in GA 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. Table 1 includes well construction details for the multi-unit AP-2 and 3/4 monitoring well network. Additionally, a separate network for AP-1 as well as a series of piezometers were installed at the Site. Table 1 also includes the current assessment well network and the construction details for each of the Site wells and piezometers for the multi-unit monitoring network and the separate AP-1 unit.

## 2.0 GROUNDWATER MONITORING ACTIVITIES

The following section describes monitoring-related activities for sampling performed at the Site from July 2021 through June 2022. Routine groundwater sampling was performed in September 2021 and in January 2022 in accordance with 40 CFR § 257.93. Due to some flooding west of AP-1 during September 2021, some of the monitoring wells were not accessible and a second water level monitoring event was conducted on October 27, 2021. Groundwater monitoring field forms from these monitoring events are contained in Appendix A, while analytical data reports are contained in Appendix B.

## 2.1 Monitoring Well Installation and Maintenance

As part of ongoing delineation activities, two additional piezometers (B-122D and B-123D) were installed south of AP-3/4. The piezometer installation report is included in Appendix C. There was no change to the detection groundwater monitoring system during this reporting period. Monitoring well related activities included visual inspection of well conditions prior to sampling, recording conditions around the well, and performing exterior maintenance to provide safe access for sampling. The well condition inspection forms are included in Appendix D.

Monitoring wells are inspected semiannually 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)). In September 2021, monitoring wells were inspected, necessary corrective actions were identified and subsequently completed in October 2021, as documented in Appendix D. This documentation will serve as the required five- year well inspection and 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 events were conducted for AP-2 and 3/4 in September 2021 and January 2022. Samples were collected from each well in the certified monitoring network as well as those in the assessment monitoring network. The monitoring wells sampled included AP-2 and 3/4 detection and assessment monitoring wells presented in Table 1 and 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 2021 and the January 2022 semi-annual sampling events, groundwater samples were collected for Appendix III and Appendix IV constituents. Results of the sampling activities conducted in September 2021 and January 2022 are discussed in Section 5.0, and the data are presented in Appendix B.

## 2.3 Additional Sampling

Additional 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 the Site. Additional sampling 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 network.

Due to the proximity of the Chattahoochee River in the downgradient direction of the wells with statistically significant levels (SSLs) of cobalt, installation of additional wells to horizontally characterize this area is infeasible. In response, Georgia Power collected surface water samples from the Chattahoochee River on September 7, 2021 and January 25, 2022. The surface water samples collected in September 2021 and January 2022 were analyzed for Appendix III parameters, select Appendix IV parameters (arsenic, cobalt, molybdenum, and selenium) 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 associated with each of these sampling events 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 on June 6, 2022. Results of these analyses is provided in Appendix B.

### 3.0 SAMPLE METHODOLOGY AND ANALYSIS

Sampling events completed during this reporting period at AP-2 and 3/4 include the September 2021 and January 2022 semi-annual assessment monitoring events. Groundwater analytical data and chain of custody records are presented in Appendix B. The following sections describe methods used to conduct groundwater monitoring at the Site.

#### 3.1 Groundwater Elevation Measurement

Sitewide groundwater elevations could not be measured during the September 2021 monitoring event due to significant rainfall that limited access to some well locations. Therefore, sitewide groundwater elevations were recorded in October 2021 and January 2022. Groundwater elevation data are summarized in Table 3. Calculated water level data were used to develop Figures 4A, 4B, 5A and 5B. Site potentiometric maps show that groundwater generally flows west/southwest across the Site, which is consistent with historical observations with localized fluctuations as a result of the ongoing dewatering efforts. Figures 4B and 5B, insets of the northeast portion of AP-3/4, present the effects of the localized dewatering. Groundwater flow in this area is inward towards AP-3/4.

Localized groundwater flow directions within this aquifer are influenced by topographic and top of rock variations on Site 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 of AP-3/4. Dewatering at AP-4 is creating inward gradient northeast of AP-3/4 and is expected to resemble pre-impoundment groundwater conditions corresponding to the higher topographic elevations in that area following closure. AP-2 was over excavated into subgrade soils and filled with onsite backfill from the AP-4 dike, creating a low hydraulic gradient. Construction in the AP-3/4 area is expected to be complete by third quarter of 2022. Regionally groundwater is interpreted to flow south-southeast from the topographic high northwest of AP-3/4 towards AP-2 and the Chattahoochee River.

#### 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 October 2021 and January 2022 from two piezometer and/or well pairings; DGWA-53/DGWC-13, and B-26/DGWC-48, located along the groundwater flow path and 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  $7.70 \times 10^{-4}$  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 hydraulic gradient calculated between well pairs are shown on Table 4A for October 2021 and 4B for January 2022.

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

$$V = \frac{K * i}{n_e} \quad \text{Where:}$$

$V =$  Groundwater flow velocity  $\left( \frac{\text{feet}}{\text{day}} \right)$   
 $K =$  Average hydraulic conductivity of the aquifer  $\left( \frac{\text{feet}}{\text{day}} \right)$   
 $i =$  Horizontal hydraulic gradient  $\left( \frac{\text{feet}}{\text{feet}} \right)$   
 $n_e =$  Effective porosity

Using this equation, groundwater flow velocities were calculated for AP-2 and 3/4 using October 2021 and January 2022 groundwater elevation data as shown on Tables 4A and 4B.

Calculated (horizontal) flow velocities range from approximately 104 feet per year (ft/yr) to 115 ft/yr during the October 2021 and January 2022 events. 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). In the vicinity of each of the dewatering wells, small, localized flow changes are observed. Flow rates in this area are temporarily increased 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. 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, 2020). 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 2020we turbidimeter. Groundwater samples were collected when the following stabilization criteria were met for a minimum of three consecutive readings:

- $\pm 0.1$  standard units (S.U.) for pH
- $\pm 5\%$  for specific conductance
- $\pm 10\%$  or  $\pm 0.2$  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

- ≤5 Nephelometric Turbidity Units (NTUs) for turbidity.

Following well 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. Field information forms, generated directly from the SmarTroll®/Aqua TROLL®, are provided in Appendix A and 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, which contains a description of the sampling equipment, sampling method, purge rate, field observations, and depth to water measurements at each monitoring location. Calibration forms for field instruments and field data sheets are also included in Appendix A.

### 3.4 Laboratory Analysis

Groundwater samples were collected in September 2021 and January 2022 as part of the semi-annual sampling events. Because AP-2 and 3/4 is currently in assessment monitoring, 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 through 5D presents a tabulated summary of the September 2021 and January 2022 detection, assessment, and supplemental sample results. Results of surface water samples collected in September 2021 and January 2022 are presented on Tables 6A and 6B. Analytical methods used for monitoring parameters can be found in the analytical data reports in Appendix B.

Laboratory analyses for all events 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 all parameters analyzed for this project. Analytical data, chain-of-custody records, and NELAP certifications for the monitoring events are presented in Appendix B.

### 3.5 Quality Assurance and Quality Control

During each sampling event, quality assurance/quality control (QA/QC) samples were collected at a rate of one sample per every 10 samples. QA/QC samples included equipment blanks (where non-dedicated sampling equipment is used), field blanks, and duplicate samples. QA/QC sample data were evaluated during data validation (as described below) and is 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, 2017) 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 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 E.

### 4.1 Statistical Method

The selected statistical method for AP-2 and 3/4 was developed in accordance with 40 CFR § 257.93(f), using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance* (US EPA, 2009). 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, Rule Specified Limits (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.

On February 22, 2022 GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPS where an MCL has not been established. These levels were specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L), except when site specific background concentrations of these constituents is higher. Statistical evaluation for the Spring 2022 event was updated to reflect these changes. 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 E. 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 2021 and January 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 E.

### 4.2.1 September 2021 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 E.

### 4.2.2 September 2021 Appendix IV Statistical Results

Analytical data from the September 2021 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-93
Cobalt	DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, B-93
Lithium	DGWC-47, DGWC-48, B-104D <sup>[1]</sup>
Selenium	DGWC-9
Combined Radium	B-104D

[1] Lithium at B-104D does not exceed the Federal GWPS; only the state GWPS is exceeded. As of February 2022, Lithium at B-104D is no longer an SSL.

### 4.2.3 January 2022 Appendix III Statistical Results

Based on the statistical results, SSIs of boron, calcium, chloride, fluoride, pH, sulfate, and TDS were identified following the January 2022 assessment monitoring event. A detailed list of the noted exceedances is presented in Appendix E.

### 4.2.4 January 2022 Appendix IV Statistical Results

Analytical data from the January 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
Cobalt	DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, B-93, B-104D
Lithium	DGWC-47, DGWC-48
Selenium <sup>(1)</sup>	DGWC-9
Combined Radium	B-104D, B-109D

[1] The January 2022 statistical results do not identify Selenium at DGWC-9 as an SSL. However, since this constituent previously exceeded the GWPS, Georgia Power will continue to evaluate the presence of Selenium in DGWC-9 until such time that the entire confidence interval is below the GWPS, and GA EPD concurs with no further action.

## 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 E.

To characterize the nature and extent of arsenic, beryllium, cobalt, lithium, radium and selenium SSLs, multiple piezometers 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, 2022b, Appendix F).

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-93, B-98, Flow is toward AP-4 <sup>[3]</sup>
DGWC-8	Cobalt	B-106D	B-88, Flow is toward AP-4 <sup>[3]</sup>
DGWC-9	Arsenic	B-101D	DGWC-10, Flow is toward AP-4 <sup>[3]</sup>
	Beryllium	B-101D	DGWC-11, Flow is toward AP-4 <sup>[3]</sup>
	Cobalt	B-101D	DGWC-11, Flow is toward AP-4 <sup>[3]</sup>
	Selenium <sup>[4]</sup>	B-101D	DGWC-10, Flow is toward AP-4 <sup>[3]</sup>
DGWC-10	Beryllium	B-102D	DGWC-11, Flow is toward AP-4 <sup>[3]</sup>
	Cobalt	B-102D	DGWC-11, Flow is toward AP-4 <sup>[3]</sup>
DGWC-19	Cobalt	B-107D	B-77
DGWC-20	Cobalt	B-108D	B-83
DGWC-47	Beryllium	B-123D / B-115D <sup>[1]</sup>	B-77
	Cobalt	B-123D /B-115D <sup>[1]</sup>	B-77
	Lithium	B-123D /B-115D <sup>[1]</sup>	B-77
DGWC-48	Beryllium	B-104D / B-122D <sup>[1]</sup>	B-83
	Cobalt	B-104D / B-122D <sup>[1]</sup>	B-83
	Lithium	B-104D / B-122D <sup>[1]</sup>	B-83
B-56	Cobalt	B-101D	B-66, Flow is toward AP-4 <sup>[4]</sup>
B-63	Cobalt	B-122D <sup>[2]</sup>	DW_US
B-92	Beryllium	B-111D	B-97, Flow is toward AP-4 <sup>[3]</sup>
B-93	Beryllium	B-111D	B-98, Flow is toward AP-4 <sup>[3]</sup>
	Cobalt	B-111D	B-98, Flow is toward AP-4 <sup>[3]</sup>
B-104D	Cobalt	B-122D <sup>[2]</sup>	B-122D <sup>[2]</sup>
	Combined Radium <sup>[5]</sup>	B-123D Pending <sup>[2]</sup>	B-122D <sup>[2]</sup>
B-109D	Combined Radium <sup>[5]</sup>	B-123D Pending <sup>[2]</sup>	B-122D <sup>[2]</sup>

## Notes:

- [1] Delineation status is pending additional data collection at location B-115D, B-122D, B-123D. A minimum of four data points is needed to perform the required statistical analyses.
- [2] Monitoring wells B-122D and B-123D were installed in March/April 2022 and first sampled in June 2022. Verification sampling is ongoing.

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

[4] Current sample results are below the GWPS.

[5] An Alternate Source Demonstration (ASD) for Combined Radium has been submitted for Plant McDonough (Appendix G). 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 and 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 wells DGWC-47, DGWC-48 and B-104D. Vertical delineation at these locations is ongoing. Horizontal and vertical delineation is summarized below based on review of analytical results, statistical analyses and the isoconcentration contours (Appendix F).

**Arsenic at DGWC-9:** Groundwater flow is inward toward AP-4 and as such delineation is complete. However, adjacent wells have been sampled and note that horizontal delineation is complete based on results from sampling of DGWC-10. The arsenic SSL noted at DGWC-9 is vertically delineated at well B-101D.

**Beryllium at DGWC-5, DGWC-9, DGWC-10, B-92 and B-93:** Horizontal delineation in the area of these wells is complete; groundwater flow is inward toward AP-4. Vertical delineation is complete using wells B-111D, B-101D, and B-102D which are installed adjacent to these wells.

**Beryllium at DGWC-47 and DGWC-48:** Horizontal delineation of beryllium is complete with sampling of monitoring wells B-77 and B-83, respectively. Vertical delineation for beryllium at DGWC-48 is complete with beryllium below the SSL is B-104D. For the vertical delineation of beryllium at DGWC-47, a deeper well, B-103D, was recently installed. Well B-103D did not yield sufficient amounts of water for representative sampling. Water-bearing fractures were not identified during drilling to a depth that exceeds 80 feet below ground surface. The bedrock unit is highly competent with limited connectivity within the unit, where groundwater flow only occurs within discrete fractures. Additional vertical delineation wells (B-122D and B-123D) were installed downgradient. The initial sampling was completed in June 2022. Results are summarized on Tables 5C and 5D and provided in Appendix B and indicate vertical delineation is complete based on results from well B-122D. Resampling of B-123D was completed in July 2022 and results are pending. Vertical delineation at DGWC-47, DGWC-48, and B-104D is ongoing.

**Cobalt at DGWC-8, DGWC-9, DGWC-10, B-56, and B-93:** Horizontal delineation for cobalt in the area of these wells is complete; groundwater flow is inward toward AP-4. Vertical delineation is complete using wells B-106D, B-101D, B-102D, and B-111D, which were installed adjacent to these wells.

**Cobalt at DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-63, and B-104D:** Horizontal delineation for cobalt at wells DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-63 and B-104D is complete with sampling of monitoring wells B-77, B-83, and B-62, and surface water samples from the Chattahoochee River (DW\_US, DW\_DS, CR+0.1, and CR+0.2). More specifically, the cobalt SSLs identified along the well transect extending from DGWC-47 to B-63 are horizontally delineated by surface water samples collected at DW\_US. The cobalt SSLs identified along the well transect extending from DGWC-40 to B-100 are horizontally delineated by surface water

samples collected at CR-0.1 and downstream locations CR+0.2 and CR+0.4. Cobalt SSLs noted along transect DGWC-48 to B-83 are delineated to below GWPS in well B-83.

Vertical delineation for cobalt at wells DGWC-19 and DGWC-20 are delineated using wells B-107D and B-108D. Vertical delineation along the transects extending from GWC-47 to B-63 is vertically delineated by B-122D.

**Lithium at DGWC-47 and DGWC-48:** Horizontal delineation of lithium is complete with sampling of monitoring wells B-77 and B-83. Vertical delineation for DGWC-47 and DGWC-48 is complete with monitoring of downgradient well B-122D. Vertical delineation at DGWC-47 and DGWC-48 is ongoing.

**Selenium at DGWC-9:** Horizontal delineation for selenium at DGWC-9 is complete with sampling of DGWC-10. We also note that groundwater flow is inward, toward AP-4. Vertical delineation is complete with sampling of B-101D. January 2022 sample result for selenium at DGWC-9 are below the GWPS and results of statistical analysis no longer demonstrate an SSL. However, selenium will continue to be evaluated and remedial alternatives evaluated until such time as the entire confidence interval is below the GWPS.

**Radium at B-104D and B-109D:** Horizontal and vertical delineation of radium at B-104D and B-109D is pending further investigation. Natural sources of radium have been identified and an ASD (Appendix G) was submitted to GA EPD (Golder, 2022c) for these concentrations above the GWPS on April 29, 2022 and is pending review.

In summary, based on data collected to date, there are no impacts to surface water by constituents with SSLs at AP-2 and 3/4 and the horizontal delineation of target SSL constituents is complete. Evaluation of vertical delineation for SSLs at AP-2 and 3/4 is ongoing pending additional data collection.

## 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 F 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 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 October 2021 and January 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 for the time being. 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 complete with the exception of wells DGWC-47 and DGWC-48. Results from recent piezometer installation at B-123D is pending resample results.

Based on the findings presented herein, Plant McDonough will continue with assessment groundwater monitoring and reporting. The next sampling event is tentatively scheduled for August 2022.

## 9.0 REFERENCES

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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
<b>ASH POND 1 (AP-1) DETECTION MONITORING WELL NETWORK</b>											
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
<b>ASH POND 1 (AP-1) ASSESSMENT MONITORING WELL NETWORK</b>											
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 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
<b>ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) DETECTION MONITORING WELL NETWORK</b>											
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
<b>ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) ASSESSMENT MONITORING WELL NETWORK</b>											
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 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
<b>ASH POND 1, ASH POND 2 AND ASH POND 3/4 SUPPLEMENTAL SAMPLING NETWORK</b>											
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-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
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>PIEZOMETERS</b>											
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

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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
<b>PIEZOMETERS</b>											
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
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-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

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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
<b>PIEZOMETERS</b>											
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-94	Downgradient	Overburden	1394402.0	2203513.7	801.74	799.2	45.2	764.6	754.6	10	1/23/2020
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-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 Events		Status of Monitoring Well
		September 2021	January 2022	
Purpose of Sampling Event		Detection/ Assessment	Detection/ Assessment	
<b>ASH POND 2 and ASH PONDS 3/4 (AP-2 &amp; 3/4) MONITORING WELL NETWORK</b>				
DGWA-53	Upgradient	X	X	Assessment
DGWA-70A	Upgradient	X	X	Assessment
DGWA-71	Upgradient	X	X	Assessment
DGWC-2	Downgradient	X	X	Assessment
DGWC-4	Downgradient	X	X	Assessment
DGWC-5	Downgradient	X	X	Assessment
DGWC-8	Downgradient	X	X	Assessment
DGWC-9	Downgradient	X	X	Assessment
DGWC-10	Downgradient	X	X	Assessment
DGWC-11	Downgradient	X	X	Assessment
DGWC-12	Downgradient	X	X	Assessment
DGWC-13	Downgradient	X	X	Assessment
DGWC-14	Downgradient	X	X	Assessment
DGWC-15	Downgradient	X	X	Assessment
DGWC-17	Downgradient	X	X	Assessment
DGWC-19	Downgradient	X	X	Assessment
DGWC-20	Downgradient	X	X	Assessment
DGWC-21	Downgradient	X	X	Assessment
DGWC-22	Downgradient	X	X	Assessment
DGWC-23	Downgradient	X	X	Assessment
DGWC-42	Downgradient	X	X	Assessment
DGWC-47	Downgradient	X	X	Assessment
DGWC-48	Downgradient	X	X	Assessment
<b>ASH POND 2 and ASH PONDS 3/4 (AP-2 &amp; 3/4) ASSESSMENT MONITORING WELL NETWORK</b>				
B-56	Downgradient	X	X	Assessment
B-62	Downgradient	X	X	Assessment
B-63	Downgradient	X	X	Assessment
B-66	Downgradient	X	X	Assessment
B-77	Downgradient	X	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 Events		Status of Monitoring Well
		September 2021	January 2022	
Purpose of Sampling Event		Detection/ Assessment	Detection/ Assessment	
<b>ASH POND 2 and ASH PONDS 3/4 (AP-2 &amp; 3/4) ASSESSMENT MONITORING WELL NETWORK</b>				
B-82	Downgradient	X	X	Assessment
B-83	Downgradient	X	X	Assessment
B-88	Downgradient	X	X	Assessment
B-92	Downgradient	X	X	Assessment
B-93	Downgradient	X	X	Assessment
B-97	Downgradient	X	X	Assessment
B-98	Downgradient	X	X	Assessment
B-100	Downgradient	X	X	Assessment
B-101D	Downgradient	X	X	Assessment
B-102D	Downgradient	X	X	Assessment
B-104D	Downgradient	X	X	Assessment
B-106D	Downgradient	X	X	Assessment
B-107D	Downgradient	X	X	Assessment
B-108D	Downgradient	X	X	Assessment
B-109D	Downgradient	X	X	Assessment
B-111D	Downgradient	X	X	Assessment
B-115D	Downgradient	X	X	Assessment
B-120D	Downgradient	X	X	Assessment
B-122D <sup>[1]</sup>	Downgradient	--	X <sup>[1]</sup>	Assessment
<b>ASH POND 2 and ASH PONDS 3/4 (AP-2 &amp; 3/4) SUPPLEMENTAL SAMPLING</b>				
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	X	Supplemental
B-117D	Upgradient	X	X	Supplemental
B-118	Upgradient	X	X	Supplemental
B-119D	Upgradient	X	X	Supplemental
B-123D <sup>[1]</sup>	Downgradient	X	X	Supplemental

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

Well ID	Top of Casing Elevation (feet)	Groundwater Elevation (feet)	
		10/27/2021	1/18/2022
<b>ASH POND 1 (AP-1) MONITORING WELLS</b>			
DGWA-53	844.26	829.75	833.41
DGWA-70A	808.52	766.90	767.00
DGWA-71	863.84	835.19	835.49
DGWC-37	766.21	752.28	752.81
DGWC-38	757.43	751.08	751.38
DGWC-39	759.89	752.00	753.11
DGWC-40	779.06	760.54	761.83
DGWC-67	766.70	756.39	757.03
DGWC-68A	765.33	754.97	755.45
DGWC-69	763.75	757.55	758.17
DGWC-121	764.16	--	--
<b>ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) MONITORING WELLS</b>			
DGWA-53	844.26	829.75	833.41
DGWA-70A	808.52	766.90	767.00
DGWA-71	863.84	835.19	835.49
DGWC-2	850.88	820.66	821.71
DGWC-4	814.85	790.13	790.75
DGWC-5	791.75	781.04	782.25
DGWC-8	826.38	787.64	786.94
DGWC-9	824.35	798.22	BTOP
DGWC-10	823.55	794.64	796.63
DGWC-11	800.57	785.55	790.14
DGWC-12	773.86	762.68	766.10
DGWC-13	794.10	760.25	759.56
DGWC-14	792.40	771.99	771.32
DGWC-15	824.50	784.44	783.82
DGWC-17	837.05	802.35	802.91
DGWC-19	825.46	800.23	800.23
DGWC-20	822.14	799.51	799.35
DGWC-21	816.28	799.93	799.38
DGWC-22	816.59	795.57	795.80
DGWC-23	818.37	795.74	799.31
DGWC-42	804.68	775.13	774.95
DGWC-47	797.45	777.86	780.54
DGWC-48	788.33	773.68	774.25

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

Well ID	Top of Casing Elevation (feet)	Groundwater Elevation (feet)	
		10/27/2021	1/18/2022
<b>PIEZOMETERS</b>			
B-3	837.78	801.63	801.27
B-6	789.47	783.05	783.74
B-7	809.16	784.50	784.72
B-16	826.47	792.85	791.85
B-18	826.56	803.08	803.71
B-24	822.11	804.48	803.92
B-25	836.54	818.52	822.26
B-26	853.60	825.71	826.72
B-28	816.08	785.73	786.64
B-29	816.43	787.34	788.92
B-31	797.47	763.41	763.85
B-41	795.20	770.17	770.93
B-50	809.67	787.79	787.64
B-51	765.92	752.76	753.29
B-52	822.89	797.81	797.23
B-54	785.46	779.36	779.74
B-55	825.12	798.84	799.41
B-56	823.59	795.43	795.91
B-57	789.04	770.89	770.19
B-58	788.17	769.31	768.75
B-59	788.00	779.88	780.60
B-60	782.13	751.61	751.29
B-61	782.09	763.66	763.24
B-62	760.08	744.95	745.58
B-63	777.10	748.75	748.95
B-64	785.83	779.28	780.03
B-65	821.95	801.83	801.53
B-66	815.90	796.40	799.00
B-68	758.68	754.70	755.12
B-72	758.46	754.96	755.33
B-73	759.21	754.71	755.29
B-74	759.06	754.90	755.31
B-76	760.53	745.71	746.10
B-77	776.86	747.48	748.13
B-78	790.75	779.65	780.47
B-79	788.66	781.58	781.97
B-80	804.47	784.84	785.16
B-81	820.56	784.31	784.29



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

Well ID	Top of Casing Elevation (feet)	Groundwater Elevation (feet)	
		10/27/2021	1/18/2022
<b>PIEZOMETERS</b>			
B-82	810.07	793.97	798.12
B-83	776.98	746.58	746.75
B-84	776.34	745.42	745.68
B-85	782.54	779.14	779.69
B-86	784.29	782.10	782.65
B-87	803.37	784.94	785.35
B-88	820.07	783.58	783.78
B-89	822.36	796.56	795.86
B-90	784.00	781.97	782.48
B-91	782.98	779.18	779.58
B-92	785.08	779.36	780.13
B-93	789.07	780.57	782.04
B-94	801.74	784.86	785.30
B-95	784.00	781.90	782.15
B-96	784.92	778.88	779.66
B-97	786.29	779.84	781.36
B-98	789.67	780.15	782.45
B-99	782.39	778.63	779.44
B-100	777.95	744.70	744.44
B-101D	824.29	793.84	793.97
B-102D	823.42	791.56	792.20
B-103D	795.96	782.28	783.34
B-104D	787.90	780.44	780.77
B-105D	779.01	760.75	762.19
B-106D	826.21	787.01	786.33
B-107D	823.38	800.95	800.67
B-108D	821.13	800.27	799.68
B-109D	850.73	811.87	811.95
B-110D	764.61	755.69	756.09
B-111D	791.87	780.07	781.56
B-112D	765.58	757.86	758.48
B-113D	758.22	756.21	756.79
B-115D	789.17	768.96	768.28
B-116D	807.82	764.80	765.35
B-117D	863.82	834.63	834.67
B-118	807.70	756.15	756.6
B-119D	807.15	759.14	759.76
B-120D	836.42	801.72	801.34
B-122D	777.03	--	--
B-123D	781.80	--	--

**Notes:**

1. Elevation data recorded in feet North American Vertical Datum (NAVD)
2. Survey data for monitoring wells and piezometers provided by Metro Engineering.
3. -- = Not Available
4. BTOP = Below top of pump
5. Monitoring well DGWC-121 and peizometers B-122D and B-123D were installed in March/April 2022.

**TABLE 4A**  
**GROUNDWATER VELOCITY CALCULATIONS - OCTOBER 2021**  
 Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4  
 Atlanta, Georgia

Flow Paths	Groundwater Elevation (feet)	$\Delta h$ (feet) <sup>1</sup>	$\Delta l$ (feet) <sup>2</sup>	Hydraulic Gradient ( $\Delta h/\Delta l$ ) <sup>3</sup>	Average Hydraulic Conductivity, K (centimeter per second) <sup>5</sup>	Assumed Effective Porosity ( $n_e$ ) <sup>6</sup>	Average Linear Groundwater Velocity	
							(feet per day) <sup>4</sup>	(feet per year) <sup>4</sup>
<b>ASH POND 2 AND ASH PONDS 3/4 (AP-2, 3/4)</b>								
DGWA-53/DGWC-13	829.75	69.50	2550	0.027	0.00077	0.2	0.30	109
	760.25							
B-26/DGWC-48	825.71	52.03	2000	0.026	0.00077	0.2	0.28	104
	773.68							

**Notes:**

1.  $\Delta h$  = Change in groundwater elevation
2.  $\Delta l$  = Distance along flow path
3.  $l = \Delta h / \Delta l$
4. Velocity =  $(l * K)/n_e$
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 4B**  
**GROUNDWATER VELOCITY CALCULATIONS - JANUARY 2022**  
 Georgia Power Company - Plant McDonough Ash Pond 2 and 3/4  
 Atlanta, Georgia

Flow Paths	Groundwater Elevation (feet)	$\Delta h$ (feet) <sup>1</sup>	$\Delta l$ (feet) <sup>2</sup>	Hydraulic Gradient ( $\Delta h/\Delta l$ ) <sup>3</sup>	Average Hydraulic Conductivity, K (centimeter per second) <sup>5</sup>	Assumed Effective Porosity ( $n_e$ ) <sup>6</sup>	Average Linear Groundwater Velocity	
							(feet per day) <sup>4</sup>	(feet per year) <sup>4</sup>
<b>ASH POND 2 AND ASH PONDS 3/4 (AP-2, 3/4)</b>								
DGWA-53/DGWC-13	833.41	73.85	2550	0.029	0.00077	0.2	0.32	115
	759.56							
B-26/DGWC-48	826.72	52.47	2000	0.026	0.00077	0.2	0.29	105
	774.25							

**Notes:**

1.  $\Delta h$  = Change in groundwater elevation
2.  $\Delta l$  = Distance along flow path
3.  $l = \Delta h / \Delta l$
4. Velocity =  $(l * K)/n_e$
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 2021**  
 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
		9/9/2021	9/9/2021	9/8/2021	9/9/2021	9/10/2021	9/10/2021	9/13/2021	9/10/2021	9/10/2021	9/9/2021	9/9/2021	9/9/2021	9/9/2021
<b>Appendix III</b>														
BORON, TOTAL	mg/L	0.065	< 0.0086	< 0.0086	0.51	5.0	4.7	0.86	0.54	0.24	1.5	2.0	0.62	0.080
CALCIUM, TOTAL	mg/L	18.3	5.3	6.1	42.0	285	123	36.0	47.7	82.4	66.8	29.2	38.2	11.1
CHLORIDE, TOTAL	mg/L	1.8	1.9	5.9	2.1	13.9	9.9	8.2	9.0	8.2	13.6	8.5	12.9	3.3
FLUORIDE, TOTAL	mg/L	0.099 J	< 0.050	< 0.050	0.053 J	< 0.050	0.16	0.069 J	2.0	2.2	< 0.050	0.099 J	0.083 J	< 0.050
pH	S.U.	6.41	5.50	5.76	6.00	5.83	4.89	5.05	3.98	5.05	5.59	6.07	5.69	5.70
SULFATE, TOTAL	mg/L	11.9	< 0.50	6.1	110	823	449	145	264	271	247	126	127	42.3
TOTAL DISSOLVED SOLIDS	mg/L	131	53.0	75.0	260	1520	792	306	466	474	433	275	246	99.0
<b>Appendix IV</b>														
ANTIMONY, TOTAL	mg/L	< 0.00078	0.0015 J	< 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	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0031 J	< 0.0011	0.031	0.0076	< 0.0011	< 0.0011	< 0.0011	< 0.0011
BARIUM, TOTAL	mg/L	0.099	0.038	0.025	0.022	0.032	0.015	0.019	0.014	0.019	0.054	0.040	0.027	0.059
BERYLLIUM, TOTAL	mg/L	< 0.000054	0.000089 J	0.000091 J	< 0.000054	0.00028 J	0.0075	0.0015	0.0049	0.0074	0.00013 J	0.000084 J	0.000070 J	< 0.000054
CADMIUM, TOTAL	mg/L	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.00090	0.00093	0.0020	0.00053	0.00061	< 0.00011	< 0.00011	< 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	0.0064	< 0.00039	< 0.00039	0.0048 J	0.0019 J	0.022	0.028	0.21	0.076	0.00081 J	0.034	< 0.00039	< 0.00039
FLUORIDE, TOTAL	mg/L	0.099 J	< 0.050	< 0.050	0.053 J	< 0.050	0.16	0.069 J	2.0	2.2	< 0.050	0.099 J	0.083 J	< 0.050
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	0.0091 J	< 0.00073	0.0013 J	0.024 J	0.0035 J	0.0071 J	0.0034 J	0.027 J	0.0051 J	0.0029 J	< 0.00073	0.0036 J	0.0044 J
MERCURY, TOTAL	mg/L	< 0.000078	< 0.000078	0.000096 J	< 0.000078	0.00013 J	0.00030	< 0.000078	0.00014 J	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078
MOLYBDENUM, TOTAL	mg/L	0.025	< 0.00074	< 0.00074	0.0023 J	0.0052 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.011	< 0.00074
RADIUM (226 + 228)	pCi/L	2.72	0.779	0.0510	1.22 U	1.46	1.15	0.916 U	1.28	0.882 U	1.20 U	1.78	1.23 U	0.643 U
SELENIUM, TOTAL	mg/L	< 0.0014	< 0.0014	< 0.0014	0.0031 J	< 0.0014	0.0099	< 0.0014	0.057	0.034	< 0.0014	< 0.0014	0.0060	0.0017 J
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	0.00019 J	0.00040 J	0.00027 J	< 0.00018	< 0.00018	< 0.00018	< 0.00018

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 2021**  
 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
		9/9/2021	9/13/2021	9/9/2021	9/10/2021	9/9/2021	9/10/2021	9/9/2021	9/13/2021	9/10/2021	9/10/2021	9/13/2021	9/9/2021	9/14/2021
<b>Appendix III</b>														
BORON, TOTAL	mg/L	1.6	0.78	2.7	4.8	5.8	4.5	4.7	0.95	0.16	0.55	1.5	0.068	0.35
CALCIUM, TOTAL	mg/L	34.4	15.8	93.6	69.8	75.3	62.3	76.4	38.9	24.4	68.7	15.2	29.2	22.7
CHLORIDE, TOTAL	mg/L	21.9	18.2	25.4	26.2	20.2	17.3	12.3	17.1	2.4	10.9	7.1	5.8	7.1
FLUORIDE, TOTAL	mg/L	< 0.050	0.063 J	0.18	0.25	< 0.050	< 0.050	0.084 J	< 0.050	0.22	0.47	0.2	0.14	0.16
pH	S.U.	5.83	5.06	4.82	4.67	5.73	5.65	6.00	5.15	4.10	4.30	4.69	6.31	5.46
SULFATE, TOTAL	mg/L	139	222	315	399	238	234	217	285	123	272	189	49.2	73.2
TOTAL DISSOLVED SOLIDS	mg/L	292	424	480	678	396	468	455	508	274	532	321	174	170
<b>Appendix IV</b>														
ANTIMONY, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.0018 J	< 0.00078	< 0.00078	< 0.00078
ARSENIC, TOTAL	mg/L	< 0.0011	< 0.0011	0.0027 J	0.0083	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0016 J	< 0.0011	0.0031 J	< 0.0011	< 0.0011
BARIUM, TOTAL	mg/L	0.041	0.031	0.025	0.0098	0.023	0.027	0.021	0.014	0.021	0.013	0.026	0.021	0.026
BERYLLIUM, TOTAL	mg/L	< 0.000054	0.00052	0.0022	0.0024	0.00018 J	0.00014 J	0.00050 J	0.0024	0.0090	0.0070	0.0012	0.00014 J	0.00042 J
CADMIUM, TOTAL	mg/L	< 0.00011	0.00023 J	0.00037 J	0.0012	0.00012 J	0.00061	0.00019 J	0.00042 J	0.0014	0.0028	0.00028 J	< 0.00011	0.00025 J
CHROMIUM, TOTAL	mg/L	< 0.0011	0.0027 J	0.0030 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	0.0016 J	0.019	0.055	0.45	0.0096	0.0076	0.00049 J	0.0080	0.23	0.36	0.047	< 0.00039	0.037
FLUORIDE, TOTAL	mg/L	< 0.050	0.063 J	0.18	0.25	< 0.050	< 0.050	0.084 J	< 0.050	0.22	0.47	0.20	0.14	0.16
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	0.00099 J	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	0.0057 J	< 0.00073	0.0035 J	0.0023 J	0.0060 J	0.0039 J	0.0081 J	0.015 J	0.053	0.095	0.0055 J	0.0094 J	0.0064 J
MERCURY, TOTAL	mg/L	< 0.000078	0.000086 J	< 0.000078	< 0.000078	< 0.000078	0.00011 J	0.00011 J	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078
MOLYBDENUM, TOTAL	mg/L	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.010	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074
RADIUM (226 + 228)	pCi/L	0.624 U	0.850 U	0.239 U	0.689 U	0.702 U	0.616 U	1.81	1.15 U	2.32	2.21	0.854 U	1.70	1.68
SELENIUM, TOTAL	mg/L	< 0.0014	0.0071	0.0083	0.031	< 0.0014	< 0.0014	< 0.0014	< 0.0014	0.0035 J	0.0022 J	0.011	< 0.0014	< 0.0014
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	0.00056 J	0.00052 J	< 0.00018	< 0.00018	< 0.00018	< 0.00018	0.00036 J	< 0.00018	0.00024 J	< 0.00018	< 0.00018

- 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 2021**  
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
		9/14/2021	9/14/2021	9/14/2021	9/16/2021	9/13/2021	9/15/2021	9/15/2021	9/15/2021	9/15/2021	9/13/2021	9/13/2021	9/10/2021	9/14/2021
<b>Appendix III</b>														
BORON, TOTAL	mg/L	2.1	0.29	0.78	0.3	2.0	2.3	3.1	3.3	2.6	0.24	1.6	2.5	0.23
CALCIUM, TOTAL	mg/L	60.9	17	33.4	39.4	80.5	110	129	178	105	51.5	53.6	84.7	151
CHLORIDE, TOTAL	mg/L	8.9	4.7	9.5	2.6	8.2	10.4	13.2	18.8	29.9	11.1	8.7	10.2	7.9
FLUORIDE, TOTAL	mg/L	0.22	0.078 J	0.052 J	0.066 J	<0.050	0.18	0.34	0.085 J	0.098 J	<0.050	0.051 J	0.083 J	0.50
pH	S.U.	5.54	6.42	5.15	5.58	5.68	4.55	4.60	5.49	5.40	5.27	6.07	5.36	8.58
SULFATE, TOTAL	mg/L	268	2.5	326	106	321	384	478	551	325	351	174	271	456
TOTAL DISSOLVED SOLIDS	mg/L	490	94.0	536	223	572	612	812	892	524	636	343	474	776
<b>Appendix IV</b>														
ANTIMONY, TOTAL	mg/L	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	0.0010 J	<0.00078	<0.00078
ARSENIC, TOTAL	mg/L	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	0.0012 J	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	0.0019 J
BARIUM, TOTAL	mg/L	0.018	0.12	0.022	0.030	0.016	0.015	0.016	0.020	0.082	0.021	0.076	0.020	0.021
BERYLLIUM, TOTAL	mg/L	<0.000054	<0.000054	0.0017	0.00028 J	0.0010	0.014	0.015	0.0016	0.00087	0.00053	0.000067 J	0.0011	0.0011
CADMIUM, TOTAL	mg/L	<0.00011	<0.00011	0.0007	0.00030 J	0.0013	0.00096	0.00088	0.00056	0.00030 J	0.00029 J	<0.00011	0.00083	<0.00011
CHROMIUM, TOTAL	mg/L	<0.0011	<0.0011	<0.0011	0.0030 J	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	0.0014 J	<0.0011	<0.0011
COBALT, TOTAL	mg/L	0.012	<0.00039	0.0015 J	0.011	0.0018 J	0.063	0.062	0.0030 J	0.0048 J	0.035	0.0030 J	0.013	0.10
FLUORIDE, TOTAL	mg/L	0.22	0.078 J	0.052 J	0.066 J	<0.050	0.18	0.34	0.085 J	0.098 J	<0.050	0.051 J	0.083 J	0.50
LEAD, TOTAL	mg/L	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089
LITHIUM, TOTAL	mg/L	<0.00073	<0.00073	0.0010 J	0.0021 J	0.0017 J	0.012 J	0.011 J	0.0042 J	0.0012 J	0.0022 J	0.011 J	0.012 J	0.036
MERCURY, TOTAL	mg/L	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	0.00017 J	0.000098 J	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078
MOLYBDENUM, TOTAL	mg/L	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074
RADIUM (226 + 228)	pCi/L	0.421 U	0.617 U	1.03 U	0.442 U	0.771 U	1.39	1.84	2.11	2.20	0.774 U	1.80	1.74	9.60
SELENIUM, TOTAL	mg/L	<0.0014	<0.0014	<0.0014	0.025	0.0021 J	0.0067	0.0076	0.0024 J	0.0033 J	<0.0014	<0.0014	<0.0014	<0.0014
THALLIUM, TOTAL	mg/L	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018

Notes:

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**  
**ANALYTICAL DATA SUMMARY**  
**Additional Sampling - September 2021**  
Georgia Power Company - Plant McDonough  
Atlanta, Georgia

Analyte	Units	SUPPLEMENTAL MONITORING WELLS			
		B-116D	B-117D	B-118	B-119D
		9/9/2021	9/8/2021	9/8/2021	9/8/2021
<b>Appendix III</b>					
BORON, TOTAL	mg/L	< 0.0086	< 0.0086	< 0.0086	0.018 J
CALCIUM, TOTAL	mg/L	9.9	11.3	5.0	20.2
CHLORIDE, TOTAL	mg/L	2.7	6.0	3.0	7.5
FLUORIDE, TOTAL	mg/L	< 0.050	0.058 J	< 0.050	0.16
pH	S.U.	6.02	6.00	6.01	6.88
SULFATE, TOTAL	mg/L	0.73 J	31.1	0.99 J	76.2
TOTAL DISSOLVED SOLIDS	mg/L	93.0	152	65.0	191
<b>Appendix IV</b>					
ANTIMONY, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	0.00087 J
ARSENIC, TOTAL	mg/L	< 0.0011	< 0.0011	0.0011 J	0.0014 J
BARIUM, TOTAL	mg/L	0.017	0.048	0.021	0.0080
BERYLLIUM, TOTAL	mg/L	< 0.000054	< 0.000054	< 0.000054	< 0.000054
CADMIUM, TOTAL	mg/L	< 0.00011	< 0.00011	< 0.00011	< 0.00011
CHROMIUM, TOTAL	mg/L	< 0.0011	< 0.0011	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	< 0.00039	0.00043 J	< 0.00039	0.00077 J
FLUORIDE, TOTAL	mg/L	< 0.050	0.058 J	< 0.050	0.16
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	0.0055 J	0.0069 J	0.0028 J	0.0028 J
MERCURY, TOTAL	mg/L	< 0.000078	< 0.000078	< 0.000078	< 0.000078
MOLYBDENUM, TOTAL	mg/L	< 0.00074	< 0.00074	0.0056 J	0.022
RADIUM (226 + 228)	pCi/L	0.887 U	0.695 U	0.0324 U	0.168 U
SELENIUM, TOTAL	mg/L	< 0.0014	< 0.0014	< 0.0014	< 0.0014
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018

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 5C**  
**ANALYTICAL DATA SUMMARY**  
**Ash Pond 2 and 3/4 - January 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
		1/28/2022	1/18/2022	1/18/2022	1/20/2022	1/24/2022	1/24/2022	1/25/2022	1/26/2022	1/26/2022	1/25/2022	1/25/2022	1/25/2022	1/25/2022
<b>Appendix III</b>														
BORON, TOTAL	mg/L	0.062	0.024 J	0.015 J	0.5	5.1	4.4	0.98	0.69	0.4	1.7	0.7	0.69	0.097
CALCIUM, TOTAL	mg/L	19.5	6.1	6.6	44.6	299	112	36.8	48.4	76.8	70.2	28.5	43.2	12.4
CHLORIDE, TOTAL	mg/L	1.8	1.9	5.9	2	12.5	9.9	9.3	9.1	9	14.1	8.1	14.3	3.7
FLUORIDE, TOTAL	mg/L	0.08 J	< 0.05	< 0.05	< 0.05	< 0.05	0.19	< 0.05	1.2	1.8	< 0.05	0.093 J	0.063 J	< 0.05
pH	S.U.	6.35	5.50	5.51	5.93	5.79	4.79	5.16	3.68	4.90	5.54	5.96	4.68	5.69
SULFATE, TOTAL	mg/L	13.1	< 0.5	6.3	101	816	434	134	245	241	250	111	116	44.4
TOTAL DISSOLVED SOLIDS	mg/L	155	54	76	238	1520	810	281	409	425	465	258	256	120
<b>Appendix IV</b>														
ANTIMONY, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.0021 J	< 0.00078	< 0.00078	< 0.00078	< 0.00078
ARSENIC, TOTAL	mg/L	0.0024 J	0.0046 J	0.0054	0.0023 J	0.0011 J	0.0019 J	< 0.0011	0.012	0.0043 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011
BARIUM, TOTAL	mg/L	0.068	0.043	0.029	0.022	0.035	0.018	0.019	0.016	0.022	0.047	0.054	0.028	0.064
BERYLLIUM, TOTAL	mg/L	< 0.000054	0.000092 J	0.00012 J	< 0.000054	0.00033 J	0.0084	0.0012	0.0054	0.0091	0.00019 J	< 0.000054	0.000091 J	< 0.000054
CADMIUM, TOTAL	mg/L	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.00098	0.00094	0.0016	0.00059	0.0007	0.00016 J	< 0.00011	< 0.00011	< 0.00011
CHROMIUM, TOTAL	mg/L	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0029 J	0.0011 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	0.014	< 0.00039	< 0.00039	0.004 J	0.0019 J	0.025	0.019	0.22	0.099	0.0015 J	0.018	< 0.00039	< 0.00039
FLUORIDE, TOTAL	mg/L	0.08 J	< 0.05	< 0.05	< 0.05	< 0.05	0.19	< 0.05	1.2	1.8	< 0.05	0.093 J	0.063 J	< 0.05
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.0044	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	0.0091 J	< 0.00073	0.0013 J	0.024 J	0.0038 J	0.0068 J	0.0032 J	0.029 J	0.0059 J	0.0021 J	< 0.00073	0.0037 J	0.0043 J
MERCURY, TOTAL	mg/L	< 0.00013	< 0.00013	0.00015 J	< 0.00013	0.00022	0.00028	< 0.00013	0.00014 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	0.026	< 0.00074	< 0.00074	0.0022 J	0.0045 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.0093 J	< 0.00074
RADIUM (226 + 228)	pCi/L	2.10	1.26	0.729 U	0.722 U	0.944 U	0.807 U	0.356 U	0.789 U	1.21	0.983 U	0.739 U	0.254 U	0.229 U
SELENIUM, TOTAL	mg/L	< 0.0014	< 0.0014	< 0.0014	0.0031 J	< 0.0014	0.0048 J	< 0.0014	0.025	0.015	< 0.0014	< 0.0014	0.006	0.0016 J
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	0.00019 J	< 0.0009	0.00033 J	< 0.00018	< 0.00018	< 0.00018	< 0.00018

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 5C**  
**ANALYTICAL DATA SUMMARY**  
**Ash Pond 2 and 3/4 - January 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
		1/24/2022	1/24/2022	1/25/2022	1/21/2022	1/20/2022	1/20/2022	1/20/2022	1/20/2022	1/21/2022	1/24/2022	1/27/2022	1/20/2022	1/20/2022
<b>Appendix III</b>														
BORON, TOTAL	mg/L	1.4	0.9	2.5	3.6	6.9	4.2	4.5	0.83	0.17	0.61	1.6	0.077	0.21
CALCIUM, TOTAL	mg/L	33.2	15.6	101	104	83.7	67.3	82.7	38.1	31	61.2	19.8	36.3	22.9
CHLORIDE, TOTAL	mg/L	21.5	19.2	23.7	27	18.6	18.1	12	18.2	3.1	11.3	7.6	5.6	15
FLUORIDE, TOTAL	mg/L	< 0.050	< 0.050	0.16	1.3	< 0.050	< 0.050	< 0.050	< 0.050	0.64	0.59	0.21	0.099 J	0.12
pH	S.U.	6.06	5.15	4.79	4.47	5.73	5.72	5.95	5.27	3.72	4.03	4.70	6.32	5.46
SULFATE, TOTAL	mg/L	127	225	288	406	223	221	211	281	135	265	185	50.3	49.4
TOTAL DISSOLVED SOLIDS	mg/L	294	426	694	702	451	434	453	504	289	500	344	187	177
<b>Appendix IV</b>														
ANTIMONY, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.0011 J	< 0.00078	< 0.00078
ARSENIC, TOTAL	mg/L	< 0.0011	0.0014 J	0.0014 J	0.015	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0036 J	< 0.0011	0.0045 J	0.0033 J	0.0022 J
BARIUM, TOTAL	mg/L	0.041	0.031	0.026	0.018	0.024	0.029	0.024	0.014	0.017	0.014	0.030	0.021	0.020
BERYLLIUM, TOTAL	mg/L	< 0.000054	0.00059	0.0019	0.007	0.00019 J	0.00014 J	0.00046 J	0.002	0.01	0.0069	0.0012	0.00015 J	0.00034 J
CADMIUM, TOTAL	mg/L	< 0.00011	0.00027 J	0.00041 J	0.0028	< 0.00011	0.00052	0.00012 J	0.00038 J	0.0019	0.0029	0.00025 J	< 0.00011	< 0.00011
CHROMIUM, TOTAL	mg/L	< 0.0011	0.0029 J	0.0029 J	0.0021 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0014 J	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	0.0015 J	0.019	0.054	0.95	0.0076	0.0075	0.00058 J	0.0056	0.24	0.34	0.052	< 0.00039	0.039
FLUORIDE, TOTAL	mg/L	< 0.050	< 0.050	0.16	1.3	< 0.050	< 0.050	< 0.050	< 0.050	0.64	0.59	0.21	0.099 J	0.12
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.0089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	0.0011	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	0.0051 J	< 0.00073	0.0031 J	0.012 J	0.0058 J	0.0032 J	0.0029 J	0.0069 J	0.055	0.11	0.0061 J	0.0092 J	0.0062 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	0.0073 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074
RADIUM (226 + 228)	pCi/L	0.534 U	0.692 U	0.415 U	0.826 U	0.337 U	0.298 U	0.610 U	0.0465 U	0.785 U	0.668 U	0.831 U	1.71	0.846 U
SELENIUM, TOTAL	mg/L	< 0.0014	0.0064	0.0029 J	0.041	< 0.0014	< 0.0014	< 0.0014	< 0.0014	0.0016 J	< 0.0014	0.0066	< 0.0014	< 0.0014
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	0.00057 J	< 0.0018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	0.00028 J	< 0.00018	0.00032 J	< 0.00018	< 0.00018

- 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 5C**  
**ANALYTICAL DATA SUMMARY**  
**Ash Pond 2 and 3/4 - January 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
		1/25/2022	1/20/2022	1/25/2022	1/21/2022	1/27/2022	1/26/2022	1/26/2022	1/26/2022	1/26/2022	1/21/2022	1/26/2022	1/27/2022	1/24/2022
<b>Appendix III</b>														
BORON, TOTAL	mg/L	2.3	0.28	0.70	0.32	2.7	2.7	3.6	3.7	0.12	0.24	1.4	2.7	0.24
CALCIUM, TOTAL	mg/L	54.9	18.6	36.4	40.8	105	96	141	198	31.9	49.9	49.7	86.9	163
CHLORIDE, TOTAL	mg/L	8.7	5.0	9.9	2.4	8.8	9.4	14.7	19.8	4.9	11.3	9.0	10.4	7.8
FLUORIDE, TOTAL	mg/L	0.12	< 0.050	< 0.050	< 0.050	< 0.050	0.30	0.41	0.088 J	0.13	< 0.050	< 0.050	0.062 J	0.28
pH	S.U.	6.35	6.48	5.07	5.56	5.50	4.50	4.74	6.52	6.52	5.23	5.87	5.33	6.48
SULFATE, TOTAL	mg/L	240	< 0.500	363	106	371	305	477	531	18.4	344	144	231	423
TOTAL DISSOLVED SOLIDS	mg/L	482	129	668	236	654	572	766	930	139	638	290	459	806
<b>Appendix IV</b>														
ANTIMONY, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.00082 J	< 0.00078	0.001 J
ARSENIC, TOTAL	mg/L	< 0.0011	0.0030 J	0.0030 J	0.0014 J	< 0.0011	0.0015 J	0.0020 J	0.0014 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0035 J
BARIIUM, TOTAL	mg/L	0.021	0.13	0.026	0.024	0.018	0.016	0.021	0.020	0.035	0.023	0.062	0.022	0.024
BERYLLIUM, TOTAL	mg/L	< 0.000054	< 0.000054	0.0021	0.00039 J	0.0019	0.018	0.017	0.0017	0.000068 J	0.00053	0.000079 J	0.0011	0.0012
CADMIUM, TOTAL	mg/L	< 0.00011	< 0.00011	0.00072	0.0003 J	0.0036	0.0010	0.00079	0.00055	< 0.00011	0.00059	0.00011 J	0.00091	< 0.00011
CHROMIUM, TOTAL	mg/L	< 0.0011	< 0.0011	< 0.0011	0.0034 J	< 0.0011	< 0.0011	0.0011 J	< 0.0011	0.0013 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	0.013	< 0.00039	0.0039 J	0.011	0.0038 J	0.071	0.064	0.003 J	< 0.00039	0.034	0.0028 J	0.014	0.10
FLUORIDE, TOTAL	mg/L	0.12	< 0.050	< 0.050	< 0.050	< 0.050	0.30	0.41	0.088 J	0.13	< 0.050	< 0.050	0.062 J	0.28
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	0.0022	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	0.00073 J	< 0.00073	0.00082 J	0.0022 J	0.0066 J	0.015 J	0.013 J	0.0047 J	0.0013 J	0.0021 J	0.0098 J	0.013 J	0.036
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	< 0.00074	< 0.00074	0.0015 J	< 0.00074	< 0.00074	< 0.00074	0.00083 J
RADIUM (226 + 228)	pCi/L	0.000 U	0.920	0.330 U	0.549 U	1.18	1.27 U	0.758 U	1.47 U	0.520 U	0.769 U	1.21	0.628 U	11.9
SELENIUM, TOTAL	mg/L	< 0.0014	< 0.0014	0.002 J	0.027	< 0.0014	0.0039 J	0.0063	0.0015 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	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

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 5C**  
**ANALYTICAL DATA SUMMARY**  
**Ash Pond 2 and 3/4 - January 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
		1/25/2022	1/24/2022	1/24/2022	1/20/2022	1/24/2022	1/20/2022	1/20/2022	6/6/2022
<b>Appendix III</b>									
BORON, TOTAL	mg/L	1.2	12.3	6.8	0.6	0.49	0.55	1.9	0.2
CALCIUM, TOTAL	mg/L	40	89.9	88.2	40	107	83.6	158	48.3
CHLORIDE, TOTAL	mg/L	7.4	12.8	32.9	3.7	30.6	15.8	6	18.4
FLUORIDE, TOTAL	mg/L	< 0.05	< 0.05	< 0.05	0.11	0.38	0.59	< 0.05	0.2
pH	S.U.	5.84	6.05	5.99	6.43	7.11	5.77	5.28	6.02
SULFATE, TOTAL	mg/L	132	276	277	93.1	238	293	475	97.7
TOTAL DISSOLVED SOLIDS	mg/L	295	552	502	309	566	553	816	307
<b>Appendix IV</b>									
ANTIMONY, TOTAL	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
ARSENIC, TOTAL	mg/L	< 0.0011	< 0.0011	< 0.0011	0.0026 J	0.0022 J	0.0027 J	0.0016 J	< 0.0022
BARIIUM, TOTAL	mg/L	0.02	0.092	0.056	0.047	0.038	0.015	0.025	0.039
BERYLLIUM, TOTAL	mg/L	0.00011 J	< 0.000054	< 0.000054	0.000071 J	< 0.000054	0.011	0.0011	0.00024 J
CADMIUM, TOTAL	mg/L	0.00012 J	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.00029 J	0.00098	< 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	0.00088 J	0.00061 J	< 0.00039	0.00041 J	0.24	0.0045 J	0.006
FLUORIDE, TOTAL	mg/L	< 0.050	< 0.050	< 0.050	0.11	0.38	0.59	< 0.050	0.2
LEAD, TOTAL	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	0.0055 J	0.015 J	0.014 J	0.014 J	0.026 J	0.081	0.079	0.013
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	0.0012 J	0.0052 J	< 0.00074	< 0.00074	< 0.00074
RADIUM (226 + 228)	pCi/L	0.454 U	1.14 U	0.812 U	16.2	5.68	9.86	1.21 U	13.1
SELENIUM, TOTAL	mg/L	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	0.0022 J	0.0021 J	< 0.0014
THALLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

- 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 5D**  
**ASSESSMENT MONITORING ANALYTICAL DATA SUMMARY**  
**Additional Sampling - January 2022**  
Georgia Power Company - Plant McDonough  
Atlanta, Georgia

Analyte	Units	SUPPLEMENTAL SAMPLING									
		B-90	B-91	B-95	B-96	B-99	B-116D	B-117D	B-118	B-119D	B-123D
		1/26/2022	1/26/2022	1/26/2022	1/26/2022	1/26/2022	1/19/2022	1/19/2022	1/19/2022	1/19/2022	6/6/2022
<b>Appendix III</b>											
BORON, TOTAL	mg/L	3.2	3.6	2	3.7	2.7	< 0.0086	< 0.0086	< 0.0086	0.012 J	0.55
CALCIUM, TOTAL	mg/L	--	--	--	--	--	10.7	9.7	5.1	16.1	90.4
CHLORIDE, TOTAL	mg/L	--	--	--	--	--	2.6	5	2.8	3.8	13.2
FLUORIDE, TOTAL	mg/L	--	--	--	--	--	< 0.05	0.058 J	< 0.05	0.099 J	0.48
pH	S.U.	5.45	5.29	5.33	5.01	5.67	6.04	6.02	6.01	6.61	6.48
SULFATE, TOTAL	mg/L	--	--	--	--	--	0.73 J	21.5	1.1	31.1	175
TOTAL DISSOLVED SOLIDS	mg/L	--	--	--	--	--	93	129	81	145	602
<b>Appendix IV</b>											
ANTIMONY, TOTAL	mg/L	--	--	--	--	--	< 0.00078	< 0.00078	0.002 J	0.0019 J	< 0.00078
ARSENIC, TOTAL	mg/L	--	--	--	--	--	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0022
BARIUM, TOTAL	mg/L	--	--	--	--	--	0.019	0.047	0.025	0.0047 J	0.0280
BERYLLIUM, TOTAL	mg/L	--	--	--	--	--	< 0.000054	< 0.000054	< 0.000054	< 0.000054	0.002
CADMIUM, TOTAL	mg/L	--	--	--	--	--	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
CHROMIUM, TOTAL	mg/L	--	--	--	--	--	< 0.0011	< 0.0011	0.0015 J	< 0.0011	< 0.0011
COBALT, TOTAL	mg/L	--	--	--	--	--	< 0.00039	< 0.00039	< 0.00039	0.00066 J	0.068
FLUORIDE, TOTAL	mg/L	--	--	--	--	--	< 0.050	0.058 J	< 0.050	0.099 J	0.48
LEAD, TOTAL	mg/L	--	--	--	--	--	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
LITHIUM, TOTAL	mg/L	--	--	--	--	--	0.0061 J	0.0085 J	0.0027 J	0.0031 J	0.031
MERCURY, TOTAL	mg/L	--	--	--	--	--	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	--	--	--	--	--	< 0.00074	< 0.00074	0.0056 J	0.02	0.0017 J
RADIUM (226 + 228)	pCi/L	--	--	--	--	--	1.04	0.125 U	0.832 U	0.858 U	2.08
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

Notes:

1. mg/L - Milligrams per Liter; pCi/L - picocuries per Liter; S.U. - Standard Units.
2. < indicates the substance was not detected above the analytical method detection limit (MDL). The value displayed is the method detection limit.
3. 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.
4. 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 6A**  
**SURFACE WATER ANALYTICAL DATA SUMMARY**  
**Ash Pond 2 and 3/4 - September 2021**  
 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
		9/7/2021	9/7/2021	9/7/2021	9/7/2021	9/7/2021	9/7/2021	9/7/2021
<b>Appendix III</b>								
Boron	mg/L	< 0.040	< 0.040	< 0.040	0.073	< 0.040	0.046	< 0.040
Calcium	mg/L	6.7	6.6	7.3	6.7	6.6	6.6	6.5
Chloride	mg/L	9.9	9.7	9.8	9.9	9.8	9.8	9.6
Fluoride	mg/L	0.14	0.14	0.14	0.14	0.14	0.13	0.14
Sulfate	mg/L	7.0	6.4	10.4	6.5	8.0	7.3	6.3
Total Dissolved Solids	mg/L	77.0	73.0	83.0	82.0	78.0	77.0	75.0
<b>Appendix IV</b>								
Arsenic	mg/L	< 0.0050	< 0.0050	--	--	--	< 0.0050	< 0.0050
Cobalt	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Molybdenum	mg/L	< 0.010	< 0.010	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	< 0.0050	< 0.0050
<b>Major Ions</b>								
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	26.6	26.9	26.4	28.0	26.8	27.5	27.1
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	mg/L	26.6	26.9	26.4	28.0	26.8	27.5	27.1
Magnesium	mg/L	2.9	2.7	2.9	2.8	2.7	2.8	2.6
Potassium	mg/L	3.4	3.3	3.2	3.4	3.2	3.3	3.1
Sodium	mg/L	10.0	9.9	9.6	10.1	9.4	9.7	9.2

Notes:

mg/L = milligrams per liter; ug/L - micrograms per liter; S. U. - Standard Units

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

"--" = analysis was not performed

**TABLE 6B**  
**SURFACE WATER ANALYTICAL DATA SUMMARY**  
**Ash Pond 2 and 3/4 - January 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
		1/25/2022	1/25/2022	1/25/2022	1/25/2022	1/25/2022	1/25/2022	1/25/2022
<b>Appendix III</b>								
Boron	mg/L	< 0.040	0.062	0.070	< 0.040	< 0.040	< 0.040	0.046
Calcium	mg/L	5.3	7.8	7.7	5.1	6.0	5.1	6.6
Chloride	mg/L	8.1	10.0	11.4	7.8	9.5	7.9	8.2
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Sulfate	mg/L	5.5	9.3	10.4	4.7	7.0	4.7	9.3
Total Dissolved Solids	mg/L	55.0	63.0	83.0	59.0	65.0	61.0	59.0
<b>Appendix IV</b>								
Arsenic	mg/L	< 0.0050	--	--	--	--	< 0.0050	< 0.0050
Cobalt	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Molybdenum	mg/L	< 0.010	--	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--	< 0.0050	< 0.0050
<b>Major Ions</b>								
Alkalinity, Total as CaCO3	mg/L	23.4	24.2	25.8	22.4	24.4	20.4	23.3
Alkalinity, Bicarbonate (CaCO3)	mg/L	23.4	24.2	25.8	22.4	24.4	20.4	23.3
Magnesium	mg/L	2.0	2.5	2.9	1.9	2.3	1.9	2.1
Potassium	mg/L	2.8	2.8	3.7	2.8	3.1	2.8	2.8
Sodium	mg/L	7.7	8.9	10.7	7.4	8.3	7.4	7.5

Notes:

mg/L = milligrams per liter; ug/L - micrograms per liter; S. U. - Standard Units

< 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 2021 <sup>[1]</sup>	Site Specific Background January 2022 <sup>[1]</sup>	GWPS <sup>[2]</sup> January 2022
Antimony	mg/L	0.006	--	0.003 <sup>[3]</sup>	0.003 <sup>[3]</sup>	0.006
Arsenic	mg/L	0.01	--	0.005 <sup>[3]</sup>	0.005 <sup>[3]</sup>	0.01
Barium	mg/L	2	--	0.19	0.19	2
Beryllium	mg/L	0.004	--	0.0009	0.0009	0.004
Cadmium	mg/L	0.005	--	0.0005 <sup>[3]</sup>	0.0005 <sup>[3]</sup>	0.005
Chromium	mg/L	0.1	--	0.005 <sup>[3]</sup>	0.005 <sup>[3]</sup>	0.1
Cobalt	mg/L	NA	0.006	0.032	0.032	0.032
Fluoride	mg/L	4	--	0.42	0.42	4
Lead	mg/L	NA	0.015	0.001 <sup>[3]</sup>	0.001 <sup>[3]</sup>	0.015
Lithium	mg/L	NA	0.04	0.03 <sup>[3]</sup>	0.03 <sup>[3]</sup>	0.04
Mercury	mg/L	0.002	--	0.0002 <sup>[3]</sup>	0.0002 <sup>[3]</sup>	0.002
Molybdenum	mg/L	NA	0.1	0.041	0.041	0.1
Radium (226 + 228)	pCi/L	5	--	5.61	4.98	5.00
Selenium	mg/L	0.05	--	0.005 <sup>[3]</sup>	0.005 <sup>[3]</sup>	0.05
Thallium	mg/L	0.002	--	0.001 <sup>[3]</sup>	0.001 <sup>[3]</sup>	0.002

Notes:

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

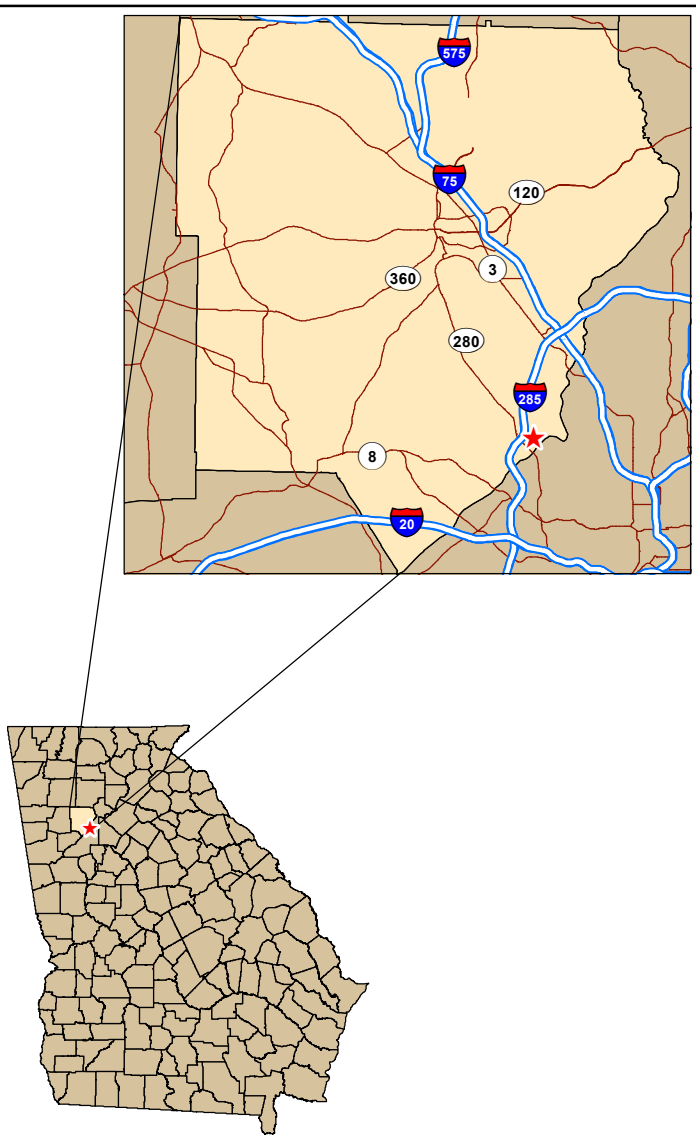
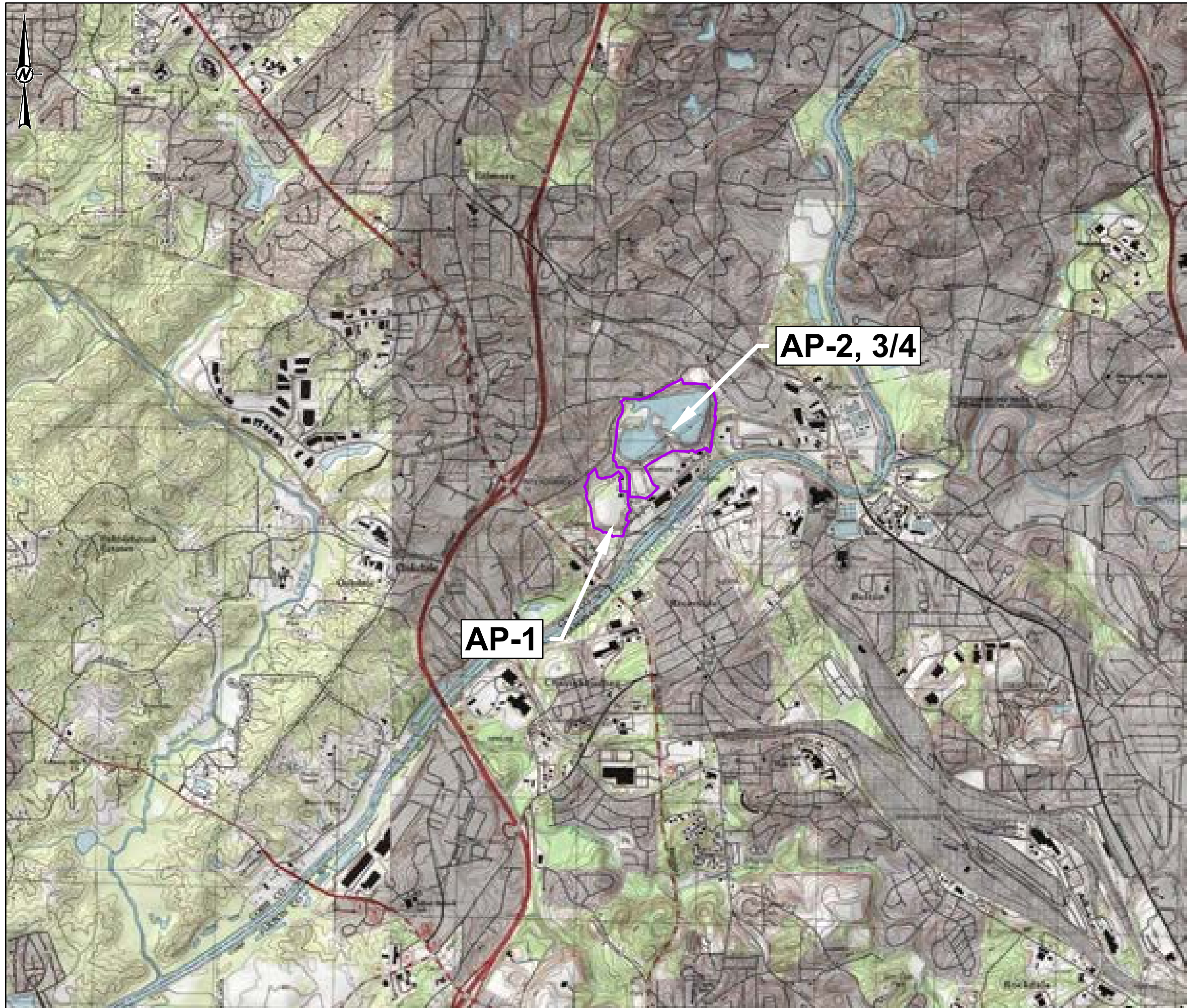
[1] The background limits are used when determining the groundwater protection standard (GWPS) under 40 CFR § 257.95(h) and 391-3-4-.10(6)(a).

[2] Under existing EPD rules, the GWPS is: (i) the MCL or RSL, (ii) where the MCL or RSL is not established, the background concentration, or (iii) background levels for constituents where the background level is higher than the MCL or RSL.

[3] 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. We also note that the values reported herein have been updated from the previously established GWPS which was determined based on estimated data. The modified GWPS also reflects additional outlier identification.

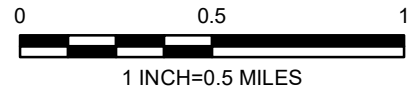
## Figures





**REFERENCE**

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



CLIENT  
 GEORGIA POWER COMPANY PLANT  
 MCDONOUGH-ATKINSON



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

**TITLE**  
**SITE LOCATION MAP**

CONSULTANT	YYYY-MM-DD	2022-4-26
<b>wsp GOLDER</b>	PREPARED	SEB
	DESIGN	SEB
	CHECKED	DP
	REVIEWED/APPROVED	RPK



### 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 FEBRUARY 28, 2022.


### NOTES

- EXISTING TOPOGRAPHIC CONTOUR INTERVAL = 1 FOOT.
- 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 ANTICIPATED BY 2023, PENDING PERMIT ISSUANCE. 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. AP-2 CLOSURE CERTIFICATION WAS COMPLETE IN OCTOBER 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

- APPROXIMATE PROPERTY BOUNDARY PROVIDED BY SOUTHERN COMPANY SERVICES (2017).
- THE EXISTING TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO., INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 03-18-2018. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 09-07-2018.
- SELECT BORING/PIEZOMETER LOCATIONS AND ELEVATIONS RESURVEYED BY METRO ENGINEERING & SURVEYING CO., INC., 2020 / 2021.
- COORDINATES SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET); ELEVATIONS DISPLAY IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM 1988 ( FEET NAVD88).
- AERIAL IMAGERY SOURCE: GOOGLE EARTH © PRO 2010, IMAGE DATED 09/5/2019. IMAGE GEORECTIFIED BY GOLDER AND INTENDED FOR INDICATIVE PURPOSES ONLY.

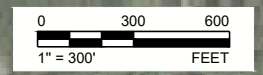
CLIENT  
**GEORGIA POWER COMPANY**  
 PLANT MCDONOUGH - ATKINSON



PROJECT  
**2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTIONS REPORT ASH POND 2 AND ASH POND 3/4**

TITLE  
**PLANT MCDONOUGH CCR REMOVAL AREA**

CONSULTANT	YYYY-MM-DD	2021/07/21
	DESIGNED	CCP
	PREPARED	CRP
	CHECKED	DLP
	REVIEWED / APPROVED	GLH



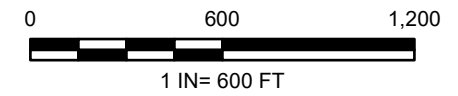
1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM A3S D



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

**NOTES**  
 1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

**REFERENCE**  
 1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND JUNE 23, 2022 FROM COOPER, BARNETTE & PAGE, INC. (CBP).  
 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.



CLIENT  
 GEORGIA POWER COMPANY  
 PLANT MCDONOUGH



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

TITLE  
**MONITORING WELL, PIEZOMETER AND SURFACE WATER LOCATION MAP**

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

ALL MEASUREMENTS ARE SHOWN. THIS SHEET HAS BEEN MODIFIED FROM ANS.B



- 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 JUNE 23, 2022 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
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.



CLIENT  
 GEORGIA POWER COMPANY  
 PLANT MCDONOUGH

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

TITLE  
**(INSET) MONITORING WELL, PIEZOMETER AND SURFACE WATER LOCATION MAP**

CONSULTANT  
**WSP GOLDER**

YYYY-MM-DD 7/18/2022  
 PREPARED SEB  
 DESIGN DAH  
 CHECKED TR  
 REVIEW/APPROVED RPK

PROJECT NO. 166849621 CONTROL REV. 0 FIGURE 3A

THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN. THE SHEET HAS BEEN MODIFIED FROM ANS B



**LEGEND**

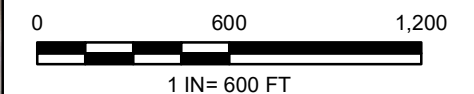
- ◆ AP-1 MONITORING WELL
- ◆ AP-2,3/4 MONITORING WELL
- ◆ UPGRADIENT WELL
- ▲ ASSESSMENT MONITORING WELLS
- ◆ PIEZOMETER
- ▲ DEWATERING WELL
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- GROUNDWATER SURFACE CONTOUR (FT-NAVD)
- SURFACE WATER STREAM
- - - PERMIT BOUNDARY
- - - PROPERTY BOUNDARY
- EXISTING TOPOGRAPHY 5-FOOT CONTOUR
- EXISTING TOPOGRAPHY 1-FOOT CONTOUR

**NOTES**

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED OCTOBER 27, 2021 BY GOLDBER ASSOCIATES.
3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM (FT NAVD).
4. WELLS 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 04, 2021 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
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.



CLIENT  
 GEORGIA POWER COMPANY  
 PLANT MCDONOUGH-ATKINSON



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

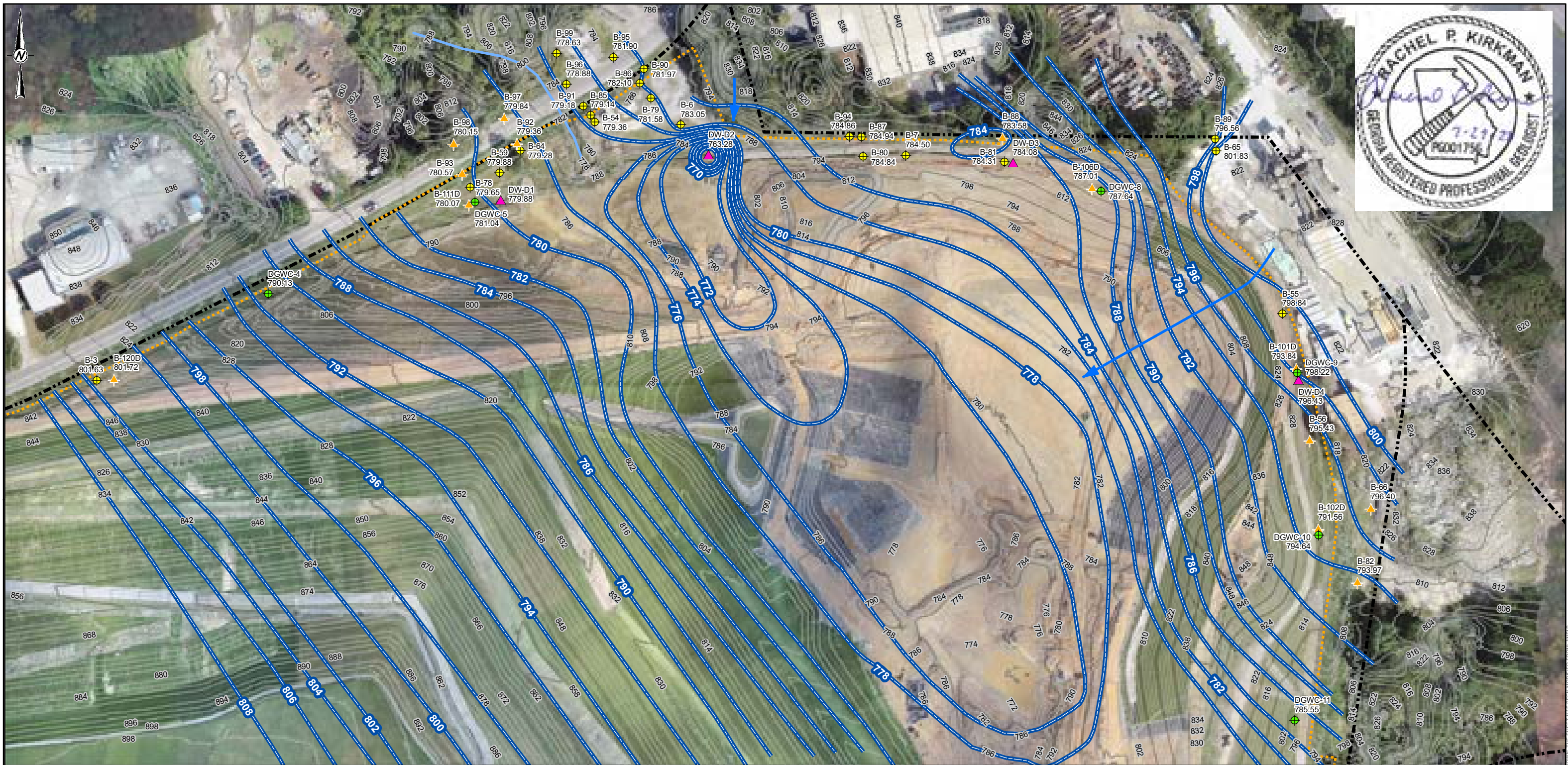
TITLE  
**SITE POTENTIOMETRIC MAP – OCTOBER 27, 2021**

CONSULTANT	DATE	REVISION
	YYYY-MM-DD	2021-10-29
	PREPARED	SEB
	DESIGN	SEB
	CHECKED	BAS
	REVIEWED/APPROVED	RPK

PROJECT No. 166849621      Rev. 0      FIGURE 4A



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



- 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-NAVD)
  - EXISTING TOPOGRAPHY 10-FOOT CONTOUR
  - EXISTING TOPOGRAPHY 2-FOOT CONTOUR
  - SURFACE WATER STREAM
  - PERMIT BOUNDARY
  - PROPERTY BOUNDARY

- NOTES**
1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
  2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED OCTOBER 27, 2021 BY GOLDER ASSOCIATES.
  3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM (FT NAVD).
  4. WELLS 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 OCTOBER 08, 2021 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
  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.



<b>CLIENT</b>			
GEORGIA POWER COMPANY PLANT MCDONOUGH-ATKINSON			
<b>PROJECT</b>			
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4			
<b>TITLE</b>			
<b>(INSET) SITE POTENTIOMETRIC MAP OCTOBER 27, 2021</b>			
<b>CONSULTANT</b>		YYYY-MM-DD	2/10/2022
		PREPARED	SEB
		DESIGN	SEB
		CHECKED	DLP
		REVIEW/APPROVED	RPK
<b>PROJECT NO.</b>	<b>CONTROL</b>	<b>REV.</b>	<b>FIGURE</b>
166849621		0	4B

VERTICAL MEASUREMENT DOES NOT MATCH WHAT IS SHOWN. THE SHEET HAS BEEN MODIFIED FROM ANS18

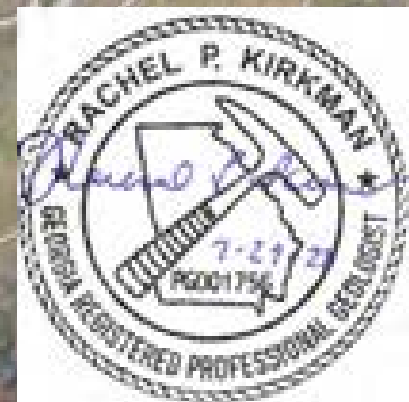
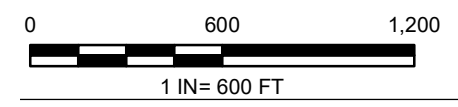


**LEGEND**

- ◆ 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**
- ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
  - GROUNDWATER ELEVATION MEASUREMENTS OBTAINED JANUARY 18, 2022 BY GOLDER ASSOCIATES.
  - GROUNDWATER ELEVATIONS DISPLAYED IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM (FT NAVD88).
  - WELLS AND PIEZOMETERS THAT CONTAIN A "D" DESIGNATION FOLLOWING THE NUMBER ARE DEEP WELLS AND ELEVATIONS ARE NOT USED FOR CONTOURING.
  - BTOP= BELOW TOP OF PUMP.

- REFERENCE**
- AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND FEBRUARY 8, 2022 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
  - COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
  - MONITORING WELL/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY.



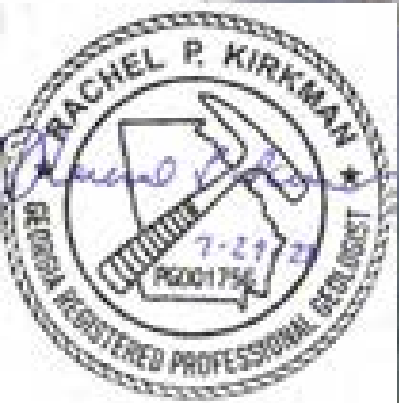
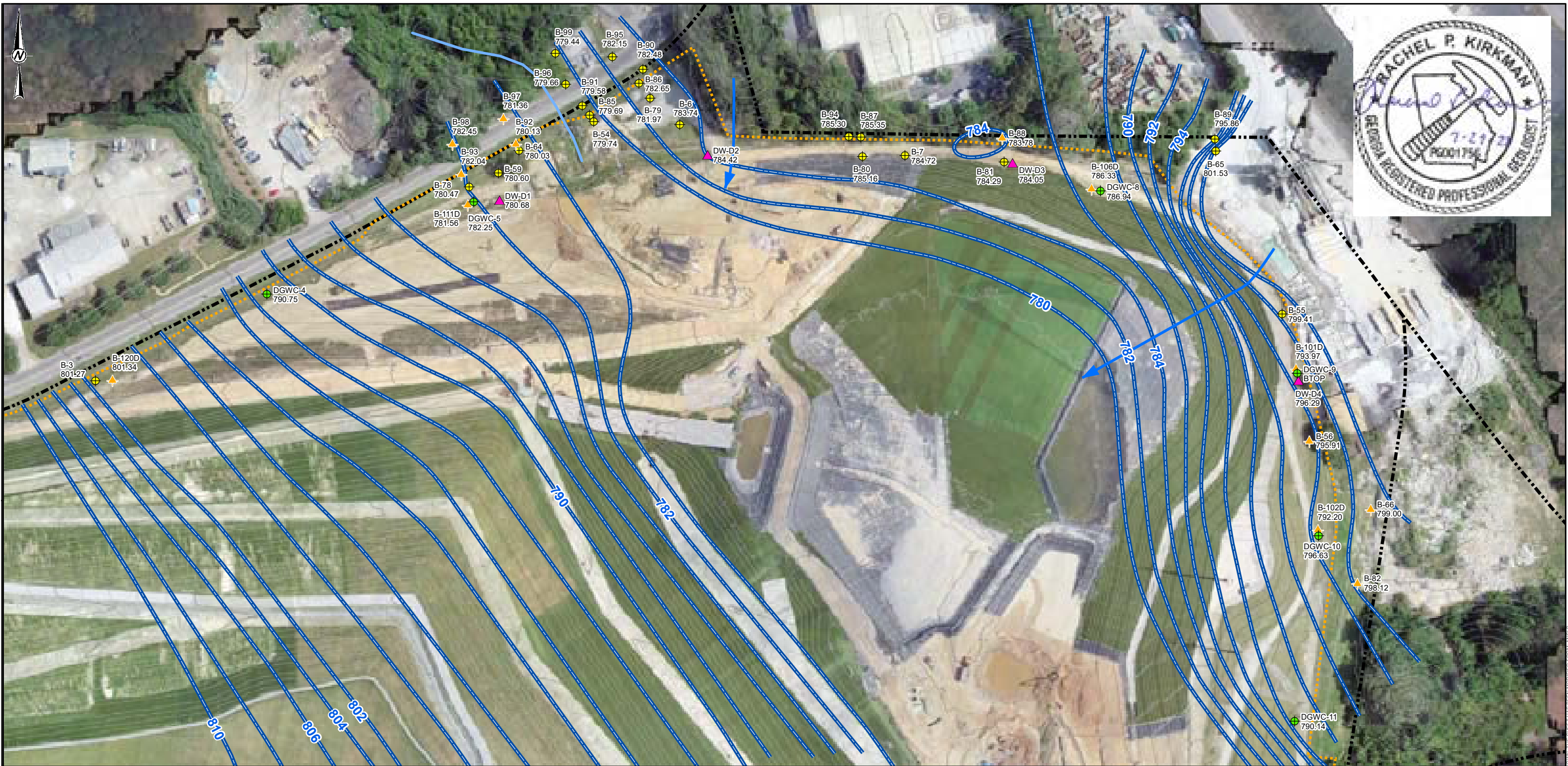
CLIENT  
 GEORGIA POWER COMPANY PLANT  
 MCDONOUGH-ATKINSON

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

TITLE  
**SITE POTENTIOMETRIC MAP – JANUARY 18, 2022**

CONSULTANT	YYYY-MM-DD	2022-02-11
	PREPARED	SEB
	DESIGN	SEB
	CHECKED	BAS
	REVIEWED/APPROVED	RPK

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



**LEGEND**

- ◆ AP-1 MONITORING WELL
- ◆ AP-2,3/4 MONITORING WELL
- ◆ UPGRADIENT WELL
- ▲ ASSESSMENT MONITORING WELLS
- ⊕ PIEZOMETER
- ▲ DEWATERING WELL
- GROUNDWATER SURFACE CONTOUR (FT-NAVD88)
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- 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 JANUARY 18, 2022 BY GOLDBER ASSOCIATES.
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. BTOP = BELOW TOP OF PUMP.

**REFERENCE**

1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND FEBRUARY 8, 2022 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
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.



CLIENT  
 GEORGIA POWER COMPANY PLANT  
 MCDONOUGH-ATKINSON  
 PROJECT  
 2022 ANNUAL GROUNDWATER MONITORING AND  
 CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4



TITLE  
**(INSET) SITE POTENTIOMETRIC MAP**  
**JANUARY 18, 2022**

CONSULTANT	YYYY-MM-DD	7/18/2022
	PREPARED	SEB
	DESIGN	SEB
	CHECKED	DLP
	REVIEW/APPROVED	RPK

PROJECT NO. CONTROL REV. FIGURE  
 166849621 0 5B

THE MEASUREMENT DOES NOT MATCH WHAT IS SHOWN. THE SHEET HAS BEEN MODIFIED FROM ANS B



**APPENDIX A**

# Field Data Forms and Instrument Calibration Forms

**APPENDIX A**

**Field Data Forms September 2021**

# Low-Flow Test Report:

Test Date / Time: 9/9/2021 12:28:47 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: DGWA-53</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 26.84 ft</b> <b>Total Depth: 36.84 ft</b> <b>Initial Depth to Water: 13.75 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 31 ft</b> <b>Estimated Total Volume Pumped: 22.71 L</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min Final Draw Down: 0.85 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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## Test Notes:

DGWA-53 purged dry, and was sampled following recovery after 24-hours.

## 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	
9/9/2021 12:28 PM	00:00	6.41 pH	24.27 °C	197.99 µS/cm	1.50 mg/L	4.50 NTU	14.7 mV	14.60 ft	100.00 ml/min
9/9/2021 12:29 PM	01:00	6.41 pH	23.38 °C	198.00 µS/cm	1.41 mg/L	4.50 NTU	16.7 mV	14.60 ft	100.00 ml/min
<del>9/9/2021 12:30 PM</del>	<del>02:00</del>	<del>6.40 pH</del>	<del>22.38 °C</del>	<del>200.14 µS/cm</del>	<del>1.37 mg/L</del>	<del>4.50 NTU</del>	<del>16.1 mV</del>	<del>14.60 ft</del>	<del>100.00 ml/min</del>

## Samples

Sample ID:	Description:
DGWA-53	

# Low-Flow Test Report:

Test Date / Time: 9/9/2021 2:36:19 PM

Project: Plant McDonough (4)

Operator Name: D Fulton

<b>Location Name: DGWA-70A</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 52.41 ft</b> <b>Total Depth: 62.41 ft</b> <b>Initial Depth to Water: 40.75 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 57 ft</b> <b>Estimated Total Volume Pumped: 6.25 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 300 ml/min</b> <b>Final Draw Down: 0.82 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850767</b>
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## Test Notes:

## Weather Conditions:

Clear, 84

## 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	
9/9/2021 2:36 PM	00:00	5.53 pH	21.22 °C	62.61 µS/cm	5.67 mg/L	1.24 NTU	153.9 mV	41.53 ft	350.00 ml/min
9/9/2021 2:41 PM	05:00	5.49 pH	18.52 °C	63.87 µS/cm	4.83 mg/L	0.36 NTU	98.2 mV	41.55 ft	300.00 ml/min
9/9/2021 2:46 PM	10:00	5.49 pH	18.48 °C	66.22 µS/cm	4.85 mg/L	0.54 NTU	91.9 mV	41.57 ft	300.00 ml/min
9/9/2021 2:51 PM	15:00	5.50 pH	18.21 °C	67.21 µS/cm	4.88 mg/L	0.62 NTU	90.6 mV	41.57 ft	300.00 ml/min
9/9/2021 2:56 PM	20:00	5.50 pH	18.30 °C	67.29 µS/cm	4.91 mg/L	0.65 NTU	90.7 mV	41.57 ft	300.00 ml/min

## Samples

Sample ID:	Description:
DGWA-70A	

# Low-Flow Test Report:

Test Date / Time: 9/8/2021 12:55:50 PM

Project: Plant McDonough (2)

Operator Name: Erik Rheams

<b>Location Name: DGWA-71</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.79 ft</b> <b>Total Depth: 47.79 ft</b> <b>Initial Depth to Water: 27.76 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 42.79 ft</b> <b>Estimated Total Volume Pumped: 22990 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 220 ml/min</b> <b>Final Draw Down: 0.46 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850751</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/8/2021 12:55 PM	00:00	7.67 pH	32.77 °C	0.00 µS/cm	6.32 mg/L	2.06 NTU	-47.1 mV	27.76 ft	220.00 ml/min
9/8/2021 1:00 PM	05:00	6.25 pH	24.97 °C	0.00 µS/cm	6.91 mg/L	2.17 NTU	-632.9 mV	28.22 ft	220.00 ml/min
9/8/2021 1:05 PM	10:00	6.08 pH	22.47 °C	0.00 µS/cm	6.37 mg/L	2.27 NTU	-283.1 mV	28.22 ft	220.00 ml/min
9/8/2021 1:10 PM	15:00	6.13 pH	21.45 °C	0.00 µS/cm	6.51 mg/L	1.45 NTU	93.6 mV	28.22 ft	220.00 ml/min
9/8/2021 1:15 PM	20:00	5.81 pH	20.07 °C	81.38 µS/cm	3.40 mg/L	1.62 NTU	192.2 mV	28.22 ft	220.00 ml/min
9/8/2021 1:20 PM	25:00	5.75 pH	19.58 °C	78.19 µS/cm	3.00 mg/L	2.74 NTU	176.0 mV	28.22 ft	220.00 ml/min
9/8/2021 1:25 PM	30:00	5.74 pH	19.44 °C	76.03 µS/cm	2.01 mg/L	3.54 NTU	163.5 mV	28.22 ft	220.00 ml/min
9/8/2021 1:45 PM	49:30	5.74 pH	19.51 °C	73.59 µS/cm	3.91 mg/L	2.32 NTU	131.9 mV	28.22 ft	220.00 ml/min
9/8/2021 1:50 PM	54:30	5.73 pH	19.54 °C	68.82 µS/cm	5.72 mg/L	1.99 NTU	146.8 mV	28.22 ft	220.00 ml/min
9/8/2021 1:55 PM	59:30	5.74 pH	19.63 °C	76.32 µS/cm	3.70 mg/L	3.55 NTU	140.8 mV	28.22 ft	220.00 ml/min
9/8/2021 2:00 PM	01:04:30	5.74 pH	19.46 °C	66.12 µS/cm	2.02 mg/L	4.23 NTU	137.9 mV	28.22 ft	220.00 ml/min
9/8/2021 2:05 PM	01:09:30	5.75 pH	20.13 °C	79.94 µS/cm	1.74 mg/L	4.01 NTU	132.0 mV	28.22 ft	220.00 ml/min
9/8/2021 2:10 PM	01:14:30	5.75 pH	20.12 °C	80.41 µS/cm	3.16 mg/L	3.28 NTU	130.5 mV	28.22 ft	220.00 ml/min
9/8/2021 2:15 PM	01:19:30	5.74 pH	20.39 °C	79.37 µS/cm	2.43 mg/L	3.01 NTU	127.3 mV	28.22 ft	220.00 ml/min
9/8/2021 2:20 PM	01:24:30	5.76 pH	20.39 °C	76.16 µS/cm	1.60 mg/L	2.81 NTU	124.9 mV	28.22 ft	220.00 ml/min

9/8/2021 2:25 PM	01:29:30	5.76 pH	20.77 °C	78.64 µS/cm	1.70 mg/L	3.27 NTU	127.3 mV	28.22 ft	220.00 ml/min
9/8/2021 2:30 PM	01:34:30	5.75 pH	20.84 °C	78.13 µS/cm	1.42 mg/L	4.50 NTU	160.1 mV	28.22 ft	220.00 ml/min
9/8/2021 2:35 PM	01:39:30	5.76 pH	20.71 °C	75.78 µS/cm	1.35 mg/L	2.70 NTU	131.9 mV	28.22 ft	220.00 ml/min
9/8/2021 2:40 PM	01:44:30	5.76 pH	20.69 °C	77.38 µS/cm	1.36 mg/L	1.88 NTU	128.8 mV	28.22 ft	220.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 9/9/2021 12:56:42 PM

Project: Plant McDonough

Operator Name: K. Minkara

<b>Location Name: DGWC-2</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 42.42 ft</b> <b>Total Depth: 52.42 ft</b> <b>Initial Depth to Water: 29.39 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 47 ft</b> <b>Estimated Total Volume Pumped: 4992 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 320 ml/min</b> <b>Final Draw Down: 0.76 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/9/2021 12:56 PM	00:00	6.29 pH	26.10 °C	345.41 µS/cm	4.06 mg/L	1.31 NTU	100.9 mV	29.39 ft	320.00 ml/min
9/9/2021 1:01 PM	05:00	6.02 pH	20.87 °C	355.17 µS/cm	0.67 mg/L	3.52 NTU	92.3 mV	30.11 ft	320.00 ml/min
9/9/2021 1:06 PM	10:00	6.00 pH	20.70 °C	355.33 µS/cm	0.25 mg/L	4.10 NTU	84.6 mV	30.15 ft	320.00 ml/min
9/9/2021 1:07 PM	10:36	5.99 pH	20.69 °C	359.82 µS/cm	0.25 mg/L	4.10 NTU	77.4 mV	30.15 ft	320.00 ml/min
9/9/2021 1:12 PM	15:36	6.00 pH	20.80 °C	372.41 µS/cm	0.20 mg/L	4.19 NTU	109.3 mV	30.15 ft	320.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 9/10/2021 10:47:56 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: DGWC-4</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 36.71 ft</b> <b>Total Depth: 46.71 ft</b> <b>Initial Depth to Water: 24.12 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 41 ft</b> <b>Estimated Total Volume Pumped: 5000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 0.3 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/10/2021 10:47 AM	00:00	6.57 pH	25.87 °C	1,364.0 µS/cm	4.04 mg/L	11.70 NTU	183.2 mV	24.12 ft	250.00 ml/min
9/10/2021 10:52 AM	05:00	5.93 pH	19.46 °C	1,631.7 µS/cm	0.78 mg/L	4.35 NTU	130.5 mV	24.40 ft	250.00 ml/min
9/10/2021 10:57 AM	10:00	5.84 pH	19.15 °C	1,747.3 µS/cm	0.59 mg/L	14.80 NTU	133.8 mV	24.42 ft	250.00 ml/min
9/10/2021 11:02 AM	15:00	5.84 pH	19.17 °C	1,761.1 µS/cm	0.51 mg/L	7.57 NTU	114.8 mV	24.42 ft	250.00 ml/min
9/10/2021 11:07 AM	20:00	5.83 pH	19.10 °C	1,768.7 µS/cm	0.42 mg/L	4.53 NTU	72.2 mV	24.42 ft	250.00 ml/min

## Samples

Sample ID:	Description:
DGWC-4	Dup-2



# Low-Flow Test Report:

Test Date / Time: 9/10/2021 2:02:23 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: DGWC-5</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 23.23 ft</b> <b>Total Depth: 33.23 ft</b> <b>Initial Depth to Water: 11.18 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 28 ft</b> <b>Estimated Total Volume Pumped: 7500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 0.32 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/10/2021 2:02 PM	00:00	4.89 pH	27.99 °C	508.90 µS/cm	4.25 mg/L	14.60 NTU	251.2 mV	11.18 ft	250.00 ml/min
9/10/2021 2:07 PM	05:00	4.88 pH	20.47 °C	821.09 µS/cm	1.58 mg/L	12.10 NTU	481.4 mV	11.45 ft	250.00 ml/min
9/10/2021 2:12 PM	10:00	4.88 pH	20.22 °C	904.78 µS/cm	0.84 mg/L	15.70 NTU	552.5 mV	11.50 ft	250.00 ml/min
9/10/2021 2:17 PM	15:00	4.89 pH	20.24 °C	924.80 µS/cm	0.51 mg/L	11.00 NTU	551.5 mV	11.50 ft	250.00 ml/min
9/10/2021 2:22 PM	20:00	4.89 pH	20.13 °C	927.01 µS/cm	0.46 mg/L	6.72 NTU	550.9 mV	11.50 ft	250.00 ml/min
9/10/2021 2:27 PM	25:00	4.89 pH	20.13 °C	933.48 µS/cm	0.44 mg/L	5.28 NTU	469.7 mV	11.50 ft	250.00 ml/min
9/10/2021 2:32 PM	30:00	4.89 pH	20.15 °C	942.71 µS/cm	0.44 mg/L	4.41 NTU	551.6 mV	11.50 ft	250.00 ml/min

## Samples

Sample ID:	Description:
DGWC-5	

# Low-Flow Test Report:

Test Date / Time: 9/13/2021 10:25:20 AM

Project: Plant McDonough (12)

Operator Name: Erik Rheams

<b>Location Name: DGWC-8</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 41.33 ft</b> <b>Total Depth: 51.33 ft</b> <b>Initial Depth to Water: 37.18 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 46 ft</b> <b>Estimated Total Volume Pumped: 7000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.14 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850751</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/13/2021 10:25 AM	00:00	5.20 pH	23.27 °C	403.63 µS/cm	3.87 mg/L	6.68 NTU	158.7 mV	37.18 ft	200.00 ml/min
9/13/2021 10:30 AM	05:00	5.11 pH	20.87 °C	389.61 µS/cm	2.23 mg/L	5.15 NTU	148.2 mV	37.29 ft	200.00 ml/min
9/13/2021 10:35 AM	10:00	5.07 pH	20.69 °C	391.33 µS/cm	1.56 mg/L	1.80 NTU	146.1 mV	37.32 ft	200.00 ml/min
9/13/2021 10:40 AM	15:00	5.05 pH	20.71 °C	394.32 µS/cm	1.27 mg/L	1.91 NTU	139.1 mV	37.32 ft	200.00 ml/min
9/13/2021 10:45 AM	20:00	5.04 pH	20.66 °C	396.19 µS/cm	1.16 mg/L	6.22 NTU	132.1 mV	37.32 ft	200.00 ml/min
9/13/2021 10:50 AM	25:00	5.04 pH	20.69 °C	396.09 µS/cm	0.99 mg/L	1.44 NTU	127.3 mV	37.32 ft	200.00 ml/min
9/13/2021 10:55 AM	30:00	5.04 pH	20.85 °C	397.25 µS/cm	0.87 mg/L	1.43 NTU	124.6 mV	37.32 ft	200.00 ml/min
9/13/2021 11:00 AM	35:00	5.05 pH	20.84 °C	395.76 µS/cm	0.82 mg/L	1.06 NTU	121.3 mV	37.32 ft	200.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 9/10/2021 10:47:02 AM

Project: Plant McDonough

Operator Name: K. Minkara

<b>Location Name: DGWC-9</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 23.73 ft</b> <b>Total Depth: 33.73 ft</b> <b>Initial Depth to Water: 24.2 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 28 ft</b> <b>Estimated Total Volume Pumped: 18000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 400 ml/min</b> <b>Final Draw Down: 0.96 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/10/2021 10:47 AM	00:00	3.85 pH	22.49 °C	571.30 µS/cm	7.18 mg/L	0.09 NTU	222.1 mV	24.20 ft	400.00 ml/min
9/10/2021 10:52 AM	05:00	3.96 pH	18.88 °C	635.09 µS/cm	4.53 mg/L	19.20 NTU	219.1 mV	25.16 ft	400.00 ml/min
9/10/2021 10:57 AM	10:00	3.96 pH	18.97 °C	658.87 µS/cm	3.18 mg/L	11.86 NTU	306.3 mV	25.16 ft	400.00 ml/min
9/10/2021 11:02 AM	15:00	3.97 pH	18.99 °C	660.98 µS/cm	3.03 mg/L	6.40 NTU	317.2 mV	25.16 ft	400.00 ml/min
9/10/2021 11:07 AM	20:00	3.97 pH	19.06 °C	658.91 µS/cm	2.97 mg/L	2.55 NTU	218.7 mV	25.16 ft	400.00 ml/min
9/10/2021 11:12 AM	25:00	3.97 pH	19.08 °C	656.16 µS/cm	2.90 mg/L	2.64 NTU	336.6 mV	25.16 ft	400.00 ml/min
9/10/2021 11:17 AM	30:00	3.98 pH	19.08 °C	655.04 µS/cm	2.84 mg/L	3.22 NTU	240.2 mV	25.16 ft	400.00 ml/min
9/10/2021 11:22 AM	35:00	3.98 pH	19.08 °C	653.03 µS/cm	2.78 mg/L	1.93 NTU	362.0 mV	25.16 ft	400.00 ml/min
9/10/2021 11:27 AM	40:00	3.98 pH	19.14 °C	650.98 µS/cm	2.72 mg/L	1.11 NTU	242.1 mV	25.16 ft	400.00 ml/min
9/10/2021 11:32 AM	45:00	3.98 pH	19.19 °C	649.01 µS/cm	2.66 mg/L	0.87 NTU	366.3 mV	25.16 ft	400.00 ml/min

## Samples

Sample ID:	Description:
DGWC-9	FB-2

# Low-Flow Test Report:

Test Date / Time: 9/10/2021 1:14:17 PM

Project: Plant McDonough

Operator Name: K. Minkara

<b>Location Name: DGWC-10</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.8 ft</b> <b>Total Depth: 47.8 ft</b> <b>Initial Depth to Water: 25.82 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 42.8 ft</b> <b>Estimated Total Volume Pumped: 4500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 300 ml/min</b> <b>Final Draw Down: 0.53 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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## Test Notes:

Extra rads here

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/10/2021 1:14 PM	00:00	5.13 pH	34.27 °C	527.60 µS/cm	5.14 mg/L	0.75 NTU	183.9 mV	25.82 ft	300.00 ml/min
9/10/2021 1:19 PM	05:00	5.08 pH	20.75 °C	645.03 µS/cm	6.18 mg/L	1.29 NTU	114.7 mV	26.30 ft	300.00 ml/min
9/10/2021 1:24 PM	10:00	5.06 pH	20.26 °C	644.79 µS/cm	6.15 mg/L	0.97 NTU	154.7 mV	26.35 ft	300.00 ml/min
9/10/2021 1:29 PM	15:00	5.05 pH	20.23 °C	647.24 µS/cm	6.10 mg/L	0.99 NTU	102.5 mV	26.35 ft	300.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 9/9/2021 9:26:32 AM

Project: Plant McDonough

Operator Name: K. Minkara

<b>Location Name: DGWC-11</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 41.72 ft</b> <b>Total Depth: 51.72 ft</b> <b>Initial Depth to Water: 12.49 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 46.72 ft</b> <b>Estimated Total Volume Pumped: 6500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.91 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/9/2021 9:26 AM	00:00	6.07 pH	24.30 °C	421.60 µS/cm	2.28 mg/L	4.37 NTU	127.9 mV	12.49 ft	260.00 ml/min
9/9/2021 9:31 AM	05:00	5.65 pH	20.23 °C	539.67 µS/cm	0.80 mg/L	5.25 NTU	100.4 mV	13.41 ft	260.00 ml/min
9/9/2021 9:36 AM	10:00	5.60 pH	20.05 °C	551.25 µS/cm	0.22 mg/L	7.84 NTU	105.1 mV	13.45 ft	180.00 ml/min
9/9/2021 9:41 AM	15:00	5.60 pH	20.93 °C	584.72 µS/cm	0.19 mg/L	7.69 NTU	66.8 mV	13.36 ft	200.00 ml/min
9/9/2021 9:46 AM	20:00	5.59 pH	20.42 °C	589.67 µS/cm	0.17 mg/L	5.34 NTU	79.1 mV	13.40 ft	200.00 ml/min
9/9/2021 9:51 AM	25:00	5.59 pH	20.57 °C	589.11 µS/cm	0.16 mg/L	6.12 NTU	57.3 mV	13.40 ft	200.00 ml/min
9/9/2021 9:56 AM	30:00	5.59 pH	20.72 °C	588.64 µS/cm	0.16 mg/L	4.59 NTU	54.4 mV	13.40 ft	200.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 9/9/2021 1:57:57 PM

Project: Plant McDonough

Operator Name: K. Minkara

<b>Location Name: DGWC-12</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 18.24 ft</b> <b>Total Depth: 28.24 ft</b> <b>Initial Depth to Water: 8.52 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 23.24 ft</b> <b>Estimated Total Volume Pumped: 10500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 350 ml/min</b> <b>Final Draw Down: 0.63 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/9/2021 1:57 PM	00:00	6.10 pH	21.37 °C	461.84 µS/cm	0.57 mg/L	70.50 NTU	37.4 mV	8.52 ft	350.00 ml/min
9/9/2021 2:02 PM	05:00	6.09 pH	20.70 °C	466.41 µS/cm	0.15 mg/L	50.50 NTU	21.9 mV	9.05 ft	350.00 ml/min
9/9/2021 2:07 PM	10:00	6.11 pH	20.57 °C	464.04 µS/cm	0.12 mg/L	20.40 NTU	15.3 mV	9.15 ft	350.00 ml/min
9/9/2021 2:12 PM	15:00	6.11 pH	20.48 °C	461.57 µS/cm	0.10 mg/L	11.89 NTU	12.4 mV	9.15 ft	350.00 ml/min
9/9/2021 2:17 PM	20:00	6.10 pH	20.39 °C	456.32 µS/cm	0.10 mg/L	7.26 NTU	16.5 mV	9.15 ft	350.00 ml/min
9/9/2021 2:22 PM	25:00	6.08 pH	20.48 °C	452.31 µS/cm	0.09 mg/L	4.54 NTU	17.4 mV	9.15 ft	350.00 ml/min
9/9/2021 2:27 PM	30:00	6.07 pH	20.43 °C	447.02 µS/cm	0.09 mg/L	4.19 NTU	14.8 mV	9.15 ft	350.00 ml/min

## Samples

Sample ID:	Description:
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# PURGING AND SAMPLING FORM

Project #: 100840021	Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>
Well ID #: <u>D6WV-13</u>	Date: <u>9-9-21</u>	Water Level (ft): <u>32.74</u>	Time (WL): <u>1450</u>
Physical Condition of Well: <u>Good</u>		Weather: <u>81°F Sunny</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>46.66</u>	Water Column (ft): <u>19.22</u>	Well Volume (gal): <u>432</u>
Start Purge: <u>1435</u>	End Purge: <u>1510</u>	Top of Pump (ft): <u>38.26</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>6L</u>	
Evacuation Equipment: <u>Dedicated</u>		Purging Personnel: <u>K. M. [Signature]</u>	
SmarTroll serial #: <u>850724</u>		LaMotte serial #: <u>1510-4111</u>	

## Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (R/BTOC)	Pumping Rate
<u>1430</u>									<del>400</del>	<u>400</u>
<u>1510</u>	<u>Clear</u>	<u>no</u>	<u>5.69</u>	<u>376.69</u>	<u>4.05</u>	<u>20.93</u>	<u>177.2</u>	<u>1.00</u>	<u>32.90</u>	<u>400</u>

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, report only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 23L purge water, water level ± 0.3 ft; Temp and ORP record only

## Sample Description

Sample ID: <u>D6WV-13</u>	Sample Date/Time: <u>9-9-21/1430</u>	Metals Date/Time: <u>9-9-21/1430</u>
Duplicate: <u>-</u>	Dup Date/Time: <u>-</u>	Final Turbidity NTU: <u>1.00</u>
Field Blank: <u>-</u>	Blank Date/Time: <u>-</u>	Turbidity Date/Time: <u>9-9-21/1510</u>

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)</u>
<u>1</u>	<u>250 mL plastic</u>	<u>-</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>1</u>	<u>500 mL plastic</u>	<u>-</u>	<u>TDS</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: [Signature]

# Low-Flow Test Report:

Test Date / Time: 9/9/2021 3:35:34 PM

Project: Plant McDonough

Operator Name: K. Minkara

<b>Location Name: DGWC-14</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 27.95 ft</b> <b>Total Depth: 37.95 ft</b> <b>Initial Depth to Water: 19.15 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 32 ft</b> <b>Estimated Total Volume Pumped: 6000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 400 ml/min</b> <b>Final Draw Down: 0.25 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/9/2021 3:35 PM	00:00	5.78 pH	22.80 °C	142.55 µS/cm	5.31 mg/L	3.04 NTU	139.6 mV	19.15 ft	400.00 ml/min
9/9/2021 3:40 PM	05:00	5.71 pH	20.26 °C	150.09 µS/cm	4.92 mg/L	2.18 NTU	101.7 mV	19.40 ft	400.00 ml/min
9/9/2021 3:45 PM	10:00	5.71 pH	20.04 °C	149.74 µS/cm	4.93 mg/L	2.12 NTU	95.6 mV	19.40 ft	400.00 ml/min
9/9/2021 3:50 PM	15:00	5.70 pH	20.00 °C	149.86 µS/cm	4.93 mg/L	2.02 NTU	94.0 mV	19.40 ft	400.00 ml/min

## Samples

Sample ID:	Description:
DGWC-14	EB-1



# Low-Flow Test Report:

Test Date / Time: 9/9/2021 1:34:06 PM

Project: Plant McDonough (6)

Operator Name: Erik Rheams

<b>Location Name: DGWC-15</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 60.83 ft</b> <b>Total Depth: 70.83 ft</b> <b>Initial Depth to Water: 39.48 ft</b>	<b>Pump Type: dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 65 ft</b> <b>Estimated Total Volume Pumped: 3000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 1.42 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850751</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/9/2021 1:34 PM	00:00	5.89 pH	27.85 °C	401.38 µS/cm	2.77 mg/L	2.12 NTU	127.1 mV	39.48 ft	200.00 ml/min
9/9/2021 1:39 PM	05:00	5.85 pH	22.11 °C	431.98 µS/cm	0.74 mg/L	8.35 NTU	107.6 mV	40.69 ft	200.00 ml/min
9/9/2021 1:44 PM	10:00	5.83 pH	21.96 °C	423.94 µS/cm	0.58 mg/L	3.66 NTU	118.4 mV	40.90 ft	200.00 ml/min
9/9/2021 1:49 PM	15:00	5.83 pH	21.64 °C	424.16 µS/cm	0.49 mg/L	2.34 NTU	114.9 mV	40.90 ft	200.00 ml/min

## Samples

Sample ID:	Description:
DGWC-15	FB-1

# Low-Flow Test Report:

Test Date / Time: 9/13/2021 10:34:17 AM

Project: Plant McDonough (9)

Operator Name: D Fulton

<b>Location Name: DGWC-17</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.95 ft</b> <b>Total Depth: 47.95 ft</b> <b>Initial Depth to Water: 34.07 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 42 ft</b> <b>Estimated Total Volume Pumped: 9.0 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 300 ml/min</b> <b>Final Draw Down: 0.78 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850767</b>
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## Test Notes:

## Weather Conditions:

Clear, 70 s

## 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	
9/13/2021 10:34 AM	00:00	5.43 pH	27.73 °C	503.78 µS/cm	4.64 mg/L	9.15 NTU	150.8 mV	34.52 ft	300.00 ml/min
9/13/2021 10:39 AM	05:00	5.10 pH	20.47 °C	587.76 µS/cm	1.15 mg/L	8.52 NTU	163.4 mV	34.48 ft	300.00 ml/min
9/13/2021 10:44 AM	10:00	5.08 pH	20.04 °C	597.65 µS/cm	0.82 mg/L	7.09 NTU	129.8 mV	34.90 ft	300.00 ml/min
9/13/2021 10:49 AM	15:00	5.08 pH	19.97 °C	598.96 µS/cm	0.82 mg/L	3.90 NTU	114.1 mV	34.90 ft	300.00 ml/min
9/13/2021 10:54 AM	20:00	5.07 pH	19.95 °C	598.80 µS/cm	0.70 mg/L	2.51 NTU	103.3 mV	34.85 ft	300.00 ml/min
9/13/2021 10:59 AM	25:00	5.08 pH	19.99 °C	594.65 µS/cm	0.55 mg/L	2.07 NTU	99.2 mV	34.85 ft	300.00 ml/min
9/13/2021 11:04 AM	30:00	5.06 pH	20.03 °C	598.52 µS/cm	0.60 mg/L	2.24 NTU	99.5 mV	34.85 ft	300.00 ml/min

## Samples

Sample ID:	Description:
DGWC-17	

# Low-Flow Test Report:

Test Date / Time: 9/9/2021 2:53:27 PM

Project: Plant McDonough (7)

Operator Name: Erik Rheams

<b>Location Name: DGWC-19</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 33.25 ft</b> <b>Total Depth: 43.25 ft</b> <b>Initial Depth to Water: 24.77 ft</b>	<b>Pump Type: dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 38 ft</b> <b>Estimated Total Volume Pumped: 9900 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 180 ml/min</b> <b>Final Draw Down: 0.21 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850751</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/9/2021 2:53 PM	00:00	4.83 pH	22.94 °C	724.74 µS/cm	1.80 mg/L	54.70 NTU	345.2 mV	24.77 ft	180.00 ml/min
9/9/2021 2:58 PM	05:00	4.81 pH	21.84 °C	746.52 µS/cm	0.52 mg/L	31.50 NTU	553.6 mV	24.98 ft	180.00 ml/min
9/9/2021 3:03 PM	10:00	4.81 pH	21.64 °C	745.16 µS/cm	0.38 mg/L	21.00 NTU	566.3 mV	24.98 ft	180.00 ml/min
9/9/2021 3:08 PM	15:00	4.81 pH	21.65 °C	744.14 µS/cm	0.33 mg/L	57.70 NTU	568.4 mV	24.98 ft	180.00 ml/min
9/9/2021 3:13 PM	20:00	4.82 pH	21.73 °C	740.28 µS/cm	0.34 mg/L	13.00 NTU	455.1 mV	24.98 ft	180.00 ml/min
9/9/2021 3:18 PM	25:00	4.80 pH	21.51 °C	730.44 µS/cm	0.35 mg/L	11.70 NTU	570.9 mV	24.98 ft	180.00 ml/min
9/9/2021 3:23 PM	30:00	4.81 pH	21.68 °C	724.19 µS/cm	0.33 mg/L	6.72 NTU	450.2 mV	24.98 ft	180.00 ml/min
9/9/2021 3:28 PM	35:00	4.80 pH	21.56 °C	716.03 µS/cm	0.33 mg/L	6.97 NTU	570.1 mV	24.98 ft	180.00 ml/min
9/9/2021 3:33 PM	40:00	4.81 pH	21.51 °C	712.60 µS/cm	0.31 mg/L	7.99 NTU	442.2 mV	24.98 ft	180.00 ml/min
9/9/2021 3:38 PM	45:00	4.79 pH	23.15 °C	714.39 µS/cm	0.33 mg/L	6.09 NTU	429.6 mV	24.98 ft	180.00 ml/min
9/9/2021 3:43 PM	50:00	4.83 pH	22.71 °C	690.15 µS/cm	0.45 mg/L	5.91 NTU	568.5 mV	24.98 ft	180.00 ml/min
9/9/2021 3:48 PM	55:00	4.82 pH	22.27 °C	692.04 µS/cm	0.41 mg/L	4.96 NTU	436.6 mV	24.98 ft	180.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 9/10/2021 12:28:20 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: DGWC-20</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 33.3 ft</b> <b>Total Depth: 43.3 ft</b> <b>Initial Depth to Water: 21.83 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 38 ft</b> <b>Estimated Total Volume Pumped: 5000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 1.39 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/10/2021 12:28 PM	00:00	4.83 pH	30.86 °C	807.66 µS/cm	3.25 mg/L	2.38 NTU	162.8 mV	21.83 ft	250.00 ml/min
9/10/2021 12:33 PM	05:00	4.72 pH	22.07 °C	890.82 µS/cm	0.24 mg/L	2.19 NTU	133.5 mV	22.84 ft	250.00 ml/min
9/10/2021 12:38 PM	10:00	4.71 pH	21.73 °C	908.91 µS/cm	0.17 mg/L	1.62 NTU	166.7 mV	23.06 ft	250.00 ml/min
9/10/2021 12:43 PM	15:00	4.69 pH	21.73 °C	896.79 µS/cm	0.14 mg/L	2.19 NTU	111.3 mV	23.20 ft	250.00 ml/min
9/10/2021 12:48 PM	20:00	4.67 pH	21.75 °C	892.33 µS/cm	0.13 mg/L	2.40 NTU	156.3 mV	23.22 ft	250.00 ml/min

## Samples

Sample ID:	Description:
DGWC-20	

# Low-Flow Test Report:

Test Date / Time: 9/9/2021 12:13:40 PM

Project: Plant McDonough (5)

Operator Name: Erik Rheams

<b>Location Name: DGWC-21</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 62 ft</b> <b>Total Depth: 72 ft</b> <b>Initial Depth to Water: 15.46 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 67 ft</b> <b>Estimated Total Volume Pumped: 6000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.34 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850751</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/9/2021 12:13 PM	00:00	6.17 pH	23.03 °C	450.63 µS/cm	3.10 mg/L	0.99 NTU	165.0 mV	15.46 ft	200.00 ml/min
9/9/2021 12:18 PM	05:00	5.91 pH	21.93 °C	531.53 µS/cm	0.42 mg/L	0.70 NTU	160.2 mV	15.78 ft	200.00 ml/min
9/9/2021 12:23 PM	10:00	5.84 pH	21.33 °C	559.94 µS/cm	0.27 mg/L	0.33 NTU	172.3 mV	15.80 ft	200.00 ml/min
9/9/2021 12:28 PM	15:00	5.79 pH	21.50 °C	591.35 µS/cm	0.22 mg/L	1.57 NTU	156.6 mV	15.80 ft	200.00 ml/min
9/9/2021 12:33 PM	20:00	5.76 pH	21.51 °C	616.64 µS/cm	0.19 mg/L	0.45 NTU	113.0 mV	15.80 ft	200.00 ml/min
9/9/2021 12:38 PM	25:00	5.75 pH	21.29 °C	630.33 µS/cm	0.16 mg/L	0.95 NTU	99.0 mV	15.80 ft	200.00 ml/min
9/9/2021 12:43 PM	30:00	5.73 pH	21.53 °C	634.11 µS/cm	0.15 mg/L	1.21 NTU	9.0 mV	15.80 ft	200.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 9/10/2021 12:33:07 PM

Project: Plant McDonough (7)

Operator Name: D Fulton

<b>Location Name: DGWC-22</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 53.45 ft</b> <b>Total Depth: 63.45 ft</b> <b>Initial Depth to Water: 20.26 ft</b>	<b>Pump Type: Bladder Pump</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 58 ft</b> <b>Estimated Total Volume Pumped: 6.25 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 0.32 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850767</b>
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## Test Notes:

## Weather Conditions:

Clear, 80s

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/10/2021 12:33 PM	00:00	5.68 pH	23.34 °C	624.42 µS/cm	1.46 mg/L	1.14 NTU	94.6 mV	20.54 ft	250.00 ml/min
9/10/2021 12:38 PM	05:00	5.65 pH	20.66 °C	636.64 µS/cm	0.48 mg/L	1.20 NTU	127.7 mV	20.58 ft	250.00 ml/min
9/10/2021 12:43 PM	10:00	5.65 pH	20.53 °C	628.41 µS/cm	0.34 mg/L	0.93 NTU	200.0 mV	20.58 ft	250.00 ml/min
9/10/2021 12:48 PM	15:00	5.65 pH	20.45 °C	629.79 µS/cm	0.25 mg/L	0.86 NTU	233.2 mV	20.58 ft	250.00 ml/min
9/10/2021 12:53 PM	20:00	5.66 pH	20.52 °C	619.34 µS/cm	0.20 mg/L	0.91 NTU	239.6 mV	20.58 ft	250.00 ml/min
9/10/2021 12:58 PM	25:00	5.65 pH	20.54 °C	622.77 µS/cm	0.17 mg/L	0.78 NTU	251.8 mV	20.58 ft	250.00 ml/min

## Samples

Sample ID:	Description:
DWGC-22	

# Low-Flow Test Report:

Test Date / Time: 9/9/2021 11:50:24 AM

Project: Plant McDonough

Operator Name: K. Minkara

<b>Location Name: DGWC-23</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 53.26 ft</b> <b>Total Depth: 63.26 ft</b> <b>Initial Depth to Water: 20.43 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 58 ft</b> <b>Estimated Total Volume Pumped: 6500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 3.72 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/9/2021 11:50 AM	00:00	6.06 pH	21.91 °C	675.52 µS/cm	1.72 mg/L	2.81 NTU	226.4 mV	20.43 ft	300.00 ml/min
9/9/2021 11:55 AM	05:00	6.02 pH	19.77 °C	667.83 µS/cm	0.65 mg/L	2.09 NTU	146.9 mV	23.00 ft	300.00 ml/min
9/9/2021 12:00 PM	10:00	6.05 pH	19.41 °C	659.71 µS/cm	0.68 mg/L	1.75 NTU	122.9 mV	23.80 ft	300.00 ml/min
9/9/2021 12:05 PM	15:00	6.03 pH	20.30 °C	665.19 µS/cm	0.69 mg/L	2.29 NTU	89.0 mV	24.20 ft	200.00 ml/min
9/9/2021 12:10 PM	20:00	6.02 pH	20.72 °C	663.00 µS/cm	0.56 mg/L	1.97 NTU	82.2 mV	24.14 ft	200.00 ml/min
9/9/2021 12:15 PM	25:00	6.00 pH	20.78 °C	660.71 µS/cm	0.43 mg/L	2.79 NTU	62.5 mV	24.15 ft	200.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

**Test Date / Time:** 9/13/2021 1:12:16 PM

**Project:** Plant McDonough (2)

**Operator Name:** E. Dhondt

<b>Location Name: DGWC-42</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 42.49 ft</b> <b>Total Depth: 52.49 ft</b> <b>Initial Depth to Water: 28.85 ft</b>	<b>Pump Type: Dedicated Bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 47.49 ft</b> <b>Estimated Total Volume Pumped: 31915.334 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 160 ml/min</b> <b>Final Draw Down: 1.0 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/13/2021 1:12 PM	00:00	5.20 pH	21.77 °C	738.39 µS/cm	0.72 mg/L	12.1 NTU	71.5 mV	28.85 ft	280.00 ml/min
9/13/2021 1:14 PM	02:40	5.23 pH	22.31 °C	748.45 µS/cm	0.94 mg/L	9.50 NTU	64.6 mV	29.25 ft	280.00 ml/min
9/13/2021 1:25 PM	13:00	5.15 pH	22.04 °C	699.23 µS/cm	0.83 mg/L	8.60 NTU	44.3 mV	30.20 ft	280.00 ml/min
9/13/2021 1:30 PM	18:00	5.13 pH	21.81 °C	706.24 µS/cm	0.75 mg/L	8.25 NTU	50.2 mV	30.20 ft	280.00 ml/min
9/13/2021 1:35 PM	23:00	5.13 pH	21.59 °C	728.03 µS/cm	0.62 mg/L	8.19 NTU	56.7 mV	30.20 ft	280.00 ml/min
9/13/2021 1:40 PM	28:00	5.12 pH	21.86 °C	709.28 µS/cm	0.62 mg/L	8.02 NTU	46.7 mV	30.20 ft	280.00 ml/min
9/13/2021 1:45 PM	33:00	5.12 pH	21.82 °C	710.10 µS/cm	0.53 mg/L	7.90 NTU	46.2 mV	30.20 ft	280.00 ml/min
9/13/2021 1:50 PM	38:00	5.12 pH	21.68 °C	718.42 µS/cm	0.49 mg/L	8.03 NTU	45.9 mV	30.20 ft	280.00 ml/min
9/13/2021 1:55 PM	43:00	5.13 pH	21.69 °C	708.12 µS/cm	0.57 mg/L	7.98 NTU	53.6 mV	30.20 ft	280.00 ml/min
9/13/2021 2:00 PM	48:00	5.13 pH	21.82 °C	701.93 µS/cm	0.52 mg/L	7.21 NTU	46.7 mV	30.20 ft	280.00 ml/min
9/13/2021 2:05 PM	52:55	5.12 pH	23.69 °C	722.36 µS/cm	0.69 mg/L	2.20 NTU	49.2 mV	29.15 ft	280.00 ml/min
9/13/2021 2:10 PM	57:55	5.12 pH	26.40 °C	710.46 µS/cm	0.59 mg/L	1.88 NTU	46.6 mV	29.46 ft	160.00 ml/min
9/13/2021 2:36 PM	01:23:59	5.13 pH	37.02 °C	733.10 µS/cm	1.05 mg/L	2.04 NTU	50.9 mV	29.65 ft	160.00 ml/min
9/13/2021 2:41 PM	01:28:59	5.17 pH	27.79 °C	668.16 µS/cm	1.12 mg/L	2.72 NTU	94.1 mV	29.80 ft	160.00 ml/min
9/13/2021 2:46 PM	01:33:59	5.15 pH	22.84 °C	714.36 µS/cm	0.93 mg/L	1.65 NTU	81.2 mV	29.80 ft	160.00 ml/min
9/13/2021 2:51 PM	01:38:59	5.15 pH	22.94 °C	719.58 µS/cm	0.93 mg/L	1.94 NTU	75.3 mV	29.85 ft	160.00 ml/min

9/13/2021 2:56 PM	01:43:59	5.15 pH	22.71 °C	723.12 µS/cm	0.83 mg/L	1.94 NTU	71.4 mV	29.85 ft	160.00 ml/min
9/13/2021 3:01 PM	01:48:59	5.15 pH	22.85 °C	708.11 µS/cm	0.80 mg/L	2.65 NTU	72.4 mV	29.85 ft	160.00 ml/min
<del>9/13/2021 3:06 PM</del>	<del>01:53:59</del>	<del>5.15 pH</del>	<del>22.58 °C</del>	<del>706.57 µS/cm</del>	<del>0.76 mg/L</del>	<del>2.65 NTU</del>	<del>68.8 mV</del>	<del>29.85 ft</del>	<del>160.00 ml/min</del>

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 9/10/2021 10:23:59 AM

Project: Plant McDonough (8)

Operator Name: Erik Rheams

<b>Location Name: DGWC-47</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 21.93 ft</b> <b>Total Depth: 31.93 ft</b> <b>Initial Depth to Water: 17.34 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 26 ft</b> <b>Estimated Total Volume Pumped: 3500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 1.13 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850751</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/10/2021 10:23 AM	00:00	3.78 pH	26.51 °C	390.63 µS/cm	5.44 mg/L	5.48 NTU	256.2 mV	17.34 ft	100.00 ml/min
9/10/2021 10:28 AM	05:00	3.77 pH	24.33 °C	379.97 µS/cm	5.00 mg/L	1.47 NTU	258.9 mV	18.09 ft	100.00 ml/min
9/10/2021 10:33 AM	10:00	3.86 pH	24.02 °C	364.44 µS/cm	3.42 mg/L	1.64 NTU	266.5 mV	18.31 ft	100.00 ml/min
9/10/2021 10:38 AM	15:00	3.93 pH	23.76 °C	355.25 µS/cm	2.04 mg/L	2.06 NTU	336.6 mV	18.39 ft	100.00 ml/min
9/10/2021 10:43 AM	20:00	4.00 pH	23.66 °C	350.00 µS/cm	1.09 mg/L	3.25 NTU	342.3 mV	18.42 ft	100.00 ml/min
9/10/2021 10:48 AM	25:00	4.06 pH	23.79 °C	346.13 µS/cm	0.62 mg/L	3.21 NTU	354.0 mV	18.44 ft	100.00 ml/min
9/10/2021 10:53 AM	30:00	4.08 pH	23.71 °C	345.28 µS/cm	0.51 mg/L	2.91 NTU	346.5 mV	18.45 ft	100.00 ml/min
9/10/2021 10:58 AM	35:00	4.10 pH	23.63 °C	341.40 µS/cm	0.45 mg/L	2.50 NTU	314.6 mV	18.47 ft	100.00 ml/min

## Samples

Sample ID:	Description:
DGWC-47	EB-2

# Low-Flow Test Report:

Test Date / Time: 9/10/2021 10:21:53 AM

Project: Plant McDonough (6)

Operator Name: D Fulton

<b>Location Name: DGWC-48</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 23.49 ft</b> <b>Total Depth: 33.49 ft</b> <b>Initial Depth to Water: 13.24 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 28 ft</b> <b>Estimated Total Volume Pumped: 4.4 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 125 ml/min</b> <b>Final Draw Down: 0.54 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850767</b>
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## 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	
9/10/2021 10:21 AM	00:00	4.29 pH	22.80 °C	608.06 µS/cm	5.08 mg/L	0.77 NTU	244.2 mV	13.75 ft	225.00 ml/min
9/10/2021 10:26 AM	05:00	4.34 pH	20.57 °C	709.39 µS/cm	0.96 mg/L	1.11 NTU	176.4 mV	13.78 ft	125.00 ml/min
9/10/2021 10:31 AM	10:00	4.33 pH	20.51 °C	687.71 µS/cm	0.71 mg/L	0.66 NTU	221.3 mV	13.75 ft	125.00 ml/min
9/10/2021 10:36 AM	15:00	4.30 pH	20.30 °C	693.96 µS/cm	0.68 mg/L	0.61 NTU	207.4 mV	13.75 ft	125.00 ml/min
9/10/2021 10:41 AM	20:00	4.29 pH	20.26 °C	690.17 µS/cm	0.66 mg/L	0.31 NTU	291.5 mV	13.78 ft	125.00 ml/min
9/10/2021 10:46 AM	25:00	4.30 pH	20.30 °C	691.70 µS/cm	0.52 mg/L	0.21 NTU	212.2 mV	13.78 ft	125.00 ml/min
9/10/2021 10:51 AM	30:00	4.31 pH	20.31 °C	688.77 µS/cm	0.49 mg/L	0.32 NTU	208.7 mV	13.78 ft	125.00 ml/min
9/10/2021 10:56 AM	35:00	4.30 pH	20.34 °C	690.22 µS/cm	0.43 mg/L	0.54 NTU	203.1 mV	13.78 ft	125.00 ml/min

## Samples

Sample ID:	Description:
DWGC-48	Dup-1



# Low-Flow Test Report:

Test Date / Time: 9/13/2021 12:01:17 PM

Project: Plant McDonough (10)

Operator Name: D Fulton

<b>Location Name: B-56</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.9 ft</b> <b>Total Depth: 47.9 ft</b> <b>Initial Depth to Water: 26.55 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 42 ft</b> <b>Estimated Total Volume Pumped: 5.6 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 80 ml/min</b> <b>Final Draw Down: 0.42 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850767</b>
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## Test Notes:

## Weather Conditions:

Clear, 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	
9/13/2021 12:01 PM	00:00	4.78 pH	26.42 °C	437.86 µS/cm	1.52 mg/L	70.50 NTU	157.0 mV	26.96 ft	80.00 ml/min
9/13/2021 12:06 PM	05:00	4.72 pH	22.00 °C	467.65 µS/cm	0.50 mg/L	33.80 NTU	86.6 mV	26.98 ft	80.00 ml/min
9/13/2021 12:11 PM	10:00	4.71 pH	21.91 °C	468.02 µS/cm	0.38 mg/L	25.10 NTU	92.9 mV	26.98 ft	80.00 ml/min
9/13/2021 12:16 PM	15:00	4.70 pH	21.84 °C	468.46 µS/cm	0.43 mg/L	32.60 NTU	84.9 mV	26.98 ft	80.00 ml/min
9/13/2021 12:21 PM	20:00	4.65 pH	21.85 °C	464.88 µS/cm	0.32 mg/L	26.00 NTU	82.0 mV	26.98 ft	80.00 ml/min
9/13/2021 12:26 PM	25:00	4.71 pH	21.66 °C	463.29 µS/cm	0.27 mg/L	23.50 NTU	60.9 mV	26.98 ft	80.00 ml/min
9/13/2021 12:31 PM	30:00	4.70 pH	21.60 °C	464.95 µS/cm	0.29 mg/L	15.20 NTU	78.2 mV	26.98 ft	80.00 ml/min
9/13/2021 12:36 PM	35:00	4.71 pH	21.59 °C	462.01 µS/cm	0.28 mg/L	12.30 NTU	60.1 mV	26.98 ft	80.00 ml/min
9/13/2021 12:41 PM	40:00	4.69 pH	21.67 °C	468.72 µS/cm	0.27 mg/L	10.70 NTU	59.5 mV	26.98 ft	80.00 ml/min
9/13/2021 12:46 PM	45:00	4.70 pH	21.91 °C	471.79 µS/cm	0.25 mg/L	11.40 NTU	78.4 mV	26.95 ft	80.00 ml/min
9/13/2021 12:51 PM	50:00	4.70 pH	21.69 °C	473.16 µS/cm	0.26 mg/L	11.50 NTU	61.1 mV	26.94 ft	80.00 ml/min
9/13/2021 12:56 PM	55:00	4.68 pH	21.83 °C	473.60 µS/cm	0.26 mg/L	11.00 NTU	83.8 mV	26.94 ft	80.00 ml/min
9/13/2021 1:01 PM	01:00:00	4.70 pH	21.91 °C	474.02 µS/cm	0.26 mg/L	9.40 NTU	63.7 mV	26.94 ft	80.00 ml/min

9/13/2021 1:06 PM	01:05:00	4.70 pH	21.66 °C	474.17 µS/cm	0.24 mg/L	5.43 NTU	62.7 mV	26.97 ft	80.00 ml/min
9/13/2021 1:11 PM	01:10:00	4.69 pH	21.75 °C	474.76 µS/cm	0.23 mg/L	3.44 NTU	85.7 mV	26.97 ft	80.00 ml/min

## Samples

Sample ID:	Description:
B-56	

# Low-Flow Test Report:

Test Date / Time: 9/9/2021 2:26:06 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-62</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 29.62 ft</b> <b>Total Depth: 39.62 ft</b> <b>Initial Depth to Water: 11.95 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 34 ft</b> <b>Estimated Total Volume Pumped: 20000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 0.45 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/9/2021 2:26 PM	00:00	6.40 pH	29.86 °C	261.98 µS/cm	4.59 mg/L	40.10 NTU	47.2 mV	11.95 ft	250.00 ml/min
9/9/2021 2:31 PM	05:00	6.35 pH	20.27 °C	296.54 µS/cm	0.41 mg/L	38.80 NTU	13.7 mV	12.38 ft	250.00 ml/min
9/9/2021 2:36 PM	10:00	6.37 pH	19.77 °C	286.67 µS/cm	0.31 mg/L	35.50 NTU	3.9 mV	12.40 ft	250.00 ml/min
9/9/2021 2:41 PM	15:00	6.27 pH	19.63 °C	278.05 µS/cm	0.26 mg/L	38.00 NTU	3.9 mV	12.40 ft	250.00 ml/min
9/9/2021 2:46 PM	20:00	6.32 pH	19.59 °C	270.42 µS/cm	0.19 mg/L	13.00 NTU	1.5 mV	12.40 ft	250.00 ml/min
9/9/2021 2:51 PM	25:00	6.33 pH	19.59 °C	274.22 µS/cm	0.24 mg/L	17.00 NTU	11.6 mV	12.40 ft	250.00 ml/min
9/9/2021 2:56 PM	30:00	6.32 pH	19.55 °C	268.88 µS/cm	0.21 mg/L	12.20 NTU	4.3 mV	12.40 ft	250.00 ml/min
9/9/2021 3:01 PM	35:00	6.29 pH	19.53 °C	268.39 µS/cm	0.20 mg/L	15.20 NTU	6.0 mV	12.40 ft	250.00 ml/min
9/9/2021 3:06 PM	40:00	6.30 pH	19.72 °C	268.63 µS/cm	0.20 mg/L	15.10 NTU	13.7 mV	12.40 ft	250.00 ml/min
9/9/2021 3:11 PM	45:00	6.25 pH	20.08 °C	269.64 µS/cm	0.22 mg/L	13.20 NTU	8.7 mV	12.40 ft	250.00 ml/min
9/9/2021 3:16 PM	50:00	6.27 pH	20.70 °C	271.92 µS/cm	0.30 mg/L	19.10 NTU	11.8 mV	12.40 ft	250.00 ml/min
9/9/2021 3:21 PM	55:00	6.23 pH	20.95 °C	269.42 µS/cm	0.32 mg/L	20.50 NTU	18.7 mV	12.40 ft	250.00 ml/min
9/9/2021 3:26 PM	01:00:00	6.29 pH	19.95 °C	269.54 µS/cm	0.31 mg/L	19.50 NTU	17.3 mV	12.40 ft	250.00 ml/min
9/9/2021 3:31 PM	01:05:00	6.26 pH	19.81 °C	269.39 µS/cm	0.24 mg/L	12.70 NTU	16.6 mV	12.40 ft	250.00 ml/min
9/9/2021 3:36 PM	01:10:00	6.29 pH	19.86 °C	269.42 µS/cm	0.21 mg/L	9.60 NTU	15.2 mV	12.40 ft	250.00 ml/min



9/9/2021 3:41 PM	01:15:00	6.29 pH	19.79 °C	268.73 $\mu$ S/cm	0.18 mg/L	6.66 NTU	14.7 mV	12.40 ft	250.00 ml/min
9/9/2021 3:46 PM	01:20:00	6.31 pH	19.81 °C	268.58 $\mu$ S/cm	0.18 mg/L	3.00 NTU	14.5 mV	12.40 ft	250.00 ml/min

## Samples

Sample ID:	Description:
B-62	

# Low-Flow Test Report:

Test Date / Time: 9/14/2021 12:10:22 PM

Project: Plant McDonough (17)

Operator Name: Erik Rheams

<b>Location Name: B-63</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 36.15 ft</b> <b>Total Depth: 46.15 ft</b> <b>Initial Depth to Water: 28.73 ft</b>	<b>Pump Type: bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 41 ft</b> <b>Estimated Total Volume Pumped: 6300 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 180 ml/min</b> <b>Final Draw Down: 0.61 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850751</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/14/2021 12:10 PM	00:00	5.55 pH	31.17 °C	245.93 µS/cm	1.65 mg/L	37.20 NTU	63.6 mV	28.73 ft	180.00 ml/min
9/14/2021 12:15 PM	05:00	5.44 pH	23.18 °C	262.47 µS/cm	0.40 mg/L	20.70 NTU	74.6 mV	29.11 ft	180.00 ml/min
9/14/2021 12:20 PM	10:00	5.43 pH	22.18 °C	263.18 µS/cm	0.29 mg/L	14.80 NTU	78.4 mV	29.24 ft	180.00 ml/min
9/14/2021 12:25 PM	15:00	5.43 pH	21.87 °C	265.23 µS/cm	0.26 mg/L	10.65 NTU	79.1 mV	29.31 ft	180.00 ml/min
9/14/2021 12:30 PM	20:00	5.43 pH	21.87 °C	263.66 µS/cm	0.23 mg/L	8.31 NTU	75.9 mV	29.33 ft	180.00 ml/min
9/14/2021 12:35 PM	25:00	5.42 pH	21.64 °C	263.31 µS/cm	0.20 mg/L	7.01 NTU	77.2 mV	29.34 ft	180.00 ml/min
9/14/2021 12:40 PM	30:00	5.45 pH	21.66 °C	262.17 µS/cm	0.19 mg/L	5.57 NTU	75.3 mV	29.34 ft	180.00 ml/min
9/14/2021 12:45 PM	35:00	5.46 pH	22.09 °C	262.66 µS/cm	0.17 mg/L	4.95 NTU	76.2 mV	29.34 ft	180.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 9/14/2021 10:02:34 AM

Project: Plant McDonough (13)

Operator Name: D Fulton

<b>Location Name: B-66</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 47.99 ft</b> <b>Total Depth: 57.99 ft</b> <b>Initial Depth to Water: 16.77 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 52 ft</b> <b>Estimated Total Volume Pumped: 5.5 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 3.33 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850767</b>
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## Test Notes:

## Weather Conditions:

Clear,78

## 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	
9/14/2021 10:02 AM	00:00	6.25 pH	23.88 °C	854.92 µS/cm	4.90 mg/L	5.54 NTU	34.7 mV	16.88 ft	50.00 ml/min
9/14/2021 10:07 AM	05:00	6.42 pH	22.73 °C	774.75 µS/cm	1.43 mg/L	6.80 NTU	9.6 mV	17.24 ft	50.00 ml/min
9/14/2021 10:12 AM	10:00	6.44 pH	23.19 °C	775.69 µS/cm	0.93 mg/L	6.53 NTU	8.8 mV	17.41 ft	50.00 ml/min
9/14/2021 10:17 AM	15:00	6.45 pH	23.42 °C	765.57 µS/cm	0.62 mg/L	10.67 NTU	17.4 mV	17.75 ft	100.00 ml/min
9/14/2021 10:22 AM	20:00	6.44 pH	21.62 °C	764.84 µS/cm	0.23 mg/L	10.77 NTU	6.8 mV	18.30 ft	100.00 ml/min
9/14/2021 10:27 AM	25:00	6.45 pH	21.24 °C	771.94 µS/cm	0.21 mg/L	12.42 NTU	16.1 mV	18.79 ft	100.00 ml/min
9/14/2021 10:32 AM	30:00	6.48 pH	21.15 °C	766.49 µS/cm	0.27 mg/L	6.37 NTU	17.1 mV	19.12 ft	100.00 ml/min
9/14/2021 10:37 AM	35:00	6.52 pH	21.10 °C	767.14 µS/cm	0.35 mg/L	4.08 NTU	18.3 mV	19.45 ft	100.00 ml/min
9/14/2021 10:42 AM	40:00	6.52 pH	21.42 °C	768.61 µS/cm	0.32 mg/L	4.08 NTU	17.2 mV	19.70 ft	100.00 ml/min
9/14/2021 10:47 AM	45:00	6.52 pH	21.69 °C	757.53 µS/cm	0.31 mg/L	3.44 NTU	6.9 mV	19.87 ft	100.00 ml/min
9/14/2021 10:52 AM	50:00	6.53 pH	21.85 °C	764.39 µS/cm	0.33 mg/L	4.09 NTU	5.4 mV	20.03 ft	100.00 ml/min
9/14/2021 10:57 AM	55:00	6.52 pH	22.12 °C	774.49 µS/cm	0.33 mg/L	1.85 NTU	15.0 mV	20.09 ft	100.00 ml/min
9/14/2021 11:02 AM	01:00:00	6.54 pH	22.27 °C	759.32 µS/cm	0.47 mg/L	2.10 NTU	14.5 mV	20.10 ft	100.00 ml/min

**Samples**

Sample ID:	Description:
B-66	Dup-4

# Low-Flow Test Report:

Test Date / Time: 9/14/2021 10:20:59 AM

Project: Plant McDonough (16)

Operator Name: Erik Rheams

<b>Location Name: B-77</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 33.4 ft</b> <b>Total Depth: 43.4 ft</b> <b>Initial Depth to Water: 29.31 ft</b>	<b>Pump Type: Dedicated bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 38 ft</b> <b>Estimated Total Volume Pumped: 5000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.81 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850751</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/14/2021 10:20 AM	00:00	6.44 pH	23.66 °C	377.79 µS/cm	1.57 mg/L	5.72 NTU	-60.4 mV	29.31 ft	200.00 ml/min
9/14/2021 10:25 AM	05:00	6.48 pH	21.56 °C	384.35 µS/cm	0.32 mg/L	6.57 NTU	-70.6 mV	30.09 ft	200.00 ml/min
9/14/2021 10:30 AM	10:00	6.47 pH	21.82 °C	378.26 µS/cm	0.28 mg/L	4.02 NTU	-75.4 mV	30.18 ft	200.00 ml/min
9/14/2021 10:35 AM	15:00	6.44 pH	22.54 °C	361.86 µS/cm	0.31 mg/L	2.57 NTU	-73.6 mV	30.12 ft	200.00 ml/min
9/14/2021 10:40 AM	20:00	6.42 pH	22.76 °C	353.67 µS/cm	0.30 mg/L	2.85 NTU	-69.2 mV	30.12 ft	200.00 ml/min
9/14/2021 10:45 AM	25:00	6.42 pH	22.81 °C	350.45 µS/cm	0.28 mg/L	2.54 NTU	-72.4 mV	30.12 ft	200.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 9/14/2021 12:25:37 PM

Project: Plant McDonough (14)

Operator Name: D Fulton

<b>Location Name: B-82</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.65 ft</b> <b>Total Depth: 47.65 ft</b> <b>Initial Depth to Water: 14.94 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 42 ft</b> <b>Estimated Total Volume Pumped: 3.0 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 0.86 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850767</b>
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## 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	
9/14/2021 12:25 PM	00:00	5.38 pH	29.63 °C	757.45 µS/cm	5.91 mg/L	1.38 NTU	107.3 mV	15.21 ft	100.00 ml/min
9/14/2021 12:30 PM	05:00	5.17 pH	22.45 °C	784.10 µS/cm	0.59 mg/L	0.91 NTU	153.6 mV	15.60 ft	110.00 ml/min
9/14/2021 12:35 PM	10:00	5.16 pH	21.93 °C	777.08 µS/cm	0.47 mg/L	1.26 NTU	143.5 mV	15.74 ft	100.00 ml/min
9/14/2021 12:40 PM	15:00	5.16 pH	21.77 °C	778.92 µS/cm	0.44 mg/L	2.09 NTU	137.8 mV	15.80 ft	100.00 ml/min
9/14/2021 12:45 PM	20:00	5.16 pH	21.69 °C	779.91 µS/cm	0.42 mg/L	1.02 NTU	131.8 mV	15.80 ft	100.00 ml/min
9/14/2021 12:50 PM	25:00	5.15 pH	21.68 °C	777.66 µS/cm	0.40 mg/L	1.52 NTU	127.5 mV	15.80 ft	100.00 ml/min
9/14/2021 12:55 PM	30:00	5.15 pH	21.70 °C	772.42 µS/cm	0.40 mg/L	3.92 NTU	172.5 mV	15.80 ft	100.00 ml/min

## Samples

Sample ID:	Description:
B-82	

# Low-Flow Test Report:

**Test Date / Time:** 9/16/2021 10:07:36 AM

**Project:** Plant McDonough

**Operator Name:** Erin D Hondt

<b>Location Name: B-83</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 38.9 ft</b> <b>Total Depth: 48.9 ft</b> <b>Initial Depth to Water: 29.24 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 43.9 ft</b> <b>Estimated Total Volume Pumped: 20400 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 240 ml/min</b> <b>Final Draw Down: 0.09 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728638</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
9/16/2021 10:07 AM	00:00	5.62 pH	21.04 °C	391.42 µS/cm	0.54 mg/L	999.00 NTU	99.1 mV	29.04 ft	240.00 ml/min
9/16/2021 10:12 AM	05:00	5.62 pH	21.06 °C	380.63 µS/cm	0.38 mg/L	999.00 NTU	134.5 mV	29.15 ft	240.00 ml/min
9/16/2021 10:17 AM	10:00	5.61 pH	21.06 °C	372.81 µS/cm	0.29 mg/L	999.00 NTU	75.6 mV	29.15 ft	240.00 ml/min
9/16/2021 10:22 AM	15:00	5.60 pH	21.05 °C	366.91 µS/cm	0.24 mg/L	999.00 NTU	131.4 mV	29.15 ft	240.00 ml/min
9/16/2021 10:27 AM	20:00	5.60 pH	21.05 °C	363.81 µS/cm	0.20 mg/L	999.00 NTU	98.6 mV	29.15 ft	240.00 ml/min
9/16/2021 10:32 AM	25:00	5.60 pH	21.02 °C	360.99 µS/cm	0.18 mg/L	999.00 NTU	131.7 mV	29.15 ft	240.00 ml/min
9/16/2021 10:37 AM	30:00	5.59 pH	21.06 °C	362.69 µS/cm	0.18 mg/L	999.00 NTU	98.3 mV	29.15 ft	240.00 ml/min
9/16/2021 10:42 AM	35:00	5.58 pH	21.06 °C	362.58 µS/cm	0.18 mg/L	71.40 NTU	96.5 mV	29.15 ft	240.00 ml/min
9/16/2021 10:47 AM	40:00	5.58 pH	21.01 °C	359.88 µS/cm	0.17 mg/L	55.20 NTU	130.5 mV	29.15 ft	240.00 ml/min
9/16/2021 10:52 AM	45:00	5.58 pH	21.01 °C	362.03 µS/cm	0.17 mg/L	27.80 NTU	97.7 mV	29.15 ft	240.00 ml/min
9/16/2021 10:57 AM	50:00	5.57 pH	20.83 °C	366.16 µS/cm	0.19 mg/L	25.20 NTU	97.0 mV	29.15 ft	240.00 ml/min
9/16/2021 11:02 AM	55:00	5.58 pH	20.83 °C	359.49 µS/cm	0.17 mg/L	18.50 NTU	131.9 mV	29.15 ft	240.00 ml/min
9/16/2021 11:07 AM	01:00:00	5.58 pH	20.83 °C	360.42 µS/cm	0.16 mg/L	16.20 NTU	135.9 mV	29.15 ft	240.00 ml/min
9/16/2021 11:12 AM	01:05:00	5.59 pH	20.87 °C	363.85 µS/cm	0.18 mg/L	12.90 NTU	100.5 mV	29.15 ft	240.00 ml/min
9/16/2021 11:17 AM	01:10:00	5.57 pH	20.90 °C	360.27 µS/cm	0.16 mg/L	8.60 NTU	134.6 mV	29.15 ft	240.00 ml/min
9/16/2021 11:22 AM	01:15:00	5.58 pH	20.86 °C	361.01 µS/cm	0.17 mg/L	7.20 NTU	138.7 mV	29.15 ft	240.00 ml/min
9/16/2021 11:27 AM	01:20:00	5.58 pH	20.88 °C	360.59 µS/cm	0.16 mg/L	4.30 NTU	102.8 mV	29.15 ft	240.00 ml/min

9/16/2021 11:32 AM	01:25:00	6.12 pH	21.00 °C	0.70 µS/cm	0.20 mg/L	1.10 NTU	50.1 mV	20.15 ft	210.00 ml/min
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## Samples

Sample ID:	Description:
B-83	FB-6

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# Low-Flow Test Report:

Test Date / Time: 9/13/2021 2:16:14 PM

Project: Plant McDonough (14)

Operator Name: Erik Rheams

<b>Location Name: B-88</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 65.06 ft</b> <b>Total Depth: 75.06 m</b> <b>Initial Depth to Water: 36.75 ft</b>	<b>Pump Type: Dedicated bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 70 ft</b> <b>Estimated Total Volume Pumped: 4400 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 220 ml/min</b> <b>Final Draw Down: 0.1 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850751</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/13/2021 2:16 PM	00:00	6.36 pH	29.29 °C	623.80 µS/cm	4.94 mg/L	4.96 NTU	57.9 mV	36.75 ft	220.00 ml/min
9/13/2021 2:21 PM	05:00	5.69 pH	20.35 °C	733.17 µS/cm	0.93 mg/L	2.32 NTU	58.8 mV	36.88 ft	220.00 ml/min
9/13/2021 2:26 PM	10:00	5.68 pH	19.86 °C	740.29 µS/cm	0.42 mg/L	1.40 NTU	57.2 mV	36.85 ft	220.00 ml/min
9/13/2021 2:31 PM	15:00	5.68 pH	19.77 °C	733.77 µS/cm	0.31 mg/L	1.82 NTU	56.8 mV	36.85 ft	220.00 ml/min
9/13/2021 2:36 PM	20:00	5.68 pH	19.72 °C	735.87 µS/cm	0.25 mg/L	2.20 NTU	55.6 mV	36.85 ft	220.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 9/15/2021 11:18:38 AM

Project: Plant McDonough (16)

Operator Name: D Fulton

<b>Location Name: B-92</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 19.3 ft</b> <b>Total Depth: 29.3 ft</b> <b>Initial Depth to Water: 5.82 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 24 ft</b> <b>Estimated Total Volume Pumped: 3.75 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 225 ml/min</b> <b>Final Draw Down: 0.13 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850767</b>
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## Test Notes:

## Weather Conditions:

Cloudy, Rain, 80 s

## 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	
9/15/2021 11:18 AM	00:00	4.59 pH	24.33 °C	920.60 µS/cm	2.46 mg/L	59.20 NTU	308.5 mV	5.90 ft	150.00 ml/min
9/15/2021 11:23 AM	05:00	4.56 pH	20.84 °C	924.45 µS/cm	0.32 mg/L	3.05 NTU	453.1 mV	5.93 ft	150.00 ml/min
9/15/2021 11:28 AM	10:00	4.55 pH	20.25 °C	924.18 µS/cm	0.15 mg/L	1.46 NTU	566.4 mV	5.95 ft	225.00 ml/min
9/15/2021 11:33 AM	15:00	4.56 pH	20.13 °C	930.37 µS/cm	0.12 mg/L	2.49 NTU	471.1 mV	5.95 ft	225.00 ml/min
9/15/2021 11:38 AM	20:00	4.55 pH	20.08 °C	925.76 µS/cm	0.12 mg/L	1.78 NTU	567.8 mV	5.95 ft	225.00 ml/min

## Samples

Sample ID:	Description:
B-92	

# Low-Flow Test Report:

Test Date / Time: 9/15/2021 11:16:50 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-93</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 19.3 ft</b> <b>Total Depth: 29.3 ft</b> <b>Initial Depth to Water: 8.6 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 24 ft</b> <b>Estimated Total Volume Pumped: 3750 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 0.81 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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## Test Notes:

DUP-5

## 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	
9/15/2021 11:16 AM	00:00	4.60 pH	22.39 °C	998.33 µS/cm	0.56 mg/L	3.46 NTU	360.0 mV	8.60 ft	250.00 ml/min
9/15/2021 11:21 AM	05:00	4.58 pH	20.70 °C	1,029.8 µS/cm	0.38 mg/L	2.38 NTU	474.8 mV	9.35 ft	250.00 ml/min
9/15/2021 11:26 AM	10:00	4.59 pH	20.66 °C	1,041.3 µS/cm	0.34 mg/L	1.70 NTU	563.0 mV	9.40 ft	250.00 ml/min
9/15/2021 11:31 AM	15:00	4.60 pH	20.70 °C	1,029.5 µS/cm	0.32 mg/L	2.67 NTU	521.0 mV	9.41 ft	250.00 ml/min

## Samples

Sample ID:	Description:
B-93	DUP-5

# Low-Flow Test Report:

Test Date / Time: 9/15/2021 12:35:28 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-97</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 20.71 ft</b> <b>Total Depth: 30.71 ft</b> <b>Initial Depth to Water: 6.35 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 25 ft</b> <b>Estimated Total Volume Pumped: 3750 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 0.1 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/15/2021 12:35 PM	00:00	5.50 pH	23.93 °C	1,196.2 µS/cm	0.48 mg/L	0.84 NTU	345.8 mV	6.35 ft	250.00 ml/min
9/15/2021 12:40 PM	05:00	5.49 pH	21.43 °C	1,265.3 µS/cm	0.17 mg/L	0.62 NTU	376.8 mV	6.45 ft	250.00 ml/min
9/15/2021 12:45 PM	10:00	5.49 pH	21.23 °C	1,260.6 µS/cm	0.13 mg/L	0.75 NTU	366.4 mV	6.45 ft	250.00 ml/min
9/15/2021 12:50 PM	15:00	5.49 pH	20.98 °C	1,261.6 µS/cm	0.11 mg/L	0.98 NTU	530.9 mV	6.45 ft	250.00 ml/min

## Samples

Sample ID:	Description:
B-97	FB-5

# Low-Flow Test Report:

Test Date / Time: 9/15/2021 12:36:06 PM

Project: Plant McDonough (17)

Operator Name: D Fulton

<b>Location Name: B-98</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 9.1 ft</b> <b>Total Depth: 19.1 ft</b> <b>Initial Depth to Water: 9.46 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 14 ft</b> <b>Estimated Total Volume Pumped: 7 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.18 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850767</b>
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## Test Notes:

## Weather Conditions:

Cloudy, 80 s

## 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	
9/15/2021 12:36 PM	00:00	5.91 pH	26.97 °C	860.81 µS/cm	4.04 mg/L	10.62 NTU	225.8 mV	9.53 ft	200.00 ml/min
9/15/2021 12:41 PM	05:00	5.87 pH	21.46 °C	853.93 µS/cm	0.22 mg/L	15.40 NTU	191.4 mV	9.58 ft	200.00 ml/min
9/15/2021 12:46 PM	10:00	5.71 pH	21.02 °C	814.91 µS/cm	0.14 mg/L	11.70 NTU	130.2 mV	9.60 ft	200.00 ml/min
9/15/2021 12:51 PM	15:00	5.61 pH	20.92 °C	822.19 µS/cm	0.12 mg/L	10.23 NTU	118.6 mV	9.60 ft	200.00 ml/min
9/15/2021 12:56 PM	20:00	5.52 pH	20.83 °C	833.96 µS/cm	0.10 mg/L	6.31 NTU	110.8 mV	9.60 ft	200.00 ml/min
9/15/2021 1:01 PM	25:00	5.45 pH	20.70 °C	839.62 µS/cm	0.09 mg/L	6.09 NTU	145.4 mV	9.62 ft	200.00 ml/min
9/15/2021 1:06 PM	30:00	5.41 pH	20.74 °C	849.90 µS/cm	0.09 mg/L	4.63 NTU	103.0 mV	9.63 ft	200.00 ml/min
9/15/2021 1:11 PM	35:00	5.40 pH	20.71 °C	851.03 µS/cm	0.08 mg/L	4.89 NTU	96.6 mV	9.64 ft	200.00 ml/min

## Samples

Sample ID:	Description:
B-98	EB-5



# Low-Flow Test Report:

Test Date / Time: 9/13/2021 3:54:15 PM

Project: Plant McDonough (15)

Operator Name: Erik Rheams

<b>Location Name: B-100</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.93 ft</b> <b>Total Depth: 47.93 ft</b> <b>Initial Depth to Water: 34.88 ft</b>	<b>Pump Type: Dedicated bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 42 ft</b> <b>Estimated Total Volume Pumped: 9600 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 160 ml/min Final Draw Down: 0.12 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850751</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/13/2021 3:54 PM	00:00	5.15 pH	33.05 °C	729.00 µS/cm	2.59 mg/L	78.30 NTU	42.4 mV	34.88 ft	160.00 ml/min
9/13/2021 3:59 PM	05:00	5.18 pH	25.97 °C	785.56 µS/cm	0.61 mg/L	48.00 NTU	34.9 mV	34.99 ft	160.00 ml/min
9/13/2021 4:04 PM	10:00	5.20 pH	25.35 °C	781.72 µS/cm	0.45 mg/L	25.10 NTU	32.8 mV	35.03 ft	160.00 ml/min
9/13/2021 4:09 PM	15:00	5.22 pH	24.97 °C	776.70 µS/cm	0.38 mg/L	20.00 NTU	32.0 mV	35.00 ft	160.00 ml/min
9/13/2021 4:14 PM	20:00	5.23 pH	24.43 °C	777.53 µS/cm	0.33 mg/L	17.40 NTU	31.1 mV	35.00 ft	160.00 ml/min
9/13/2021 4:19 PM	25:00	5.23 pH	24.49 °C	773.98 µS/cm	0.30 mg/L	17.00 NTU	30.3 mV	35.00 ft	160.00 ml/min
9/13/2021 4:24 PM	30:00	5.23 pH	24.79 °C	771.20 µS/cm	0.27 mg/L	11.90 NTU	29.6 mV	35.00 ft	160.00 ml/min
9/13/2021 4:29 PM	35:00	5.23 pH	25.08 °C	764.96 µS/cm	0.26 mg/L	12.50 NTU	28.9 mV	35.00 ft	160.00 ml/min
9/13/2021 4:34 PM	40:00	5.23 pH	25.82 °C	762.55 µS/cm	0.28 mg/L	11.70 NTU	27.9 mV	35.00 ft	160.00 ml/min
9/13/2021 4:39 PM	45:00	5.22 pH	26.07 °C	751.76 µS/cm	0.28 mg/L	14.20 NTU	27.6 mV	35.00 ft	160.00 ml/min
9/13/2021 4:44 PM	50:00	5.25 pH	23.30 °C	752.36 µS/cm	0.22 mg/L	10.59 NTU	29.5 mV	35.00 ft	160.00 ml/min
9/13/2021 4:49 PM	55:00	5.26 pH	22.98 °C	756.66 µS/cm	0.16 mg/L	5.34 NTU	29.6 mV	35.00 ft	160.00 ml/min
9/13/2021 4:54 PM	01:00:00	5.27 pH	23.12 °C	750.79 µS/cm	0.13 mg/L	4.33 NTU	29.3 mV	35.00 ft	160.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 9/13/2021 2:57:17 PM

Project: Plant McDonough (12)

Operator Name: D Fulton

<b>Location Name: B-101D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 64.9 ft</b> <b>Total Depth: 74.9 ft</b> <b>Initial Depth to Water: 28.18 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 69 ft</b> <b>Estimated Total Volume Pumped: 3.03 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 55 ml/min</b> <b>Final Draw Down: 2.64 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850767</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/13/2021 2:57 PM	00:00	6.24 pH	30.46 °C	524.83 µS/cm	3.62 mg/L	53.00 NTU	69.6 mV	29.65 ft	50.00 ml/min
9/13/2021 3:02 PM	05:00	6.15 pH	26.97 °C	513.73 µS/cm	2.07 mg/L	48.00 NTU	14.1 mV	29.90 ft	50.00 ml/min
9/13/2021 3:07 PM	10:00	6.11 pH	27.00 °C	517.88 µS/cm	1.42 mg/L	19.05 NTU	38.0 mV	30.08 ft	50.00 ml/min
9/13/2021 3:12 PM	15:00	6.10 pH	27.48 °C	515.76 µS/cm	1.27 mg/L	12.30 NTU	49.9 mV	30.25 ft	60.00 ml/min
9/13/2021 3:17 PM	20:00	6.09 pH	27.71 °C	517.29 µS/cm	1.05 mg/L	8.44 NTU	58.1 mV	30.38 ft	60.00 ml/min
9/13/2021 3:22 PM	25:00	6.09 pH	27.29 °C	513.83 µS/cm	0.90 mg/L	7.33 NTU	50.1 mV	30.48 ft	60.00 ml/min
9/13/2021 3:27 PM	30:00	6.08 pH	27.16 °C	514.46 µS/cm	1.24 mg/L	4.50 NTU	64.5 mV	30.58 ft	60.00 ml/min
9/13/2021 3:32 PM	35:00	6.08 pH	27.02 °C	513.62 µS/cm	1.15 mg/L	4.06 NTU	65.9 mV	30.65 ft	60.00 ml/min
9/13/2021 3:37 PM	40:00	6.08 pH	27.12 °C	514.07 µS/cm	1.11 mg/L	3.36 NTU	65.0 mV	30.70 ft	60.00 ml/min
9/13/2021 3:42 PM	45:00	6.07 pH	27.44 °C	513.26 µS/cm	1.04 mg/L	2.87 NTU	63.4 mV	30.75 ft	55.00 ml/min
9/13/2021 3:47 PM	50:00	6.07 pH	27.99 °C	513.97 µS/cm	0.97 mg/L	2.74 NTU	49.1 mV	30.78 ft	55.00 ml/min
9/13/2021 3:52 PM	55:00	6.07 pH	26.60 °C	509.33 µS/cm	0.93 mg/L	2.36 NTU	44.7 mV	30.82 ft	55.00 ml/min

## Samples

Sample ID:	Description:
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B-101D	FB-3
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Created using VuSitu from In-Situ, Inc.

# Low-Flow Test Report:

Test Date / Time: 9/10/2021 2:07:37 PM

Project: Plant McDonough

Operator Name: K. Minkara

<b>Location Name: B-102D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 74.4 ft</b> <b>Total Depth: 84.4 ft</b> <b>Initial Depth to Water: 29.18 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 79 ft</b> <b>Estimated Total Volume Pumped: 3800 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 180 ml/min</b> <b>Final Draw Down: 1.02 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/10/2021 2:07 PM	00:00	6.50 pH	30.91 °C	526.61 µS/cm	2.10 mg/L	1.11 NTU	-79.1 mV	29.18 ft	200.00 ml/min
9/10/2021 2:12 PM	05:00	5.47 pH	22.82 °C	632.25 µS/cm	0.49 mg/L	0.89 NTU	-5.9 mV	30.02 ft	200.00 ml/min
9/10/2021 2:17 PM	10:00	5.39 pH	22.31 °C	640.53 µS/cm	0.35 mg/L	1.64 NTU	19.4 mV	30.12 ft	180.00 ml/min
9/10/2021 2:22 PM	15:00	5.38 pH	22.17 °C	643.13 µS/cm	0.28 mg/L	0.95 NTU	49.1 mV	30.19 ft	180.00 ml/min
9/10/2021 2:27 PM	20:00	5.36 pH	22.05 °C	643.64 µS/cm	0.24 mg/L	0.88 NTU	55.7 mV	30.20 ft	180.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 9/14/2021 4:10:27 PM

Project: Plant McDonough (19)

Operator Name: Erik Rheams

<b>Location Name: B-104D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 50 ft</b> <b>Total Depth: 60 ft</b> <b>Initial Depth to Water: 5.78 ft</b>	<b>Pump Type: Dedicated bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 55 ft</b> <b>Estimated Total Volume Pumped: 3500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 2.83 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850751</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/14/2021 4:10 PM	00:00	6.51 pH	28.28 °C	983.32 µS/cm	1.37 mg/L	3.55 NTU	-0.7 mV	5.78 ft	100.00 ml/min
9/14/2021 4:15 PM	05:00	6.46 pH	25.97 °C	1,036.4 µS/cm	0.62 mg/L	2.46 NTU	-27.1 mV	5.95 ft	100.00 ml/min
9/14/2021 4:20 PM	10:00	6.49 pH	25.28 °C	1,035.4 µS/cm	0.48 mg/L	2.16 NTU	-50.9 mV	6.60 ft	100.00 ml/min
9/14/2021 4:25 PM	15:00	6.53 pH	24.88 °C	1,035.5 µS/cm	0.41 mg/L	2.20 NTU	-72.9 mV	7.29 ft	100.00 ml/min
9/14/2021 4:30 PM	20:00	6.56 pH	24.90 °C	1,039.1 µS/cm	0.36 mg/L	2.42 NTU	-82.8 mV	7.89 ft	100.00 ml/min
9/14/2021 4:35 PM	25:00	6.58 pH	25.08 °C	1,036.3 µS/cm	0.33 mg/L	2.50 NTU	-98.4 mV	8.31 ft	100.00 ml/min
9/14/2021 4:40 PM	30:00	6.58 pH	26.15 °C	1,052.6 µS/cm	0.36 mg/L	2.58 NTU	-99.2 mV	8.49 ft	100.00 ml/min
9/14/2021 4:45 PM	35:00	6.58 pH	27.06 °C	1,037.6 µS/cm	0.40 mg/L	2.17 NTU	-105.5 mV	8.61 ft	100.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

**Test Date / Time:** 9/13/2021 11:54:54 AM

**Project:** Plant McDonough (13)

**Operator Name:** Erik Rheams

<b>Location Name: B-106D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 69.4 ft</b> <b>Total Depth: 79.4 ft</b> <b>Initial Depth to Water: 38.05 ft</b>	<b>Pump Type: Dedicated bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 74 ft</b> <b>Estimated Total Volume Pumped: 3000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.37 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850751</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/13/2021 11:54 AM	00:00	6.51 pH	32.15 °C	338.70 µS/cm	2.24 mg/L	4.27 NTU	-10.5 mV	38.05 ft	200.00 ml/min
9/13/2021 11:59 AM	05:00	5.93 pH	21.24 °C	407.86 µS/cm	0.79 mg/L	2.04 NTU	14.1 mV	38.33 ft	200.00 ml/min
9/13/2021 12:04 PM	10:00	5.91 pH	20.87 °C	408.22 µS/cm	0.52 mg/L	1.35 NTU	20.3 mV	38.39 ft	200.00 ml/min
9/13/2021 12:09 PM	15:00	5.91 pH	20.62 °C	406.42 µS/cm	0.42 mg/L	2.39 NTU	23.3 mV	38.42 ft	200.00 ml/min

## Samples

Sample ID:	Description:
B-106D	Dup-3

# Low-Flow Test Report:

Test Date / Time: 9/13/2021 4:12:46 PM

Project: Plant McDonough (3)

Operator Name: E. Dhondt

<b>Location Name: B-107D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 75.5 ft</b> <b>Total Depth: 85.5 ft</b> <b>Initial Depth to Water: 21.95 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 80.5 ft</b> <b>Estimated Total Volume Pumped: 21718.666 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 280 ml/min</b> <b>Final Draw Down: 0.2 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/13/2021 4:12 PM	00:00	6.91 pH	21.82 °C	255.14 µS/cm	0.18 mg/L	7.90 NTU	-80.4 mV	22.15 ft	280.00 ml/min
9/13/2021 4:17 PM	05:00	6.92 pH	21.46 °C	271.17 µS/cm	0.13 mg/L	8.47 NTU	-83.2 mV	22.15 ft	280.00 ml/min
9/13/2021 4:22 PM	10:00	6.63 pH	23.84 °C	222.10 µS/cm	1.06 mg/L	12.9 NTU	-12.9 mV	22.15 ft	280.00 ml/min
9/13/2021 4:24 PM	12:05	6.52 pH	21.95 °C	227.59 µS/cm	0.54 mg/L	13.8 NTU	7.3 mV	22.15 ft	280.00 ml/min
9/13/2021 4:27 PM	15:11	6.60 pH	21.50 °C	234.18 µS/cm	0.28 mg/L	11.6 NTU	-47.3 mV	22.15 ft	280.00 ml/min
9/13/2021 4:30 PM	17:34	6.64 pH	21.50 °C	245.09 µS/cm	0.23 mg/L	11.4 NTU	-58.2 mV	22.15 ft	280.00 ml/min
9/13/2021 4:35 PM	22:34	6.80 pH	21.96 °C	289.48 µS/cm	0.14 mg/L	11.0 NTU	-70.7 mV	22.15 ft	280.00 ml/min
9/13/2021 4:40 PM	27:34	6.73 pH	21.82 °C	330.42 µS/cm	0.11 mg/L	10.83 NTU	-68.0 mV	22.15 ft	280.00 ml/min
9/13/2021 4:45 PM	32:34	6.61 pH	22.01 °C	376.14 µS/cm	0.09 mg/L	9.54 NTU	-63.5 mV	22.15 ft	280.00 ml/min
9/13/2021 4:50 PM	37:34	6.48 pH	21.29 °C	439.92 µS/cm	0.08 mg/L	9.37 NTU	-106.8 mV	22.15 ft	280.00 ml/min
9/13/2021 4:55 PM	42:34	6.35 pH	21.73 °C	507.05 µS/cm	0.08 mg/L	7.92 NTU	-58.0 mV	22.15 ft	280.00 ml/min
9/13/2021 5:00 PM	47:34	6.22 pH	21.93 °C	579.39 µS/cm	0.07 mg/L	7.21 NTU	-54.3 mV	22.15 ft	280.00 ml/min
9/13/2021 5:05 PM	52:34	6.12 pH	21.92 °C	624.59 µS/cm	0.07 mg/L	7.39 NTU	-115.2 mV	22.15 ft	280.00 ml/min
9/13/2021 5:10 PM	57:34	6.03 pH	21.81 °C	654.95 µS/cm	0.07 mg/L	5.83 NTU	-68.7 mV	22.15 ft	280.00 ml/min
9/13/2021 5:15 PM	01:02:34	5.97 pH	21.98 °C	655.43 µS/cm	0.07 mg/L	5.76 NTU	-63.9 mV	22.15 ft	280.00 ml/min
9/13/2021 5:20 PM	01:07:34	5.92 pH	21.95 °C	658.71 µS/cm	0.06 mg/L	5.25 NTU	-55.1 mV	22.15 ft	280.00 ml/min

9/13/2021 5:25 PM	01:12:34	5.90 pH	21.82 °C	649.19 µS/cm	0.06 mg/L	4.82 NTU	-47.4 mV	22.15 ft	280.00 ml/min
9/13/2021 5:30 PM	01:17:34	5.88 pH	21.69 °C	648.52 µS/cm	0.06 mg/L	4.75 NTU	-41.7 mV	22.15 ft	280.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 9/14/2021 10:16:34 AM

Project: Plant McDonough (4)

Operator Name: E. Dhondt

<b>Location Name: B-108D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 69 ft</b> <b>Total Depth: 79 ft</b> <b>Initial Depth to Water: 20.15 ft</b>	<b>Pump Type: Peristaltic Pump</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 74 ft</b> <b>Estimated Total Volume Pumped: 18200 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 280 ml/min Final Draw Down: 0.85 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/14/2021 10:16 AM	00:00	5.79 pH	21.82 °C	778.15 µS/cm	0.15 mg/L	4.99 NTU	35.1 mV	20.15 ft	280.00 ml/min
9/14/2021 10:21 AM	05:00	5.79 pH	21.82 °C	768.25 µS/cm	0.12 mg/L	3.54 NTU	29.0 mV	21.00 ft	280.00 ml/min
9/14/2021 10:26 AM	10:00	5.79 pH	21.65 °C	769.44 µS/cm	0.11 mg/L	3.11 NTU	23.2 mV	21.00 ft	280.00 ml/min
9/14/2021 10:31 AM	15:00	5.79 pH	21.46 °C	771.13 µS/cm	0.10 mg/L	4.06 NTU	25.1 mV	21.00 ft	280.00 ml/min
9/14/2021 10:36 AM	20:00	5.79 pH	21.51 °C	771.14 µS/cm	0.09 mg/L	4.02 NTU	19.8 mV	21.00 ft	280.00 ml/min
9/14/2021 10:41 AM	25:00	5.80 pH	21.19 °C	772.82 µS/cm	0.08 mg/L	3.99 NTU	18.9 mV	21.00 ft	280.00 ml/min
9/14/2021 10:46 AM	30:00	5.80 pH	21.49 °C	769.25 µS/cm	0.07 mg/L	3.87 NTU	23.7 mV	21.00 ft	280.00 ml/min
9/14/2021 10:51 AM	35:00	5.80 pH	21.66 °C	771.16 µS/cm	0.07 mg/L	3.85 NTU	18.9 mV	21.00 ft	280.00 ml/min
9/14/2021 10:56 AM	40:00	5.80 pH	21.52 °C	773.67 µS/cm	0.07 mg/L	3.78 NTU	25.1 mV	21.00 ft	280.00 ml/min
9/14/2021 11:01 AM	45:00	5.80 pH	21.64 °C	770.04 µS/cm	0.06 mg/L	3.77 NTU	24.3 mV	21.00 ft	280.00 ml/min
9/14/2021 11:06 AM	50:00	5.81 pH	21.41 °C	768.50 µS/cm	0.06 mg/L	2.32 NTU	25.9 mV	21.00 ft	280.00 ml/min
9/14/2021 11:11 AM	55:00	5.81 pH	21.57 °C	768.02 µS/cm	0.06 mg/L	2.18 NTU	27.3 mV	21.00 ft	280.00 ml/min
9/14/2021 11:16 AM	01:00:00	5.81 pH	21.75 °C	770.48 µS/cm	0.05 mg/L	2.22 NTU	28.7 mV	21.00 ft	280.00 ml/min
9/14/2021 11:21 AM	01:05:00	5.81 pH	21.84 °C	766.58 µS/cm	0.05 mg/L	2.38 NTU	29.9 mV	21.00 ft	280.00 ml/min



**Samples**

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

# Low-Flow Test Report:

Test Date / Time: 9/10/2021 12:26:02 PM

Project: Plant McDonough (9)

Operator Name: Erik Rheams

<b>Location Name: B-109D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 89 ft</b> <b>Total Depth: 99 ft</b> <b>Initial Depth to Water: 38.48 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 94 ft</b> <b>Estimated Total Volume Pumped: 5880 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 160 ml/min</b> <b>Final Draw Down: 0.13 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850751</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/10/2021 12:26 PM	00:00	6.61 pH	28.83 °C	377.12 µS/cm	3.16 mg/L	6.01 NTU	-125.8 mV	38.48 ft	160.00 ml/min
9/10/2021 12:27 PM	01:45	6.67 pH	27.36 °C	365.27 µS/cm	4.07 mg/L	6.01 NTU	-118.0 mV	38.48 ft	160.00 ml/min
9/10/2021 12:32 PM	06:45	6.83 pH	25.38 °C	362.77 µS/cm	6.64 mg/L	11.20 NTU	-55.7 mV	38.56 ft	160.00 ml/min
9/10/2021 12:37 PM	11:45	6.89 pH	25.80 °C	345.76 µS/cm	7.88 mg/L	8.68 NTU	-57.7 mV	38.61 ft	160.00 ml/min
9/10/2021 12:42 PM	16:45	6.88 pH	26.42 °C	341.41 µS/cm	8.44 mg/L	8.15 NTU	-64.7 mV	38.61 ft	160.00 ml/min
9/10/2021 12:47 PM	21:45	6.87 pH	26.81 °C	333.41 µS/cm	8.63 mg/L	6.92 NTU	-77.5 mV	38.61 ft	160.00 ml/min
9/10/2021 12:52 PM	26:45	6.87 pH	26.66 °C	321.00 µS/cm	8.56 mg/L	7.46 NTU	-79.7 mV	38.61 ft	160.00 ml/min
9/10/2021 12:57 PM	31:45	6.88 pH	26.91 °C	318.32 µS/cm	8.86 mg/L	6.09 NTU	-82.6 mV	38.61 ft	160.00 ml/min
9/10/2021 1:02 PM	36:45	6.86 pH	27.11 °C	314.33 µS/cm	8.50 mg/L	3.86 NTU	-84.2 mV	38.61 ft	160.00 ml/min

## Samples

Sample ID:	Description:
B-109D	EB-3

# Low-Flow Test Report:

Test Date / Time: 9/14/2021 3:02:52 PM

Project: Plant McDonough (15)

Operator Name: D Fulton

<b>Location Name: B-111D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 74.2 ft</b> <b>Total Depth: 84.2 ft Initial</b> <b>Depth to Water: 11.68 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 79 ft</b> <b>Estimated Total Volume Pumped: 3.5 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min Final</b> <b>Draw Down: 0.62 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850767</b>
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## Test Notes:

## Weather Conditions:

Clear,85

## 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	
9/14/2021 3:02 PM	00:00	6.98 pH	31.90 °C	838.10 µS/cm	4.95 mg/L	1.20 NTU	-59.0 mV	11.89 ft	150.00 ml/min
9/14/2021 3:07 PM	05:00	7.12 pH	22.76 °C	929.76 µS/cm	0.59 mg/L	2.24 NTU	-80.2 mV	12.12 ft	100.00 ml/min
9/14/2021 3:12 PM	10:00	7.14 pH	22.27 °C	939.17 µS/cm	0.41 mg/L	1.18 NTU	-131.3 mV	12.18 ft	100.00 ml/min
9/14/2021 3:17 PM	15:00	7.14 pH	22.20 °C	941.33 µS/cm	0.34 mg/L	2.63 NTU	-87.7 mV	12.22 ft	100.00 ml/min
9/14/2021 3:22 PM	20:00	7.15 pH	22.80 °C	939.47 µS/cm	0.36 mg/L	0.96 NTU	-89.6 mV	12.23 ft	100.00 ml/min
9/14/2021 3:27 PM	25:00	7.15 pH	22.32 °C	934.33 µS/cm	0.33 mg/L	2.51 NTU	-89.8 mV	12.28 ft	100.00 ml/min
9/14/2021 3:32 PM	30:00	7.18 pH	22.14 °C	937.33 µS/cm	0.32 mg/L	2.23 NTU	-90.9 mV	12.29 ft	100.00 ml/min
9/14/2021 3:37 PM	35:00	7.29 pH	22.05 °C	947.92 µS/cm	0.29 mg/L	2.12 NTU	-94.6 mV	12.30 ft	100.00 ml/min

## Samples

Sample ID:	Description:
B-111D	EB-4



# Low-Flow Test Report:

Test Date / Time: 9/14/2021 2:20:51 PM

Project: Plant McDonough (6)

Operator Name: E. Dhondt

<b>Location Name: B-115D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 70 ft</b> <b>Total Depth: 80 ft</b> <b>Initial Depth to Water: 19.15 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 75 ft</b> <b>Estimated Total Volume Pumped: 9112 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 5.7 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/14/2021 2:20 PM	00:00	5.80 pH	21.76 °C	804.21 µS/cm	0.07 mg/L	3.41 NTU	32.1 mV	23.02 ft	280.00 ml/min
9/14/2021 2:25 PM	05:00	5.57 pH	21.91 °C	742.57 µS/cm	0.73 mg/L	2.79 NTU	47.9 mV	23.78 ft	280.00 ml/min
9/14/2021 2:30 PM	10:00	5.52 pH	21.80 °C	714.11 µS/cm	0.49 mg/L	2.62 NTU	45.2 mV	24.30 ft	280.00 ml/min
9/14/2021 2:35 PM	15:00	5.47 pH	21.68 °C	699.66 µS/cm	0.34 mg/L	2.45 NTU	43.3 mV	24.64 ft	280.00 ml/min
9/14/2021 2:41 PM	20:24	5.42 pH	22.09 °C	681.07 µS/cm	0.27 mg/L	2.02 NTU	47.2 mV	24.90 ft	280.00 ml/min
9/14/2021 2:46 PM	25:24	5.39 pH	21.90 °C	664.55 µS/cm	0.21 mg/L	1.79 NTU	40.7 mV	25.00 ft	200.00 ml/min
9/14/2021 2:51 PM	30:24	5.40 pH	22.21 °C	655.61 µS/cm	0.06 mg/L	1.79 NTU	35.6 mV	24.95 ft	200.00 ml/min
9/14/2021 2:56 PM	35:24	5.38 pH	22.80 °C	639.99 µS/cm	0.04 mg/L	1.76 NTU	35.5 mV	24.85 ft	200.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 9/14/2021 2:34:49 PM

Project: Plant McDonough (18)

Operator Name: Erik Rheams

<b>Location Name: B-120D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 60 ft</b> <b>Total Depth: 70 ft</b> <b>Initial Depth to Water: 34.52 ft</b>	<b>Pump Type: Dedicated bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 65 ft</b> <b>Estimated Total Volume Pumped: 3000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.04 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850751</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/14/2021 2:34 PM	00:00	5.49 pH	25.99 °C	846.11 µS/cm	1.69 mg/L	6.75 NTU	77.3 mV	34.52 ft	200.00 ml/min
9/14/2021 2:39 PM	05:00	5.32 pH	21.13 °C	1,127.5 µS/cm	0.32 mg/L	3.42 NTU	93.4 mV	34.58 ft	200.00 ml/min
9/14/2021 2:44 PM	10:00	5.31 pH	20.87 °C	1,133.8 µS/cm	0.24 mg/L	2.15 NTU	100.1 mV	34.56 ft	200.00 ml/min
9/14/2021 2:49 PM	15:00	5.30 pH	20.66 °C	1,133.2 µS/cm	0.21 mg/L	2.08 NTU	102.8 mV	34.56 ft	200.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 9/9/2021 1:23:11 PM

Project: Plant McDonough (3)

Operator Name: D Fulton

<b>Location Name: B-116D</b> <b>Well Diameter: 2 ft</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 80 ft</b> <b>Total Depth: 90 ft</b> <b>Initial Depth to Water: 42.28 ft</b>	<b>Pump Type: Bladder Pump</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 85 ft</b> <b>Estimated Total Volume Pumped: 6 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.42 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850767</b>
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## 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	
9/9/2021 1:23 PM	00:00	6.08 pH	27.12 °C	107.36 µS/cm	7.49 mg/L	2.08 NTU	129.4 mV	42.70 ft	225.00 ml/min
9/9/2021 1:28 PM	05:00	6.01 pH	19.63 °C	108.63 µS/cm	5.72 mg/L	2.30 NTU	82.6 mV	42.68 ft	225.00 ml/min
9/9/2021 1:33 PM	10:00	6.02 pH	19.15 °C	108.98 µS/cm	5.31 mg/L	4.57 NTU	76.7 mV	42.70 ft	200.00 ml/min
9/9/2021 1:38 PM	15:00	6.02 pH	19.15 °C	109.01 µS/cm	5.06 mg/L	4.78 NTU	75.7 mV	42.70 ft	200.00 ml/min
9/9/2021 1:43 PM	20:00	6.02 pH	19.10 °C	109.27 µS/cm	4.90 mg/L	5.00 NTU	75.0 mV	42.70 ft	200.00 ml/min
9/9/2021 1:48 PM	25:00	6.02 pH	19.15 °C	109.39 µS/cm	4.82 mg/L	3.64 NTU	75.0 mV	42.70 ft	200.00 ml/min
9/9/2021 1:53 PM	30:00	6.02 pH	19.23 °C	108.28 µS/cm	4.72 mg/L	3.76 NTU	75.1 mV	42.70 ft	200.00 ml/min

## Samples

Sample ID:	Description:
B-116D	

# Low-Flow Test Report:

Test Date / Time: 9/8/2021 3:44:20 PM

Project: Plant McDonough (3)

Operator Name: Erik Rheams

<b>Location Name: B-117D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 69.03 ft</b> <b>Total Depth: 79.03 ft</b> <b>Initial Depth to Water: 28.41 ft</b>	<b>Pump Type: dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 74 ft</b> <b>Estimated Total Volume Pumped: 5400 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 180 ml/min</b> <b>Final Draw Down: 0.92 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850751</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/8/2021 3:44 PM	00:00	6.16 pH	25.97 °C	127.86 µS/cm	4.21 mg/L	8.02 NTU	166.9 mV	28.41 ft	180.00 ml/min
9/8/2021 3:49 PM	05:00	6.00 pH	20.57 °C	152.23 µS/cm	2.36 mg/L	19.40 NTU	129.8 mV	29.01 ft	180.00 ml/min
9/8/2021 3:54 PM	10:00	5.99 pH	20.55 °C	152.76 µS/cm	2.14 mg/L	12.30 NTU	111.2 mV	29.22 ft	180.00 ml/min
9/8/2021 3:59 PM	15:00	5.99 pH	20.51 °C	151.83 µS/cm	2.12 mg/L	8.31 NTU	103.7 mV	29.29 ft	180.00 ml/min
9/8/2021 4:04 PM	20:00	6.00 pH	19.98 °C	151.17 µS/cm	2.16 mg/L	6.67 NTU	100.8 mV	29.32 ft	180.00 ml/min
9/8/2021 4:09 PM	25:00	6.00 pH	20.04 °C	144.41 µS/cm	2.09 mg/L	6.66 NTU	100.2 mV	29.32 ft	180.00 ml/min
9/8/2021 4:14 PM	30:00	6.00 pH	20.16 °C	147.22 µS/cm	2.02 mg/L	4.88 NTU	98.3 mV	29.33 ft	180.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 9/8/2021 1:11:12 PM

Project: Plant McDonough

Operator Name: K. Minkara

<b>Location Name: B-118</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 68.32 ft</b> <b>Total Depth: 78.32 ft</b> <b>Initial Depth to Water: 50.46 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 73 ft</b> <b>Estimated Total Volume Pumped: 6000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 240 ml/min</b> <b>Final Draw Down: 0.27 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/8/2021 1:11 PM	00:00	6.08 pH	28.14 °C	102.33 µS/cm	6.23 mg/L	10.11 NTU	136.9 mV	50.46 ft	240.00 ml/min
9/8/2021 1:16 PM	05:00	6.02 pH	19.77 °C	90.18 µS/cm	5.01 mg/L	10.81 NTU	94.1 mV	50.70 ft	240.00 ml/min
9/8/2021 1:21 PM	10:00	6.02 pH	18.98 °C	90.32 µS/cm	4.87 mg/L	7.53 NTU	90.7 mV	50.73 ft	240.00 ml/min
9/8/2021 1:26 PM	15:00	6.02 pH	18.88 °C	89.52 µS/cm	4.89 mg/L	5.29 NTU	89.6 mV	50.73 ft	240.00 ml/min
9/8/2021 1:31 PM	20:00	6.01 pH	18.70 °C	89.15 µS/cm	4.81 mg/L	3.74 NTU	89.0 mV	50.73 ft	240.00 ml/min
9/8/2021 1:36 PM	25:00	6.01 pH	18.91 °C	91.98 µS/cm	4.70 mg/L	2.05 NTU	88.6 mV	50.73 ft	240.00 ml/min

## Samples

Sample ID:	Description:
B-118	

# Low-Flow Test Report:

Test Date / Time: 9/8/2021 2:27:01 PM

Project: Plant McDonough

Operator Name: K. Minkara

<b>Location Name: B-119D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 97.98 ft</b> <b>Total Depth: 107.98 ft</b> <b>Initial Depth to Water: 46.88 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 103 ft</b> <b>Estimated Total Volume Pumped: 6600 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 3.97 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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## Test Notes:

Well labeled as GPC-119D

## 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	
9/8/2021 2:27 PM	00:00	6.62 pH	24.37 °C	160.70 µS/cm	5.26 mg/L	56.40 NTU	-79.8 mV	46.88 ft	180.00 ml/min
9/8/2021 2:32 PM	05:00	7.32 pH	19.72 °C	697.68 µS/cm	0.69 mg/L	25.20 NTU	-63.3 mV	47.43 ft	180.00 ml/min
9/8/2021 2:37 PM	10:00	7.26 pH	19.33 °C	622.03 µS/cm	0.49 mg/L	14.30 NTU	-73.6 mV	48.64 ft	180.00 ml/min
9/8/2021 2:42 PM	15:00	7.07 pH	19.14 °C	530.44 µS/cm	0.59 mg/L	10.32 NTU	-35.7 mV	49.48 ft	180.00 ml/min
9/8/2021 2:47 PM	20:00	6.80 pH	19.14 °C	378.29 µS/cm	1.15 mg/L	5.34 NTU	8.3 mV	50.33 ft	100.00 ml/min
9/8/2021 2:52 PM	25:00	6.75 pH	20.06 °C	372.43 µS/cm	1.56 mg/L	4.83 NTU	22.2 mV	50.59 ft	100.00 ml/min
9/8/2021 2:57 PM	30:00	6.73 pH	20.41 °C	345.91 µS/cm	1.60 mg/L	2.62 NTU	27.7 mV	50.70 ft	100.00 ml/min
9/8/2021 3:02 PM	35:00	6.72 pH	20.57 °C	335.13 µS/cm	1.73 mg/L	3.76 NTU	33.0 mV	50.73 ft	100.00 ml/min
9/8/2021 3:07 PM	40:00	6.70 pH	20.41 °C	313.36 µS/cm	1.69 mg/L	1.57 NTU	31.1 mV	50.78 ft	100.00 ml/min
9/8/2021 3:12 PM	45:00	6.69 pH	20.43 °C	315.99 µS/cm	1.64 mg/L	0.88 NTU	37.3 mV	50.83 ft	100.00 ml/min
9/8/2021 3:17 PM	50:00	6.68 pH	20.36 °C	305.64 µS/cm	1.64 mg/L	0.93 NTU	33.6 mV	50.85 ft	100.00 ml/min

## Samples

Sample ID:	Description:
B-119D	

**APPENDIX A**

**Field Data Forms January 2022**

# Low-Flow Test Report:

Test Date / Time: 1/28/2022 8:54:52 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: DGWA-53</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 26.89 ft</b> <b>Total Depth: 36.89 ft</b> <b>Initial Depth to Water: 11.75 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 31 ft</b> <b>Estimated Total Volume Pumped: 9000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 7.45 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850767</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
1/28/2022 8:54 AM	00:00	6.41 pH	12.12 °C	173.97 µS/cm	3.92 mg/L	11.10 NTU	99.9 mV	11.75 ft	150.00 ml/min
1/28/2022 8:59 AM	05:00	6.36 pH	14.33 °C	168.70 µS/cm	3.52 mg/L	11.90 NTU	113.2 mV	13.35 ft	150.00 ml/min
1/28/2022 9:04 AM	10:00	6.36 pH	14.44 °C	167.31 µS/cm	3.44 mg/L	12.00 NTU	111.9 mV	14.20 ft	150.00 ml/min
1/28/2022 9:09 AM	15:00	6.34 pH	14.39 °C	168.48 µS/cm	3.43 mg/L	11.50 NTU	111.4 mV	14.90 ft	150.00 ml/min
1/28/2022 9:14 AM	20:00	6.34 pH	14.45 °C	169.68 µS/cm	3.57 mg/L	11.00 NTU	109.4 mV	15.52 ft	150.00 ml/min
1/28/2022 9:19 AM	25:00	6.35 pH	14.44 °C	168.04 µS/cm	3.48 mg/L	12.00 NTU	87.5 mV	16.15 ft	150.00 ml/min
1/28/2022 9:24 AM	30:00	6.35 pH	14.42 °C	169.15 µS/cm	3.40 mg/L	11.10 NTU	105.8 mV	16.70 ft	150.00 ml/min
1/28/2022 9:29 AM	35:00	6.33 pH	14.17 °C	170.98 µS/cm	3.29 mg/L	13.67 NTU	101.4 mV	17.10 ft	100.00 ml/min
1/28/2022 9:34 AM	40:00	6.33 pH	14.00 °C	171.87 µS/cm	3.34 mg/L	13.76 NTU	101.6 mV	17.42 ft	100.00 ml/min
1/28/2022 9:39 AM	45:00	6.34 pH	14.03 °C	170.84 µS/cm	3.36 mg/L	14.61 NTU	100.3 mV	17.42 ft	100.00 ml/min
1/28/2022 9:44 AM	50:00	6.35 pH	14.04 °C	172.64 µS/cm	3.29 mg/L	13.93 NTU	82.2 mV	18.00 ft	100.00 ml/min
1/28/2022 9:49 AM	55:00	6.34 pH	14.30 °C	170.68 µS/cm	3.22 mg/L	14.07 NTU	78.9 mV	18.25 ft	100.00 ml/min
1/28/2022 9:54 AM	01:00:00	6.33 pH	14.13 °C	171.73 µS/cm	3.15 mg/L	14.96 NTU	88.4 mV	18.50 ft	100.00 ml/min
1/28/2022 9:59 AM	01:05:00	6.35 pH	14.13 °C	170.55 µS/cm	3.11 mg/L	11.50 NTU	75.7 mV	18.72 ft	100.00 ml/min
1/28/2022 10:04 AM	01:10:00	6.34 pH	14.31 °C	172.61 µS/cm	3.02 mg/L	14.65 NTU	82.8 mV	19.00 ft	100.00 ml/min

1/28/2022 10:09 AM	01:15:00	6.35 pH	14.31 °C	171.60 µS/cm	2.97 mg/L	11.99 NTU	72.3 mV	19.20 ft	100.00 ml/min
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## Samples

Sample ID:	Description:
DGWA-53	

# Low-Flow Test Report:

Test Date / Time: 1/18/2022 4:00:59 PM

Project: Plant McDonough

Operator Name: Duane Fulton

<b>Location Name: DGWA-70A</b> <b>Well Diameter: 2 ft</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 52.41 ft</b> <b>Total Depth: 62.41 ft</b> <b>Initial Depth to Water: 41.5 ft</b>	<b>Pump Type: Dedicated Bladder</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 57 ft</b> <b>Pump Intake From TOC: 57 ft</b> <b>Estimated Total Volume Pumped: 3000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 0.28 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850751</b>
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## Test Notes:

## Weather Conditions:

Clear, 51

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 2	+/- 10	+/- 5	
1/18/2022 4:00 PM	00:00	7.49 pH	16.32 °C	72.07 µS/cm	8.65 mg/L	0.33 NTU	191.1 mV	41.75 ft	100.00 ml/min
1/18/2022 4:05 PM	05:00	5.49 pH	16.61 °C	70.62 µS/cm	4.94 mg/L	2.87 NTU	171.1 mV	41.75 ft	100.00 ml/min
1/18/2022 4:10 PM	10:00	5.50 pH	16.63 °C	70.10 µS/cm	4.82 mg/L	1.60 NTU	159.5 mV	41.76 ft	100.00 ml/min
1/18/2022 4:15 PM	15:00	5.48 pH	16.41 °C	70.76 µS/cm	4.79 mg/L	1.26 NTU	155.9 mV	41.78 ft	100.00 ml/min
1/18/2022 4:20 PM	20:00	5.49 pH	16.52 °C	71.55 µS/cm	4.77 mg/L	0.88 NTU	166.9 mV	41.78 ft	100.00 ml/min
1/18/2022 4:25 PM	25:00	5.50 pH	16.33 °C	71.69 µS/cm	4.76 mg/L	0.64 NTU	164.9 mV	41.78 ft	100.00 ml/min
1/18/2022 4:30 PM	30:00	5.50 pH	16.15 °C	71.60 µS/cm	4.78 mg/L	0.44 NTU	164.6 mV	41.78 ft	100.00 ml/min

## Samples

Sample ID:	Description:
DGWA-70A	Groundwater Sample

# Low-Flow Test Report:

Test Date / Time: 1/18/2022 4:05:01 PM

Project: Plant McDonough

Operator Name: Joe Booth

<b>Location Name: DGWA-71</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.71 ft</b> <b>Total Depth: 47.71 ft</b> <b>Initial Depth to Water: 28.53 ft</b>	<b>Pump Type: QED Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 42 ft</b> <b>Pump Intake From TOC: 42 ft</b> <b>Estimated Total Volume Pumped: 2895 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 180 ml/min</b> <b>Final Draw Down: 0.04 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843285</b>
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## Test Notes:

Prepurged 2 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.3	+/- 10	+/- 1000 %	+/- 5	
1/18/2022 4:05 PM	00:00	5.59 pH	16.39 °C	126.50 µS/cm	1.37 mg/L	2.33 NTU	110.7 mV	28.53 ft	180.00 ml/min
1/18/2022 4:07 PM	02:02	5.55 pH	16.38 °C	129.27 µS/cm	1.24 mg/L	2.33 NTU	114.8 mV	28.57 ft	180.00 ml/min
1/18/2022 4:11 PM	06:02	5.52 pH	16.45 °C	127.58 µS/cm	1.35 mg/L	2.94 NTU	101.0 mV	28.57 ft	180.00 ml/min
1/18/2022 4:15 PM	10:02	5.51 pH	16.32 °C	127.60 µS/cm	1.22 mg/L	1.93 NTU	99.0 mV	28.57 ft	180.00 ml/min
1/18/2022 4:17 PM	12:05	5.51 pH	16.30 °C	128.62 µS/cm	1.20 mg/L	1.78 NTU	107.0 mV	28.57 ft	180.00 ml/min
1/18/2022 4:21 PM	16:05	5.51 pH	16.36 °C	128.78 µS/cm	1.11 mg/L	1.67 NTU	106.8 mV	28.57 ft	180.00 ml/min

## Samples

Sample ID:	Description:
BGWA-71	Metals, TDS, Alkalinity, Inorganics, Radium

# Low-Flow Test Report:

Test Date / Time: 1/20/2022 12:44:06 PM

Project: Plant McDonough

Operator Name: Duane Fulton

<b>Location Name: B-62</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 29.62 ft</b> <b>Total Depth: 39.62 ft</b> <b>Initial Depth to Water: 15.25 ft</b>	<b>Pump Type: Dedicated Bladder Pump</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 35 ft</b> <b>Pump Intake From TOC: 35 ft</b> <b>Estimated Total Volume Pumped: 16850 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 0.23 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850751</b>
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## Test Notes:

## Weather Conditions:

Rain, 45 Deg.

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 2	+/- 10	+/- 0.3	
1/20/2022 12:44 PM	00:00	6.93 pH	9.18 °C	534.18 µS/cm	7.45 mg/L	46.10 NTU	-14.3 mV	15.35 ft	150.00 ml/min
1/20/2022 12:49 PM	05:00	6.76 pH	13.40 °C	566.15 µS/cm	0.58 mg/L	10.78 NTU	-41.3 mV	15.38 ft	80.00 ml/min
1/20/2022 12:54 PM	10:00	6.69 pH	14.76 °C	542.20 µS/cm	0.78 mg/L	9.03 NTU	-26.2 mV	15.38 ft	80.00 ml/min
1/20/2022 12:59 PM	15:00	6.69 pH	14.56 °C	546.35 µS/cm	0.33 mg/L	11.90 NTU	-21.6 mV	15.38 ft	105.00 ml/min
1/20/2022 1:04 PM	20:00	6.68 pH	14.40 °C	543.15 µS/cm	0.30 mg/L	14.70 NTU	-13.5 mV	15.40 ft	105.00 ml/min
1/20/2022 1:09 PM	25:00	6.67 pH	14.36 °C	540.81 µS/cm	0.27 mg/L	18.10 NTU	-11.4 mV	15.40 ft	105.00 ml/min
1/20/2022 1:14 PM	30:00	6.65 pH	14.49 °C	537.67 µS/cm	0.24 mg/L	20.50 NTU	-15.5 mV	15.40 ft	105.00 ml/min
1/20/2022 1:19 PM	35:00	6.66 pH	14.72 °C	528.36 µS/cm	0.96 mg/L	25.20 NTU	-15.8 mV	15.40 ft	105.00 ml/min
1/20/2022 1:24 PM	40:00	6.66 pH	14.68 °C	527.87 µS/cm	0.72 mg/L	24.20 NTU	-14.3 mV	15.40 ft	105.00 ml/min
1/20/2022 1:29 PM	45:00	6.67 pH	13.95 °C	525.62 µS/cm	0.76 mg/L	28.30 NTU	-13.8 mV	15.38 ft	60.00 ml/min
1/20/2022 1:34 PM	50:00	6.67 pH	13.77 °C	537.48 µS/cm	0.39 mg/L	21.90 NTU	-13.4 mV	15.38 ft	75.00 ml/min
1/20/2022 1:39 PM	55:00	6.67 pH	13.86 °C	539.87 µS/cm	0.33 mg/L	20.90 NTU	-7.7 mV	15.40 ft	75.00 ml/min
1/20/2022 1:44 PM	01:00:00	6.67 pH	14.36 °C	528.32 µS/cm	0.76 mg/L	24.10 NTU	-14.5 mV	15.40 ft	75.00 ml/min



1/20/2022 1:49 PM	01:05:00	6.68 pH	14.33 °C	525.79 µS/cm	1.10 mg/L	21.60 NTU	-14.0 mV	15.40 ft	75.00 ml/min
1/20/2022 1:54 PM	01:10:00	6.68 pH	14.32 °C	526.98 µS/cm	0.92 mg/L	22.50 NTU	-13.1 mV	15.40 ft	75.00 ml/min
1/20/2022 1:59 PM	01:15:00	6.67 pH	13.99 °C	527.01 µS/cm	1.07 mg/L	22.00 NTU	-12.2 mV	15.40 ft	75.00 ml/min
1/20/2022 2:04 PM	01:20:00	6.66 pH	15.76 °C	529.73 µS/cm	0.72 mg/L	23.80 NTU	-14.9 mV	15.50 ft	150.00 ml/min
1/20/2022 2:09 PM	01:25:00	6.65 pH	16.11 °C	512.38 µS/cm	0.81 mg/L	37.50 NTU	-18.8 mV	15.50 ft	150.00 ml/min
1/20/2022 2:14 PM	01:30:00	6.60 pH	15.97 °C	465.61 µS/cm	0.95 mg/L	36.90 NTU	-20.7 mV	15.50 ft	150.00 ml/min
1/20/2022 2:19 PM	01:35:00	6.47 pH	15.90 °C	405.04 µS/cm	0.36 mg/L	28.10 NTU	-15.5 mV	15.50 ft	150.00 ml/min
1/20/2022 2:24 PM	01:40:00	6.43 pH	16.03 °C	368.65 µS/cm	0.88 mg/L	21.20 NTU	-16.7 mV	15.50 ft	150.00 ml/min
1/20/2022 2:29 PM	01:45:00	6.40 pH	16.06 °C	344.66 µS/cm	1.27 mg/L	15.80 NTU	-17.6 mV	15.50 ft	150.00 ml/min
1/20/2022 2:34 PM	01:50:00	6.37 pH	15.89 °C	331.11 µS/cm	1.04 mg/L	13.80 NTU	-15.3 mV	15.50 ft	150.00 ml/min
1/20/2022 2:39 PM	01:55:00	6.35 pH	15.85 °C	323.04 µS/cm	1.01 mg/L	12.30 NTU	-14.3 mV	15.50 ft	150.00 ml/min
1/20/2022 2:44 PM	02:00:00	6.34 pH	15.88 °C	318.63 µS/cm	1.10 mg/L	9.81 NTU	-14.9 mV	15.50 ft	150.00 ml/min
1/20/2022 2:49 PM	02:05:00	6.33 pH	15.98 °C	313.53 µS/cm	1.26 mg/L	6.89 NTU	-15.8 mV	15.48 ft	150.00 ml/min
1/20/2022 2:54 PM	02:10:00	6.32 pH	15.94 °C	306.04 µS/cm	1.30 mg/L	5.61 NTU	-17.0 mV	15.48 ft	150.00 ml/min
1/20/2022 2:59 PM	02:15:00	6.33 pH	15.89 °C	305.60 µS/cm	1.05 mg/L	4.79 NTU	-17.1 mV	15.48 ft	150.00 ml/min
1/20/2022 3:04 PM	02:20:00	6.32 pH	15.84 °C	304.59 µS/cm	1.07 mg/L	4.19 NTU	-16.6 mV	15.48 ft	150.00 ml/min

## Samples

Sample ID:	Description:
B-62	

# Low-Flow Test Report:

Test Date / Time: 1/21/2022 9:47:37 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-100</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.93 ft</b> <b>Total Depth: 47.93 ft</b> <b>Initial Depth to Water: 33 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 42 ft</b> <b>Pump Intake From TOC: 42 ft</b> <b>Estimated Total Volume Pumped: 3750 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 0.39 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728623</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
1/21/2022 9:47 AM	00:00	5.23 pH	15.35 °C	855.09 µS/cm	0.74 mg/L	12.20 NTU	77.1 mV	33.00 ft	150.00 ml/min
1/21/2022 9:52 AM	05:00	5.22 pH	16.20 °C	856.27 µS/cm	0.37 mg/L	10.95 NTU	61.1 mV	33.30 ft	150.00 ml/min
1/21/2022 9:57 AM	10:00	5.22 pH	16.38 °C	857.99 µS/cm	0.28 mg/L	8.89 NTU	52.3 mV	33.30 ft	150.00 ml/min
1/21/2022 10:02 AM	15:00	5.23 pH	16.65 °C	862.01 µS/cm	0.22 mg/L	8.87 NTU	48.5 mV	33.34 ft	150.00 ml/min
1/21/2022 10:07 AM	20:00	5.23 pH	16.69 °C	864.52 µS/cm	0.19 mg/L	5.87 NTU	42.0 mV	33.39 ft	150.00 ml/min
1/21/2022 10:12 AM	25:00	5.23 pH	16.89 °C	871.77 µS/cm	0.17 mg/L	4.06 NTU	37.8 mV	33.39 ft	150.00 ml/min

## Samples

Sample ID:	Description:
B-100	

# Low-Flow Test Report:

Test Date / Time: 1/20/2022 10:28:13 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: DGWC-2</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 42.42 ft</b> <b>Total Depth: 52.42 ft</b> <b>Initial Depth to Water: 28.96 ft</b>	<b>Pump Type: Dedicated Bladder</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 47 ft</b> <b>Pump Intake From TOC: 47 ft</b> <b>Estimated Total Volume Pumped: 10500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 300 ml/min</b> <b>Final Draw Down: 0.79 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728623</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
1/20/2022 10:28 AM	00:00	6.15 pH	16.49 °C	358.36 µS/cm	1.58 mg/L	12.50 NTU	155.2 mV	28.96 ft	300.00 ml/min
1/20/2022 10:33 AM	05:00	5.97 pH	16.99 °C	361.04 µS/cm	0.71 mg/L	10.93 NTU	153.6 mV	29.66 ft	300.00 ml/min
1/20/2022 10:38 AM	10:00	5.95 pH	16.78 °C	362.10 µS/cm	0.71 mg/L	8.20 NTU	151.0 mV	29.70 ft	300.00 ml/min
1/20/2022 10:43 AM	15:00	5.91 pH	16.86 °C	364.68 µS/cm	0.64 mg/L	7.52 NTU	166.1 mV	29.72 ft	300.00 ml/min
1/20/2022 10:48 AM	20:00	5.93 pH	16.74 °C	364.80 µS/cm	0.50 mg/L	5.66 NTU	165.2 mV	29.72 ft	300.00 ml/min
1/20/2022 10:53 AM	25:00	5.94 pH	16.74 °C	363.35 µS/cm	0.61 mg/L	4.98 NTU	161.2 mV	29.75 ft	300.00 ml/min
1/20/2022 10:58 AM	30:00	5.95 pH	16.65 °C	362.83 µS/cm	0.62 mg/L	4.22 NTU	157.8 mV	29.75 ft	300.00 ml/min
1/20/2022 11:03 AM	35:00	5.93 pH	16.94 °C	363.96 µS/cm	0.15 mg/L	4.26 NTU	156.9 mV	29.75 ft	300.00 ml/min

## Samples

Sample ID:	Description:
DGWC-2	

# Low-Flow Test Report:

Test Date / Time: 1/24/2022 12:50:24 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: DGWC-4</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 36.71 ft</b> <b>Total Depth: 46.71 ft</b> <b>Initial Depth to Water: 24 ft</b>	<b>Pump Type: Dedicated bladder</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 41 ft</b> <b>Pump Intake From TOC: 41 ft</b> <b>Estimated Total Volume Pumped: 6000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 300 ml/min</b> <b>Final Draw Down: 0.43 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728623</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
1/24/2022 12:50 PM	00:00	6.79 pH	19.39 °C	1,646.6 µS/cm	7.50 mg/L	0.65 NTU	-2.6 mV	24.00 ft	300.00 ml/min
1/24/2022 12:55 PM	05:00	5.89 pH	17.50 °C	1,923.6 µS/cm	0.99 mg/L	0.71 NTU	47.3 mV	24.40 ft	300.00 ml/min
1/24/2022 1:00 PM	10:00	5.82 pH	17.45 °C	1,983.4 µS/cm	0.64 mg/L	2.66 NTU	55.1 mV	24.43 ft	300.00 ml/min
1/24/2022 1:05 PM	15:00	5.80 pH	17.41 °C	1,994.8 µS/cm	0.47 mg/L	2.72 NTU	59.0 mV	24.43 ft	300.00 ml/min
1/24/2022 1:10 PM	20:00	5.79 pH	17.36 °C	2,004.0 µS/cm	0.42 mg/L	2.73 NTU	62.0 mV	24.43 ft	300.00 ml/min

## Samples

Sample ID:	Description:
DGWC-4	

# Low-Flow Test Report:

Test Date / Time: 1/24/2022 10:12:53 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: DGWC-5</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 23.23 ft</b> <b>Total Depth: 33.23 ft</b> <b>Initial Depth to Water: 9.46 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 28 ft</b> <b>Pump Intake From TOC: 28 ft</b> <b>Estimated Total Volume Pumped: 6000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 300 ml/min</b> <b>Final Draw Down: 0.33 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728623</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
1/24/2022 10:12 AM	00:00	5.17 pH	16.39 °C	874.96 µS/cm	4.98 mg/L	1.86 NTU	173.6 mV	9.46 ft	300.00 ml/min
1/24/2022 10:17 AM	05:00	4.80 pH	16.53 °C	1,045.2 µS/cm	1.17 mg/L	1.78 NTU	481.5 mV	9.77 ft	300.00 ml/min
1/24/2022 10:22 AM	10:00	4.78 pH	16.69 °C	1,069.9 µS/cm	0.75 mg/L	1.80 NTU	537.2 mV	9.78 ft	300.00 ml/min
1/24/2022 10:27 AM	15:00	4.78 pH	16.91 °C	1,077.6 µS/cm	0.42 mg/L	1.38 NTU	538.3 mV	9.79 ft	300.00 ml/min
1/24/2022 10:32 AM	20:00	4.79 pH	16.85 °C	1,081.0 µS/cm	0.35 mg/L	1.50 NTU	503.2 mV	9.79 ft	300.00 ml/min

## Samples

Sample ID:	Description:
DGWC-5	

# Low-Flow Test Report:

Test Date / Time: 1/25/2022 11:25:50 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: DGWC-8</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 41.33 ft</b> <b>Total Depth: 51.33 ft</b> <b>Initial Depth to Water: 39.45 ft</b>	<b>Pump Type: Dedicated bladder</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 46ft</b> <b>Pump Intake From TOC: 46 ft</b> <b>Estimated Total Volume Pumped: 4003 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.15 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728623</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
1/25/2022 11:25 AM	00:00	5.44 pH	19.10 °C	414.42 µS/cm	2.75 mg/L	1.78 NTU	125.5 mV	39.45 ft	200.00 ml/min
1/25/2022 11:30 AM	05:01	5.20 pH	18.17 °C	421.19 µS/cm	1.53 mg/L	4.15 NTU	118.1 mV	39.59 ft	200.00 ml/min
1/25/2022 11:35 AM	10:01	5.17 pH	18.31 °C	425.65 µS/cm	0.71 mg/L	3.13 NTU	108.3 mV	39.60 ft	200.00 ml/min
1/25/2022 11:40 AM	15:01	5.16 pH	18.42 °C	424.67 µS/cm	0.53 mg/L	2.70 NTU	104.9 mV	39.60 ft	200.00 ml/min
1/25/2022 11:45 AM	20:01	5.16 pH	18.44 °C	426.60 µS/cm	0.42 mg/L	1.94 NTU	120.0 mV	39.60 ft	200.00 ml/min

## Samples

Sample ID:	Description:
DGWC-8	

# Low-Flow Test Report:

Test Date / Time: 1/26/2022 3:35:22 PM

Project: Plant McDonough

Operator Name: Duane Fulton

<b>Location Name: DGWC-9</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 23.73 ft</b> <b>Total Depth: 33.73 ft</b>	<b>Pump Type: Dedicated Bladder</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 30 ft</b> <b>Pump Intake From TOC: 30 ft</b> <b>Estimated Total Volume Pumped: 21750 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 300 ml/min</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850751</b>
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## Test Notes:

Three well volumes. Blockage at 25 feet, above depth to water.

## Weather Conditions:

Clear

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 2	+/- 10	+/- 0.3	
1/26/2022 3:35 PM	00:00	3.80 pH	14.77 °C	696.85 µS/cm	7.44 mg/L	7.52 NTU	192.3 mV		475.00 ml/min
1/26/2022 3:40 PM	05:00	3.87 pH	18.13 °C	688.71 µS/cm	4.18 mg/L	13.00 NTU	207.3 mV		475.00 ml/min
1/26/2022 3:45 PM	10:00	3.87 pH	18.26 °C	679.51 µS/cm	3.59 mg/L	10.58 NTU	272.6 mV		475.00 ml/min
1/26/2022 3:50 PM	15:00	3.87 pH	18.30 °C	681.45 µS/cm	3.38 mg/L	5.09 NTU	245.7 mV		475.00 ml/min
1/26/2022 3:55 PM	20:00	3.87 pH	18.28 °C	682.12 µS/cm	3.18 mg/L	7.09 NTU	258.6 mV		475.00 ml/min
1/26/2022 4:00 PM	25:00	3.87 pH	18.08 °C	678.80 µS/cm	3.01 mg/L	1.86 NTU	345.0 mV		475.00 ml/min
1/26/2022 4:05 PM	30:00	3.87 pH	18.05 °C	678.08 µS/cm	2.91 mg/L	1.35 NTU	279.9 mV		300.00 ml/min
1/26/2022 4:10 PM	35:00	3.88 pH	18.09 °C	679.20 µS/cm	2.84 mg/L	1.50 NTU	282.6 mV		300.00 ml/min
1/26/2022 4:15 PM	40:00	3.88 pH	18.08 °C	679.66 µS/cm	2.71 mg/L	1.28 NTU	285.5 mV		300.00 ml/min
1/26/2022 4:20 PM	45:00	3.88 pH	18.08 °C	678.55 µS/cm	2.66 mg/L	1.05 NTU	288.0 mV		300.00 ml/min
1/26/2022 4:25 PM	50:00	3.88 pH	18.08 °C	679.25 µS/cm	2.53 mg/L	1.23 NTU	376.2 mV		300.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 1/26/2022 2:14:29 PM

Project: Plant McDonough

Operator Name: E. Rheams

<b>Location Name: DGWC-10</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.8 ft</b> <b>Total Depth: 47.8 ft</b> <b>Initial Depth to Water: 27.61 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 39.62 ft</b> <b>Pump Intake From TOC: 39.62 ft</b> <b>Estimated Total Volume Pumped: 3300 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 220 ml/min</b> <b>Final Draw Down: 0.38 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/26/2022 2:14 PM	00:00	5.13 pH	13.62 °C	642.10 µS/cm	7.55 mg/L	10.42 NTU	186.7 mV	27.61 ft	220.00 ml/min
1/26/2022 2:19 PM	05:00	4.98 pH	17.37 °C	601.15 µS/cm	6.37 mg/L	1.66 NTU	182.5 mV	27.99 ft	220.00 ml/min
1/26/2022 2:24 PM	10:00	4.93 pH	17.72 °C	615.94 µS/cm	6.25 mg/L	1.64 NTU	224.6 mV	27.99 ft	220.00 ml/min
1/26/2022 2:29 PM	15:00	4.90 pH	17.68 °C	620.87 µS/cm	6.16 mg/L	1.85 NTU	210.1 mV	27.99 ft	220.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 1/25/2022 2:55:16 PM

Project: Plant McDonough

Operator Name: Joe Booth

<b>Location Name: DGWC-11</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 41.72 ft</b> <b>Total Depth: 51.72 ft</b> <b>Initial Depth to Water: 11.78 ft</b>	<b>Pump Type: QED dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 47 ft</b> <b>Pump Intake From TOC: 47 ft</b> <b>Estimated Total Volume Pumped: 2400 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: -0.29 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843285</b>
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## Test Notes:

Prepurge 1.5 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/25/2022 2:55 PM	00:00	5.54 pH	18.57 °C	1,487.9 µS/cm	0.33 mg/L	8.92 NTU	79.8 mV	10.78 ft	150.00 ml/min
1/25/2022 2:59 PM	04:00	5.53 pH	18.37 °C	1,465.8 µS/cm	0.29 mg/L	4.73 NTU	80.4 mV	11.43 ft	150.00 ml/min
1/25/2022 3:03 PM	08:00	5.54 pH	18.26 °C	1,484.7 µS/cm	0.26 mg/L	2.72 NTU	80.6 mV	11.49 ft	150.00 ml/min
1/25/2022 3:07 PM	12:00	5.54 pH	18.29 °C	1,485.4 µS/cm	0.27 mg/L	2.75 NTU	80.7 mV	11.49 ft	150.00 ml/min
1/25/2022 3:11 PM	16:00	5.54 pH	18.23 °C	1,481.8 µS/cm	0.23 mg/L	2.71 NTU	81.0 mV	11.49 ft	150.00 ml/min

## Samples

Sample ID:	Description:
DGWC-11	Metals, TDS, Inorganics, Alkalinity, Radium

# Low-Flow Test Report:

Test Date / Time: 1/25/2022 9:59:43 AM

Project: Plant McDonough

Operator Name: Joe Booth

<b>Location Name: DGWC-12</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 18.24 ft</b> <b>Total Depth: 28.24 ft</b> <b>Initial Depth to Water: 8.39 ft</b>	<b>Pump Type: QED Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 23.24 ft</b> <b>Pump Intake From TOC: 23.24 ft</b> <b>Estimated Total Volume Pumped: 6869.333 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 160 ml/min</b> <b>Final Draw Down: 0.34 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843285</b>
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## Test Notes:

Prepurge 1.5 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/25/2022 9:59 AM	00:00	5.80 pH	16.99 °C	975.60 µS/cm	0.97 mg/L	99.70 NTU	53.7 mV	8.39 ft	160.00 ml/min
1/25/2022 10:03 AM	04:00	5.84 pH	16.99 °C	977.29 µS/cm	0.88 mg/L	33.30 NTU	44.9 mV	8.70 ft	160.00 ml/min
1/25/2022 10:07 AM	08:00	5.87 pH	17.03 °C	978.90 µS/cm	0.73 mg/L	20.10 NTU	39.2 mV	8.73 ft	160.00 ml/min
1/25/2022 10:11 AM	12:00	5.88 pH	17.08 °C	988.39 µS/cm	0.39 mg/L	18.90 NTU	33.7 mV	8.73 ft	160.00 ml/min
1/25/2022 10:15 AM	16:00	5.89 pH	17.09 °C	992.05 µS/cm	0.29 mg/L	15.40 NTU	28.5 mV	8.73 ft	160.00 ml/min
1/25/2022 10:19 AM	20:00	5.91 pH	17.10 °C	989.65 µS/cm	0.25 mg/L	12.60 NTU	23.0 mV	8.73 ft	160.00 ml/min
1/25/2022 10:22 AM	22:56	5.92 pH	17.15 °C	984.97 µS/cm	0.24 mg/L	10.40 NTU	19.4 mV	8.73 ft	160.00 ml/min
1/25/2022 10:26 AM	26:56	5.93 pH	17.08 °C	979.87 µS/cm	0.22 mg/L	9.53 NTU	15.4 mV	8.73 ft	160.00 ml/min
1/25/2022 10:30 AM	30:56	5.94 pH	17.17 °C	975.75 µS/cm	0.21 mg/L	8.73 NTU	12.4 mV	8.73 ft	160.00 ml/min
1/25/2022 10:34 AM	34:56	5.94 pH	17.17 °C	969.68 µS/cm	0.18 mg/L	5.87 NTU	9.4 mV	8.73 ft	160.00 ml/min
1/25/2022 10:38 AM	38:56	5.95 pH	17.17 °C	962.21 µS/cm	0.18 mg/L	5.16 NTU	6.8 mV	8.73 ft	160.00 ml/min
1/25/2022 10:42 AM	42:56	5.96 pH	17.24 °C	958.95 µS/cm	0.16 mg/L	4.67 NTU	4.1 mV	8.73 ft	160.00 ml/min

## Samples

Sample ID:	Description:
DGWC-12	Metals, TDS, Inorganics, Alkalinity, Radium

Created using VuSitu from In-Situ, Inc.

# Low-Flow Test Report:

Test Date / Time: 1/25/2022 10:46:02 AM

Project: Plant McDonough

Operator Name: E. Rheams

<b>Location Name: DGWC-13</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 36.70 ft</b> <b>Total Depth: 46.70 ft</b> <b>Initial Depth to Water: 34.74 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 38.26 ft</b> <b>Pump Intake From TOC: 38.26 ft</b> <b>Estimated Total Volume Pumped: 5600 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 280 ml/min</b> <b>Final Draw Down: 0.3 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/25/2022 10:46 AM	00:00	5.75 pH	15.06 °C	414.32 µS/cm	7.01 mg/L	0.28 NTU	104.2 mV	34.74 ft	280.00 ml/min
1/25/2022 10:51 AM	05:00	5.68 pH	18.26 °C	411.20 µS/cm	5.26 mg/L	1.03 NTU	85.5 mV	35.09 ft	280.00 ml/min
1/25/2022 10:56 AM	10:00	5.64 pH	18.43 °C	409.24 µS/cm	4.81 mg/L	0.84 NTU	102.6 mV	35.04 ft	280.00 ml/min
1/25/2022 11:01 AM	15:00	5.63 pH	18.59 °C	409.72 µS/cm	4.72 mg/L	0.17 NTU	80.8 mV	35.04 ft	280.00 ml/min
1/25/2022 11:06 AM	20:00	5.64 pH	18.80 °C	410.65 µS/cm	4.68 mg/L	0.19 NTU	78.3 mV	35.04 ft	280.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 1/25/2022 9:32:31 AM

Project: Plant McDonough

Operator Name: E. Rheams

<b>Location Name: DGWC-14</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 27.95 ft</b> <b>Total Depth: 37.95 ft</b> <b>Initial Depth to Water: 20.82 ft</b>	<b>Pump Type: dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 29.74 ft</b> <b>Pump Intake From TOC: 29.74 ft</b> <b>Estimated Total Volume Pumped: 3600 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 240 ml/min</b> <b>Final Draw Down: 0.12 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/25/2022 9:32 AM	00:00	6.28 pH	13.86 °C	191.05 µS/cm	6.25 mg/L	2.78 NTU	130.8 mV	20.82 ft	240.00 ml/min
1/25/2022 9:37 AM	05:00	5.71 pH	16.11 °C	166.35 µS/cm	4.89 mg/L	1.67 NTU	107.2 mV	20.94 ft	240.00 ml/min
1/25/2022 9:42 AM	10:00	5.70 pH	16.37 °C	163.37 µS/cm	4.68 mg/L	2.59 NTU	98.5 mV	20.94 ft	240.00 ml/min
1/25/2022 9:47 AM	15:00	5.69 pH	16.42 °C	162.44 µS/cm	4.61 mg/L	3.04 NTU	94.0 mV	20.94 ft	240.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 1/24/2022 2:32:02 PM

Project: Plant McDonough

Operator Name: Joe Booth

<b>Location Name: DGWC-15</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 60.83 ft</b> <b>Total Depth: 70.83 ft</b> <b>Initial Depth to Water: 40.63 ft</b>	<b>Pump Type: QED Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 66 ft</b> <b>Pump Intake From TOC: 66 ft</b> <b>Estimated Total Volume Pumped: 3840 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 160 ml/min</b> <b>Final Draw Down: 0.81 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843285</b>
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## Test Notes:

Prepurge 1.5 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/24/2022 2:32 PM	00:00	6.22 pH	19.21 °C	781.62 µS/cm	0.62 mg/L	2.94 NTU	-3.7 mV	40.63 ft	160.00 ml/min
1/24/2022 2:36 PM	04:00	6.14 pH	19.04 °C	777.18 µS/cm	0.60 mg/L	2.23 NTU	1.4 mV	41.67 ft	160.00 ml/min
1/24/2022 2:40 PM	08:00	6.11 pH	18.79 °C	780.05 µS/cm	0.61 mg/L	1.38 NTU	5.5 mV	41.44 ft	160.00 ml/min
1/24/2022 2:44 PM	12:00	6.09 pH	18.73 °C	784.67 µS/cm	0.81 mg/L	1.22 NTU	8.6 mV	41.44 ft	160.00 ml/min
1/24/2022 2:48 PM	16:00	6.08 pH	18.68 °C	787.33 µS/cm	0.79 mg/L	0.74 NTU	11.0 mV	41.44 ft	160.00 ml/min
1/24/2022 2:52 PM	20:00	6.07 pH	18.43 °C	788.34 µS/cm	0.72 mg/L	0.55 NTU	12.8 mV	41.44 ft	160.00 ml/min
1/24/2022 2:56 PM	24:00	6.06 pH	18.33 °C	792.00 µS/cm	0.69 mg/L	0.78 NTU	14.1 mV	41.44 ft	160.00 ml/min

## Samples

Sample ID:	Description:
DGWC-15	Metals, TDS, Inorganics, Alkalinity, Radium

# Low-Flow Test Report:

Test Date / Time: 1/24/2022 2:21:05 PM

Project: Plant McDonough

Operator Name: E. Rheams

<b>Location Name: DGWC 17</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.95 ft</b> <b>Total Depth: 47.95 ft</b> <b>Initial Depth to Water: 36.01 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 39.69 ft</b> <b>Pump Intake From TOC: 39.69 ft</b> <b>Estimated Total Volume Pumped: 5500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 220 ml/min</b> <b>Final Draw Down: 0.16 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/24/2022 2:21 PM	00:00	5.52 pH	19.37 °C	565.66 µS/cm	6.03 mg/L	2.96 NTU	56.3 mV	36.01 ft	220.00 ml/min
1/24/2022 2:26 PM	05:00	5.21 pH	18.72 °C	592.09 µS/cm	1.90 mg/L	5.01 NTU	56.9 mV	36.17 ft	220.00 ml/min
1/24/2022 2:31 PM	10:00	5.16 pH	18.84 °C	603.98 µS/cm	0.84 mg/L	5.94 NTU	66.8 mV	36.17 ft	220.00 ml/min
1/24/2022 2:36 PM	15:00	5.15 pH	18.70 °C	603.58 µS/cm	0.53 mg/L	9.73 NTU	62.6 mV	36.17 ft	220.00 ml/min
1/24/2022 2:41 PM	20:00	5.14 pH	18.68 °C	604.66 µS/cm	0.44 mg/L	5.65 NTU	45.0 mV	36.17 ft	220.00 ml/min
1/24/2022 2:46 PM	25:00	5.15 pH	18.65 °C	603.24 µS/cm	0.40 mg/L	4.91 NTU	41.2 mV	36.17 ft	220.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 1/25/2022 1:50:17 PM

Project: Plant McDonough

Operator Name: E. Rheams

<b>Location Name: DGWC-19</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 33.23 ft</b> <b>Total Depth: 43.23 ft</b> <b>Initial Depth to Water: 25.17 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 34.76 ft</b> <b>Pump Intake From TOC: 34.76 ft</b> <b>Estimated Total Volume Pumped: 15000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 300 ml/min</b> <b>Final Draw Down: 0.33 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/25/2022 1:50 PM	00:00	4.58 pH	21.09 °C	774.38 µS/cm	3.67 mg/L	15.80 NTU	145.7 mV	25.17 ft	300.00 ml/min
1/25/2022 1:55 PM	05:00	4.72 pH	19.22 °C	788.79 µS/cm	0.87 mg/L	47.40 NTU	376.3 mV	25.45 ft	300.00 ml/min
1/25/2022 2:00 PM	10:00	4.76 pH	19.06 °C	789.99 µS/cm	0.40 mg/L	47.10 NTU	405.4 mV	25.50 ft	300.00 ml/min
1/25/2022 2:05 PM	15:00	4.77 pH	19.10 °C	789.76 µS/cm	0.25 mg/L	26.80 NTU	295.2 mV	25.50 ft	300.00 ml/min
1/25/2022 2:10 PM	20:00	4.77 pH	19.06 °C	791.35 µS/cm	0.21 mg/L	12.70 NTU	303.9 mV	25.50 ft	300.00 ml/min
1/25/2022 2:15 PM	25:00	4.77 pH	19.06 °C	795.10 µS/cm	0.19 mg/L	13.91 NTU	436.5 mV	25.50 ft	300.00 ml/min
1/25/2022 2:20 PM	30:00	4.78 pH	19.05 °C	792.88 µS/cm	0.18 mg/L	7.12 NTU	326.7 mV	25.50 ft	300.00 ml/min
1/25/2022 2:25 PM	35:00	4.78 pH	19.02 °C	793.49 µS/cm	0.18 mg/L	10.81 NTU	337.6 mV	25.50 ft	300.00 ml/min
1/25/2022 2:30 PM	40:00	4.79 pH	18.98 °C	795.04 µS/cm	0.18 mg/L	10.41 NTU	347.1 mV	25.50 ft	300.00 ml/min
1/25/2022 2:35 PM	45:00	4.79 pH	18.97 °C	795.87 µS/cm	0.17 mg/L	7.57 NTU	358.2 mV	25.50 ft	300.00 ml/min
1/25/2022 2:40 PM	50:00	4.79 pH	18.97 °C	799.57 µS/cm	0.17 mg/L	4.10 NTU	494.0 mV	25.50 ft	300.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 1/21/2022 11:00:11 AM

Project: Plant McDonough

Operator Name: E. Rheams

<b>Location Name: DGWC-20</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 33.4 ft</b> <b>Total Depth: 43.4 ft</b> <b>Initial Depth to Water: 22.75 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 38 ft</b> <b>Pump Intake From TOC: 38 ft</b> <b>Estimated Total Volume Pumped: 4500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 300 ml/min</b> <b>Final Draw Down: 1.4 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/21/2022 11:00 AM	00:00	4.57 pH	15.89 °C	963.22 µS/cm	0.39 mg/L	4.86 NTU	210.2 mV	22.75 ft	300.00 ml/min
1/21/2022 11:05 AM	05:00	4.47 pH	16.71 °C	985.22 µS/cm	0.28 mg/L	3.74 NTU	257.3 mV	24.05 ft	300.00 ml/min
1/21/2022 11:10 AM	10:00	4.46 pH	16.98 °C	973.01 µS/cm	0.22 mg/L	2.12 NTU	285.9 mV	24.15 ft	300.00 ml/min
1/21/2022 11:15 AM	15:00	4.47 pH	17.01 °C	964.43 µS/cm	0.18 mg/L	2.04 NTU	250.0 mV	24.15 ft	300.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 1/20/2022 3:58:00 PM

Project: Plant McDonough

Operator Name: E. Rheams

<b>Location Name: DGWC-21</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 62.55 ft</b> <b>Total Depth: 72.55 ft</b> <b>Initial Depth to Water: 16.8 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 67 ft</b> <b>Pump Intake From TOC: 67 ft</b> <b>Estimated Total Volume Pumped: 3000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.26 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/20/2022 3:58 PM	00:00	5.82 pH	8.13 °C	591.11 µS/cm	2.24 mg/L	1.61 NTU	202.9 mV	16.80 ft	200.00 ml/min
1/20/2022 4:03 PM	05:00	5.77 pH	12.89 °C	662.30 µS/cm	0.43 mg/L	0.43 NTU	157.9 mV	17.05 ft	200.00 ml/min
1/20/2022 4:08 PM	10:00	5.74 pH	14.31 °C	675.69 µS/cm	0.40 mg/L	0.70 NTU	123.6 mV	17.06 ft	200.00 ml/min
1/20/2022 4:13 PM	15:00	5.73 pH	14.30 °C	676.92 µS/cm	0.27 mg/L	0.36 NTU	112.8 mV	17.06 ft	200.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 1/20/2022 12:34:49 PM

Project: Plant McDonough

Operator Name: E. Rheams

<b>Location Name: DWGC-22</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 53.45 ft</b> <b>Total Depth: 63.45 ft</b> <b>Initial Depth to Water: 20.68 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 58 ft</b> <b>Pump Intake From TOC: 58 ft</b> <b>Estimated Total Volume Pumped: 4000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.15 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/20/2022 12:34 PM	00:00	6.54 pH	10.35 °C	391.10 µS/cm	4.24 mg/L	4.34 NTU	37.9 mV	20.68 ft	200.00 ml/min
1/20/2022 12:39 PM	05:00	5.76 pH	14.89 °C	645.75 µS/cm	0.75 mg/L	5.56 NTU	94.9 mV	20.85 ft	200.00 ml/min
1/20/2022 12:44 PM	10:00	5.77 pH	15.84 °C	650.16 µS/cm	0.41 mg/L	2.65 NTU	91.9 mV	20.83 ft	200.00 ml/min
1/20/2022 12:49 PM	15:00	5.73 pH	16.06 °C	648.53 µS/cm	0.33 mg/L	1.54 NTU	74.8 mV	20.83 ft	200.00 ml/min
1/20/2022 12:54 PM	20:00	5.72 pH	15.71 °C	645.57 µS/cm	0.28 mg/L	1.11 NTU	76.2 mV	20.83 ft	200.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 1/20/2022 10:30:02 AM

Project: Plant McDonough

Operator Name: E. Rheams

<b>Location Name: DGWC-23</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 53.26 ft</b> <b>Total Depth: 63.26 ft</b> <b>Initial Depth to Water: 19.61 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 54.63 ft</b> <b>Pump Intake From TOC: 54.63 ft</b> <b>Estimated Total Volume Pumped: 4539 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 180 ml/min</b> <b>Final Draw Down: 1.8 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/20/2022 10:30 AM	00:00	6.09 pH	12.99 °C	660.21 µS/cm	2.49 mg/L	6.91 NTU	69.5 mV	19.61 ft	180.00 ml/min
1/20/2022 10:35 AM	05:00	6.02 pH	15.30 °C	673.90 µS/cm	0.44 mg/L	3.29 NTU	77.8 mV	20.41 ft	180.00 ml/min
1/20/2022 10:40 AM	10:00	6.00 pH	15.53 °C	686.09 µS/cm	0.25 mg/L	1.42 NTU	102.3 mV	20.93 ft	180.00 ml/min
1/20/2022 10:45 AM	15:00	5.97 pH	15.66 °C	672.31 µS/cm	0.21 mg/L	1.12 NTU	81.6 mV	21.38 ft	180.00 ml/min
1/20/2022 10:50 AM	20:00	5.95 pH	15.66 °C	666.62 µS/cm	0.20 mg/L	0.90 NTU	81.6 mV	21.41 ft	180.00 ml/min
1/20/2022 10:50 AM	20:13	5.95 pH	15.66 °C	669.68 µS/cm	0.20 mg/L	0.90 NTU	92.3 mV	21.41 ft	180.00 ml/min
1/20/2022 10:55 AM	25:13	5.95 pH	15.61 °C	656.99 µS/cm	0.20 mg/L	1.08 NTU	80.1 mV	21.41 ft	180.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 1/20/2022 2:12:52 PM

Project: Plant McDonough

Operator Name: E. Rheams

<b>Location Name: DGWC-42</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 42.49 ft</b> <b>Total Depth: 52.49 ft</b> <b>Initial Depth to Water: 29.69 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 47 ft</b> <b>Pump Intake From TOC: 47 ft</b> <b>Estimated Total Volume Pumped: 3000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 1.21 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/20/2022 2:12 PM	00:00	5.39 pH	12.85 °C	756.76 µS/cm	4.51 mg/L	7.16 NTU	81.4 mV	29.69 ft	200.00 ml/min
1/20/2022 2:17 PM	05:00	5.31 pH	16.85 °C	756.84 µS/cm	0.97 mg/L	5.67 NTU	99.1 mV	30.74 ft	200.00 ml/min
1/20/2022 2:22 PM	10:00	5.28 pH	17.06 °C	777.35 µS/cm	0.44 mg/L	2.86 NTU	127.7 mV	30.91 ft	200.00 ml/min
1/20/2022 2:27 PM	15:00	5.27 pH	17.18 °C	770.90 µS/cm	0.29 mg/L	2.93 NTU	96.3 mV	30.90 ft	200.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 1/21/2022 8:54:01 AM

Project: Plant McDonough

Operator Name: Joe Booth

<b>Location Name: DGWC-47</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 21.93 ft</b> <b>Total Depth: 31.93 ft</b> <b>Initial Depth to Water: 16.77 ft</b>	<b>Pump Type: QED Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 28 ft</b> <b>Pump Intake From TOC: 28 ft</b> <b>Estimated Total Volume Pumped: 3500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 175 ml/min</b> <b>Final Draw Down: 1.31 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843285</b>
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## Test Notes:

Prepurge 1 liter

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/21/2022 8:54 AM	00:00	3.71 pH	12.04 °C	419.15 µS/cm	1.27 mg/L	2.51 NTU	167.3 mV	16.77 ft	175.00 ml/min
1/21/2022 8:58 AM	04:00	3.67 pH	13.21 °C	403.81 µS/cm	0.75 mg/L	1.93 NTU	173.5 mV	17.63 ft	175.00 ml/min
1/21/2022 9:02 AM	08:00	3.67 pH	13.04 °C	408.60 µS/cm	0.67 mg/L	1.43 NTU	185.8 mV	17.75 ft	175.00 ml/min
1/21/2022 9:06 AM	12:00	3.69 pH	12.97 °C	403.47 µS/cm	0.61 mg/L	3.84 NTU	197.8 mV	17.96 ft	175.00 ml/min
1/21/2022 9:10 AM	16:00	3.70 pH	13.10 °C	406.61 µS/cm	0.54 mg/L	2.67 NTU	209.0 mV	18.03 ft	175.00 ml/min
1/21/2022 9:14 AM	20:00	3.72 pH	13.06 °C	408.32 µS/cm	0.50 mg/L	2.36 NTU	219.9 mV	18.08 ft	175.00 ml/min

## Samples

Sample ID:	Description:
DWGC-47	Metals, TDS, Inorganics, Alkalinity, Radium, extra volume



# Low-Flow Test Report:

Test Date / Time: 1/24/2022 9:44:17 AM

Project: Plant McDonough

Operator Name: Joe Booth

<b>Location Name: DWGC-48</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 22.49 ft</b> <b>Total Depth: 33.49 ft</b> <b>Initial Depth to Water: 14.02 ft</b>	<b>Pump Type: QED Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 29 ft</b> <b>Pump Intake From TOC: 29 ft</b> <b>Estimated Total Volume Pumped: 4000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 1.36 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843285</b>
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## Test Notes:

Prepurge 1.5 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/24/2022 9:44 AM	00:00	4.07 pH	17.70 °C	1,278.4 µS/cm	1.99 mg/L	1.58 NTU	106.5 mV	14.02 ft	200.00 ml/min
1/24/2022 9:48 AM	04:00	3.91 pH	17.72 °C	1,297.1 µS/cm	0.68 mg/L	1.62 NTU	140.8 mV	15.18 ft	200.00 ml/min
1/24/2022 9:52 AM	08:00	3.94 pH	17.83 °C	1,288.2 µS/cm	0.30 mg/L	1.21 NTU	213.8 mV	15.32 ft	200.00 ml/min
1/24/2022 9:56 AM	12:00	3.97 pH	17.94 °C	1,296.8 µS/cm	0.21 mg/L	1.06 NTU	286.9 mV	15.38 ft	200.00 ml/min
1/24/2022 10:00 AM	16:00	4.00 pH	17.90 °C	1,298.2 µS/cm	0.18 mg/L	1.00 NTU	305.6 mV	15.38 ft	200.00 ml/min
1/24/2022 10:04 AM	20:00	4.03 pH	17.93 °C	1,294.2 µS/cm	0.17 mg/L	0.54 NTU	303.2 mV	15.38 ft	200.00 ml/min

## Samples

Sample ID:	Description:
DWGC-48	Metals, TDS, Inorganics, Alkalinity, Radium

# Low-Flow Test Report:

Test Date / Time: 1/27/2022 9:23:34 AM

Project: Plant McDonough

Operator Name: Duane Fulton

<b>Location Name: B-56</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.9 ft</b> <b>Total Depth: 47.9 ft</b> <b>Initial Depth to Water: 27.65 ft</b>	<b>Pump Type: Bladder Pump</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 42 ft</b> <b>Estimated Total Volume Pumped: 27575 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 225 ml/min</b> <b>Final Draw Down: 0.94 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850751</b>
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## Test Notes:

## Weather Conditions:

Clear, 35 Deg.

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 2	+/- 10	+/- 0.3	
1/27/2022 9:23 AM	00:00	5.64 pH	8.78 °C	545.86 µS/cm	6.01 mg/L	49.90 NTU	190.9 mV	27.80 ft	100.00 ml/min
1/27/2022 9:28 AM	05:00	4.69 pH	12.49 °C	551.83 µS/cm	1.41 mg/L	62.50 NTU	157.5 mV	27.88 ft	80.00 ml/min
1/27/2022 9:33 AM	10:00	4.74 pH	13.37 °C	544.43 µS/cm	1.97 mg/L	57.70 NTU	169.8 mV	27.92 ft	80.00 ml/min
1/27/2022 9:38 AM	15:00	4.76 pH	13.62 °C	543.60 µS/cm	2.42 mg/L	40.30 NTU	157.8 mV	27.92 ft	80.00 ml/min
1/27/2022 9:43 AM	20:00	4.76 pH	13.88 °C	538.20 µS/cm	2.75 mg/L	20.80 NTU	122.5 mV	27.94 ft	80.00 ml/min
1/27/2022 9:48 AM	25:00	4.76 pH	13.77 °C	539.33 µS/cm	3.03 mg/L	19.60 NTU	145.4 mV	27.95 ft	80.00 ml/min
1/27/2022 9:53 AM	30:00	4.76 pH	13.77 °C	537.26 µS/cm	3.38 mg/L	26.40 NTU	144.9 mV	27.95 ft	80.00 ml/min
1/27/2022 9:58 AM	35:00	4.75 pH	14.21 °C	538.60 µS/cm	3.55 mg/L	16.70 NTU	143.7 mV	27.97 ft	80.00 ml/min
1/27/2022 10:03 AM	40:00	4.76 pH	14.40 °C	534.22 µS/cm	3.67 mg/L	15.40 NTU	114.6 mV	28.01 ft	80.00 ml/min
1/27/2022 10:08 AM	45:00	4.77 pH	14.40 °C	526.26 µS/cm	3.66 mg/L	11.06 NTU	110.8 mV	27.99 ft	80.00 ml/min
1/27/2022 10:13 AM	50:00	4.76 pH	14.04 °C	532.42 µS/cm	3.41 mg/L	11.01 NTU	131.1 mV	27.95 ft	75.00 ml/min
1/27/2022 10:18 AM	55:00	4.76 pH	13.93 °C	531.84 µS/cm	3.67 mg/L	14.14 NTU	105.9 mV	27.95 ft	75.00 ml/min
1/27/2022 10:23 AM	01:00:00	4.76 pH	14.00 °C	533.39 µS/cm	3.83 mg/L	16.01 NTU	103.9 mV	27.94 ft	75.00 ml/min

1/27/2022 10:28 AM	01:05:00	4.76 pH	14.57 °C	539.01 µS/cm	4.05 mg/L	12.70 NTU	126.6 mV	27.94 ft	75.00 ml/min
1/27/2022 10:33 AM	01:10:00	4.77 pH	14.54 °C	530.82 µS/cm	4.03 mg/L	11.20 NTU	103.1 mV	27.95 ft	75.00 ml/min
1/27/2022 10:38 AM	01:15:00	4.76 pH	14.67 °C	532.21 µS/cm	3.98 mg/L	15.92 NTU	100.9 mV	27.95 ft	75.00 ml/min
1/27/2022 10:43 AM	01:20:00	4.77 pH	14.63 °C	531.32 µS/cm	4.04 mg/L	11.50 NTU	99.4 mV	27.95 ft	75.00 ml/min
1/27/2022 10:48 AM	01:25:00	4.76 pH	14.65 °C	534.19 µS/cm	4.02 mg/L	12.00 NTU	119.5 mV	27.95 ft	75.00 ml/min
1/27/2022 10:53 AM	01:30:00	4.77 pH	14.77 °C	533.70 µS/cm	4.19 mg/L	17.00 NTU	98.3 mV	27.95 ft	75.00 ml/min
1/27/2022 10:58 AM	01:35:00	4.77 pH	14.74 °C	536.16 µS/cm	4.20 mg/L	11.91 NTU	117.2 mV	27.95 ft	75.00 ml/min
1/27/2022 11:03 AM	01:40:00	4.77 pH	14.72 °C	532.86 µS/cm	4.21 mg/L	11.95 NTU	96.0 mV	27.95 ft	75.00 ml/min
1/27/2022 11:08 AM	01:45:00	4.77 pH	14.90 °C	537.64 µS/cm	4.27 mg/L	12.02 NTU	115.1 mV	27.95 ft	75.00 ml/min
1/27/2022 11:13 AM	01:50:00	4.78 pH	16.38 °C	547.88 µS/cm	5.49 mg/L	14.20 NTU	123.5 mV	28.38 ft	250.00 ml/min
1/27/2022 11:18 AM	01:55:00	4.77 pH	16.64 °C	543.72 µS/cm	4.79 mg/L	14.10 NTU	121.2 mV	28.45 ft	250.00 ml/min
1/27/2022 11:23 AM	02:00:00	4.75 pH	16.74 °C	544.95 µS/cm	4.42 mg/L	12.28 NTU	120.2 mV	28.50 ft	225.00 ml/min
1/27/2022 11:28 AM	02:05:00	4.74 pH	16.71 °C	542.30 µS/cm	4.18 mg/L	13.17 NTU	99.9 mV	28.52 ft	225.00 ml/min
1/27/2022 11:33 AM	02:10:00	4.73 pH	16.76 °C	547.02 µS/cm	4.03 mg/L	11.92 NTU	117.4 mV	28.54 ft	225.00 ml/min
1/27/2022 11:38 AM	02:15:00	4.73 pH	16.80 °C	543.44 µS/cm	3.97 mg/L	11.05 NTU	98.2 mV	28.55 ft	225.00 ml/min
1/27/2022 11:43 AM	02:20:00	4.73 pH	16.83 °C	546.05 µS/cm	3.90 mg/L	11.56 NTU	117.5 mV	28.57 ft	225.00 ml/min
1/27/2022 11:48 AM	02:25:00	4.73 pH	16.83 °C	545.97 µS/cm	3.83 mg/L	11.00 NTU	118.4 mV	28.57 ft	225.00 ml/min
1/27/2022 11:53 AM	02:30:00	4.72 pH	16.87 °C	544.48 µS/cm	3.82 mg/L	12.40 NTU	99.1 mV	28.58 ft	225.00 ml/min
1/27/2022 11:58 AM	02:35:00	4.72 pH	16.88 °C	547.02 µS/cm	3.77 mg/L	13.10 NTU	117.9 mV	28.58 ft	225.00 ml/min
1/27/2022 12:03 PM	02:40:00	4.71 pH	16.96 °C	551.12 µS/cm	3.86 mg/L	9.22 NTU	120.5 mV	28.58 ft	225.00 ml/min
1/27/2022 12:08 PM	02:45:00	4.71 pH	17.06 °C	547.46 µS/cm	3.72 mg/L	8.28 NTU	100.9 mV	28.59 ft	225.00 ml/min
1/27/2022 12:13 PM	02:50:00	4.71 pH	17.51 °C	545.34 µS/cm	3.65 mg/L	8.11 NTU	120.2 mV	28.59 ft	225.00 ml/min
1/27/2022 12:18 PM	02:55:00	4.71 pH	17.76 °C	544.48 µS/cm	3.63 mg/L	7.82 NTU	123.8 mV	28.59 ft	225.00 ml/min
1/27/2022 12:23 PM	03:00:00	4.71 pH	17.55 °C	547.02 µS/cm	3.71 mg/L	6.44 NTU	123.7 mV	28.59 ft	225.00 ml/min
1/27/2022 12:28 PM	03:05:00	4.71 pH	17.21 °C	547.92 µS/cm	3.70 mg/L	6.31 NTU	124.4 mV	28.59 ft	225.00 ml/min
1/27/2022 12:33 PM	03:10:00	4.70 pH	17.32 °C	547.44 µS/cm	3.74 mg/L	5.32 NTU	104.9 mV	28.59 ft	225.00 ml/min
1/27/2022 12:38 PM	03:15:00	4.70 pH	17.26 °C	545.98 µS/cm	3.68 mg/L	4.96 NTU	104.4 mV	28.59 ft	225.00 ml/min

**Samples**

Sample ID:	Description:
B-56	

# Low-Flow Test Report:

Test Date / Time: 1/20/2022 9:49:42 AM

Project: Plant McDonough

Operator Name: Joe Booth

<b>Location Name: B-63</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 36.15 ft</b> <b>Total Depth: 46.15 ft</b> <b>Initial Depth to Water: 27.7 ft</b>	<b>Pump Type: QED Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 41 ft</b> <b>Pump Intake From TOC: 41 ft</b> <b>Estimated Total Volume Pumped: 19920 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 1.14 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843285</b>
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## Test Notes:

Prepurge 2 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/20/2022 9:49 AM	00:00	5.53 pH	18.46 °C	285.20 µS/cm	0.22 mg/L	22.70 NTU	85.6 mV	27.70 ft	180.00 ml/min
1/20/2022 9:53 AM	04:00	5.53 pH	18.30 °C	283.25 µS/cm	0.19 mg/L	19.70 NTU	81.8 mV	28.72 ft	180.00 ml/min
1/20/2022 9:57 AM	08:00	5.52 pH	18.27 °C	282.87 µS/cm	0.17 mg/L	18.90 NTU	78.6 mV	28.73 ft	180.00 ml/min
1/20/2022 10:01 AM	12:00	5.53 pH	18.28 °C	281.80 µS/cm	0.15 mg/L	18.60 NTU	76.0 mV	28.74 ft	180.00 ml/min
1/20/2022 10:05 AM	16:00	5.52 pH	18.26 °C	281.49 µS/cm	0.13 mg/L	17.90 NTU	73.4 mV	28.78 ft	180.00 ml/min
1/20/2022 10:09 AM	20:00	5.53 pH	18.33 °C	281.56 µS/cm	0.12 mg/L	15.70 NTU	70.4 mV	28.83 ft	180.00 ml/min
1/20/2022 10:13 AM	24:00	5.53 pH	18.28 °C	282.50 µS/cm	0.10 mg/L	16.60 NTU	68.2 mV	28.87 ft	180.00 ml/min
1/20/2022 10:17 AM	28:00	5.53 pH	18.17 °C	283.76 µS/cm	0.09 mg/L	16.30 NTU	66.5 mV	28.90 ft	180.00 ml/min
1/20/2022 10:21 AM	32:00	5.54 pH	18.11 °C	283.18 µS/cm	0.13 mg/L	16.60 NTU	66.0 mV	28.93 ft	180.00 ml/min
1/20/2022 10:25 AM	36:00	5.53 pH	18.15 °C	284.38 µS/cm	0.11 mg/L	15.90 NTU	63.0 mV	28.95 ft	180.00 ml/min
1/20/2022 10:29 AM	40:00	5.54 pH	18.15 °C	284.29 µS/cm	0.10 mg/L	18.50 NTU	61.6 mV	28.95 ft	180.00 ml/min
1/20/2022 10:33 AM	44:00	5.53 pH	17.88 °C	283.27 µS/cm	0.10 mg/L	17.60 NTU	60.6 mV	28.95 ft	180.00 ml/min
1/20/2022 10:37 AM	48:00	5.53 pH	17.88 °C	282.71 µS/cm	0.09 mg/L	18.30 NTU	59.9 mV	28.82 ft	150.00 ml/min
1/20/2022 10:41 AM	52:00	5.53 pH	17.92 °C	283.76 µS/cm	0.09 mg/L	13.10 NTU	58.8 mV	28.82 ft	150.00 ml/min

1/20/2022 10:45 AM	56:00	5.54 pH	17.95 °C	282.82 µS/cm	0.09 mg/L	13.80 NTU	57.6 mV	28.82 ft	150.00 ml/min
1/20/2022 10:49 AM	01:00:00	5.54 pH	17.95 °C	282.81 µS/cm	0.08 mg/L	13.20 NTU	56.4 mV	28.82 ft	150.00 ml/min
1/20/2022 10:53 AM	01:04:00	5.54 pH	17.92 °C	282.03 µS/cm	0.08 mg/L	12.20 NTU	55.5 mV	28.84 ft	150.00 ml/min
1/20/2022 10:57 AM	01:08:00	5.54 pH	17.92 °C	282.01 µS/cm	0.07 mg/L	12.60 NTU	54.8 mV	28.84 ft	150.00 ml/min
1/20/2022 11:01 AM	01:12:00	5.54 pH	17.84 °C	282.26 µS/cm	0.07 mg/L	13.10 NTU	53.6 mV	28.84 ft	150.00 ml/min
1/20/2022 11:05 AM	01:16:00	5.54 pH	17.84 °C	281.27 µS/cm	0.07 mg/L	13.40 NTU	52.6 mV	28.84 ft	150.00 ml/min
1/20/2022 11:09 AM	01:20:00	5.54 pH	17.79 °C	281.30 µS/cm	0.07 mg/L	13.20 NTU	51.7 mV	28.84 ft	150.00 ml/min
1/20/2022 11:13 AM	01:24:00	5.55 pH	17.84 °C	281.50 µS/cm	0.06 mg/L	12.80 NTU	50.7 mV	28.84 ft	150.00 ml/min
1/20/2022 11:17 AM	01:28:00	5.55 pH	17.79 °C	281.03 µS/cm	0.06 mg/L	12.05 NTU	49.8 mV	28.84 ft	150.00 ml/min
1/20/2022 11:21 AM	01:32:00	5.55 pH	17.82 °C	280.29 µS/cm	0.06 mg/L	11.90 NTU	49.0 mV	28.84 ft	150.00 ml/min
1/20/2022 11:25 AM	01:36:00	5.54 pH	17.80 °C	281.04 µS/cm	0.06 mg/L	10.11 NTU	48.2 mV	28.84 ft	150.00 ml/min
1/20/2022 11:29 AM	01:40:00	5.55 pH	17.79 °C	279.88 µS/cm	0.05 mg/L	8.11 NTU	47.7 mV	28.84 ft	150.00 ml/min
1/20/2022 11:33 AM	01:44:00	5.55 pH	17.70 °C	279.64 µS/cm	0.05 mg/L	8.16 NTU	46.7 mV	28.84 ft	150.00 ml/min
1/20/2022 11:37 AM	01:48:00	5.55 pH	17.73 °C	279.67 µS/cm	0.06 mg/L	9.02 NTU	46.0 mV	28.84 ft	150.00 ml/min
1/20/2022 11:41 AM	01:52:00	5.55 pH	17.80 °C	279.85 µS/cm	0.05 mg/L	6.47 NTU	45.2 mV	28.84 ft	150.00 ml/min
1/20/2022 11:45 AM	01:56:00	5.55 pH	17.75 °C	278.75 µS/cm	0.05 mg/L	6.80 NTU	44.4 mV	28.84 ft	150.00 ml/min
1/20/2022 11:49 AM	02:00:00	5.55 pH	17.79 °C	278.90 µS/cm	0.05 mg/L	4.87 NTU	43.5 mV	28.84 ft	150.00 ml/min
1/20/2022 11:53 AM	02:04:00	5.46 pH	17.66 °C	133.88 µS/cm	7.41 mg/L	4.87 NTU	64.6 mV	28.84 ft	150.00 ml/min

## Samples

Sample ID:	Description:
B-63	Metals, TDS, Inorganics, Alkalinity, Radium

# Low-Flow Test Report:

Test Date / Time: 1/25/2022 11:51:21 AM

Project: Plant McDonough

Operator Name: Joe Booth

<b>Location Name: B-66</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 47.99 ft</b> <b>Total Depth: 57.99 ft</b> <b>Initial Depth to Water: 17.6 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 53 ft</b> <b>Pump Intake From TOC: 53 ft</b> <b>Estimated Total Volume Pumped: 2880 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 180 ml/min</b> <b>Final Draw Down: 2.82 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843285</b>
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## Test Notes:

Prepurge 1 liter

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/25/2022 11:51 AM	00:00	6.27 pH	19.73 °C	1,517.4 µS/cm	0.40 mg/L	3.31 NTU	6.4 mV	17.60 ft	180.00 ml/min
1/25/2022 11:55 AM	04:00	6.31 pH	18.71 °C	1,560.0 µS/cm	0.24 mg/L	2.23 NTU	-2.9 mV	19.41 ft	180.00 ml/min
1/25/2022 11:59 AM	08:00	6.33 pH	18.59 °C	1,562.4 µS/cm	0.20 mg/L	2.44 NTU	-8.2 mV	20.20 ft	180.00 ml/min
1/25/2022 12:03 PM	12:00	6.34 pH	18.64 °C	1,559.5 µS/cm	0.17 mg/L	2.11 NTU	-11.8 mV	20.34 ft	180.00 ml/min
1/25/2022 12:07 PM	16:00	6.35 pH	18.78 °C	1,556.0 µS/cm	0.16 mg/L	2.26 NTU	-14.5 mV	20.42 ft	180.00 ml/min

## Samples

Sample ID:	Description:
B-66	Metals, TDS, Inorganics, Alkalinity, Radium

# Low-Flow Test Report:

Test Date / Time: 1/20/2022 1:27:24 PM

Project: Plant McDonough

Operator Name: Joe Booth

<b>Location Name: B-77</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 33.46 ft</b> <b>Total Depth: 43.46 ft</b> <b>Initial Depth to Water: 28.76 ft</b>	<b>Pump Type: QED Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 38 ft</b> <b>Pump Intake From TOC: 38 ft</b> <b>Estimated Total Volume Pumped: 6000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 1.25 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843285</b>
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## Test Notes:

Prepurge 1.5 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/20/2022 1:27 PM	00:00	6.21 pH	18.02 °C	395.10 µS/cm	0.26 mg/L	12.10 NTU	-39.8 mV	28.76 ft	150.00 ml/min
1/20/2022 1:31 PM	04:00	6.28 pH	17.66 °C	407.79 µS/cm	0.27 mg/L	8.40 NTU	-59.1 mV	30.01 ft	150.00 ml/min
1/20/2022 1:35 PM	08:00	6.33 pH	17.52 °C	412.53 µS/cm	0.39 mg/L	10.40 NTU	-69.9 mV	30.01 ft	150.00 ml/min
1/20/2022 1:39 PM	12:00	6.37 pH	17.39 °C	416.89 µS/cm	0.33 mg/L	12.10 NTU	-73.4 mV	30.01 ft	150.00 ml/min
1/20/2022 1:43 PM	16:00	6.41 pH	17.30 °C	421.50 µS/cm	0.32 mg/L	11.60 NTU	-75.8 mV	30.01 ft	150.00 ml/min
1/20/2022 1:47 PM	20:00	6.43 pH	17.26 °C	418.32 µS/cm	0.24 mg/L	8.11 NTU	-77.0 mV	30.01 ft	150.00 ml/min
1/20/2022 1:51 PM	24:00	6.45 pH	17.17 °C	417.43 µS/cm	0.26 mg/L	6.47 NTU	-77.3 mV	30.01 ft	150.00 ml/min
1/20/2022 1:55 PM	28:00	6.46 pH	17.13 °C	417.71 µS/cm	0.21 mg/L	5.97 NTU	-77.8 mV	30.01 ft	150.00 ml/min
1/20/2022 1:59 PM	32:00	6.46 pH	17.25 °C	419.88 µS/cm	0.20 mg/L	5.50 NTU	-78.5 mV	30.01 ft	150.00 ml/min
1/20/2022 2:03 PM	36:00	6.47 pH	17.35 °C	418.48 µS/cm	0.19 mg/L	5.12 NTU	-78.6 mV	30.01 ft	150.00 ml/min
1/20/2022 2:07 PM	40:00	6.48 pH	17.35 °C	417.83 µS/cm	0.20 mg/L	4.62 NTU	-78.5 mV	30.01 ft	150.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 1/25/2022 1:10:16 PM

Project: Plant McDonough

Operator Name: Joe Booth

<b>Location Name: B-82</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 37.65 ft</b> <b>Total Depth: 47.65 ft</b> <b>Initial Depth to Water: 12.76 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 42 ft</b> <b>Pump Intake From TOC: 42 ft</b> <b>Estimated Total Volume Pumped: 4480 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 160 ml/min</b> <b>Final Draw Down: 1.6 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843285</b>
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## Test Notes:

Prepurge 1.5 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/25/2022 1:10 PM	00:00	5.85 pH	21.31 °C	1,677.1 µS/cm	1.66 mg/L	3.94 NTU	33.5 mV	12.76 ft	160.00 ml/min
1/25/2022 1:14 PM	04:00	5.34 pH	19.13 °C	1,784.9 µS/cm	0.96 mg/L	1.71 NTU	57.1 mV	13.90 ft	160.00 ml/min
1/25/2022 1:18 PM	08:00	5.24 pH	18.88 °C	1,816.9 µS/cm	0.89 mg/L	0.81 NTU	66.2 mV	14.05 ft	160.00 ml/min
1/25/2022 1:22 PM	12:00	5.17 pH	18.94 °C	1,874.0 µS/cm	0.84 mg/L	0.87 NTU	70.9 mV	14.20 ft	160.00 ml/min
1/25/2022 1:26 PM	16:00	5.13 pH	18.93 °C	1,874.7 µS/cm	0.80 mg/L	1.37 NTU	73.5 mV	14.30 ft	160.00 ml/min
1/25/2022 1:30 PM	20:00	5.10 pH	18.91 °C	1,888.7 µS/cm	0.79 mg/L	1.22 NTU	74.7 mV	14.34 ft	160.00 ml/min
1/25/2022 1:34 PM	24:00	5.09 pH	18.94 °C	1,880.3 µS/cm	0.77 mg/L	0.70 NTU	75.4 mV	14.35 ft	160.00 ml/min
1/25/2022 1:38 PM	28:00	5.07 pH	18.86 °C	1,905.1 µS/cm	0.76 mg/L	0.85 NTU	76.0 mV	14.36 ft	160.00 ml/min

## Samples

Sample ID:	Description:
B-82	Metals, TDS, Inorganics, Alkalinity, Radium

# Low-Flow Test Report:

Test Date / Time: 1/21/2022 11:27:40 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-83</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 38.9 ft</b> <b>Total Depth: 48.9 ft</b> <b>Initial Depth to Water: 30.48 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 44 ft</b> <b>Pump Intake From TOC: 44 ft</b> <b>Estimated Total Volume Pumped: 7266 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.22 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728623</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
1/21/2022 11:27 AM	00:00	5.68 pH	9.99 °C	386.14 µS/cm	5.69 mg/L	3.56 NTU	91.2 mV	30.48 ft	200.00 ml/min
1/21/2022 11:32 AM	05:00	5.58 pH	17.11 °C	389.14 µS/cm	2.03 mg/L	2.34 NTU	114.5 mV	30.66 ft	200.00 ml/min
1/21/2022 11:37 AM	10:00	5.56 pH	17.59 °C	384.73 µS/cm	1.85 mg/L	1.51 NTU	126.6 mV	30.67 ft	200.00 ml/min
1/21/2022 11:42 AM	15:00	5.55 pH	17.83 °C	370.75 µS/cm	0.99 mg/L	1.20 NTU	137.6 mV	30.67 ft	200.00 ml/min
1/21/2022 11:47 AM	20:00	5.55 pH	17.89 °C	365.56 µS/cm	0.83 mg/L	1.17 NTU	140.5 mV	30.70 ft	200.00 ml/min
1/21/2022 11:52 AM	25:00	5.55 pH	18.00 °C	370.17 µS/cm	0.75 mg/L	1.04 NTU	144.2 mV	30.70 ft	200.00 ml/min
1/21/2022 11:54 AM	26:20	5.55 pH	18.03 °C	366.61 µS/cm	0.74 mg/L	1.04 NTU	142.9 mV	30.70 ft	200.00 ml/min
1/21/2022 11:59 AM	31:20	5.55 pH	17.90 °C	371.69 µS/cm	0.65 mg/L	1.68 NTU	178.6 mV	30.70 ft	200.00 ml/min
1/21/2022 12:04 PM	36:20	5.56 pH	18.08 °C	375.20 µS/cm	0.59 mg/L	0.97 NTU	152.0 mV	30.70 ft	200.00 ml/min

## Samples

Sample ID:	Description:
B-83	

# Low-Flow Test Report:

Test Date / Time: 1/27/2022 10:55:56 AM

Project: Plant McDonough

Operator Name: E. Rheams

<b>Location Name: B-88</b> <b>Well Diameter: 2 in</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 65.06 ft</b> <b>Total Depth: 75.06 ft</b> <b>Initial Depth to Water: 36.39 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 70 ft</b> <b>Pump Intake From TOC: 70 ft</b> <b>Estimated Total Volume Pumped: 30682 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 220 ml/min</b> <b>Final Draw Down: 0.11 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/27/2022 10:55 AM	00:00	6.16 pH	12.33 °C	816.33 µS/cm	2.67 mg/L	64.50 NTU	44.4 mV	36.39 ft	220.00 ml/min
1/27/2022 11:00 AM	05:00	5.58 pH	16.31 °C	872.40 µS/cm	0.45 mg/L	73.70 NTU	69.6 mV	36.50 ft	220.00 ml/min
1/27/2022 11:05 AM	10:00	5.55 pH	16.74 °C	888.56 µS/cm	0.39 mg/L	56.40 NTU	73.8 mV	36.54 ft	220.00 ml/min
1/27/2022 11:10 AM	15:00	5.54 pH	16.87 °C	888.70 µS/cm	0.34 mg/L	47.50 NTU	75.5 mV	36.54 ft	220.00 ml/min
1/27/2022 11:15 AM	20:00	5.54 pH	16.96 °C	887.48 µS/cm	0.29 mg/L	28.90 NTU	76.1 mV	36.54 ft	220.00 ml/min
1/27/2022 11:20 AM	25:00	5.53 pH	17.00 °C	886.46 µS/cm	0.27 mg/L	24.90 NTU	76.6 mV	36.54 ft	220.00 ml/min
1/27/2022 11:25 AM	30:00	5.53 pH	17.04 °C	888.16 µS/cm	0.23 mg/L	21.00 NTU	76.5 mV	36.54 ft	220.00 ml/min
1/27/2022 11:30 AM	35:00	5.53 pH	17.08 °C	888.12 µS/cm	0.22 mg/L	16.20 NTU	76.5 mV	36.54 ft	220.00 ml/min
1/27/2022 11:35 AM	40:00	5.52 pH	17.06 °C	886.75 µS/cm	0.20 mg/L	14.50 NTU	76.3 mV	36.54 ft	220.00 ml/min
1/27/2022 11:40 AM	45:00	5.52 pH	17.09 °C	890.32 µS/cm	0.18 mg/L	13.30 NTU	75.7 mV	36.54 ft	220.00 ml/min
1/27/2022 11:45 AM	50:00	5.52 pH	17.15 °C	890.69 µS/cm	0.18 mg/L	10.08 NTU	75.2 mV	36.54 ft	220.00 ml/min
1/27/2022 11:50 AM	55:00	5.51 pH	17.15 °C	891.50 µS/cm	0.16 mg/L	8.30 NTU	75.3 mV	36.54 ft	220.00 ml/min
1/27/2022 11:55 AM	01:00:00	5.51 pH	17.23 °C	896.33 µS/cm	0.14 mg/L	9.34 NTU	89.3 mV	36.54 ft	220.00 ml/min
1/27/2022 12:00 PM	01:05:00	5.51 pH	17.26 °C	893.53 µS/cm	0.12 mg/L	10.27 NTU	76.1 mV	36.54 ft	220.00 ml/min
1/27/2022 12:05 PM	01:10:00	5.51 pH	17.72 °C	887.19 µS/cm	0.11 mg/L		75.9 mV	36.54 ft	220.00 ml/min

1/27/2022 12:10 PM	01:14:49	5.51 pH	18.03 °C	884.20 µS/cm	0.13 mg/L		90.0 mV	36.54 ft	220.00 ml/min
1/27/2022 12:55 PM	01:59:28	5.50 pH	18.85 °C	873.01 µS/cm	0.23 mg/L	10.21 NTU	71.3 mV	36.50 ft	220.00 ml/min
1/27/2022 1:00 PM	02:04:28	5.50 pH	18.77 °C	887.60 µS/cm	0.15 mg/L	8.60 NTU	65.1 mV	36.50 ft	220.00 ml/min
1/27/2022 1:05 PM	02:09:28	5.50 pH	18.79 °C	883.82 µS/cm	0.13 mg/L	7.93 NTU	58.3 mV	36.50 ft	220.00 ml/min
1/27/2022 1:10 PM	02:14:28	5.50 pH	18.65 °C	881.82 µS/cm	0.12 mg/L	8.05 NTU	55.4 mV	36.50 ft	220.00 ml/min
1/27/2022 1:15 PM	02:19:28	5.50 pH	18.78 °C	884.11 µS/cm	0.11 mg/L	3.92 NTU	53.3 mV	36.50 ft	220.00 ml/min

## Samples

<b>Sample ID:</b>	<b>Description:</b>
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# Low-Flow Test Report:

Test Date / Time: 1/26/2022 11:33:37 AM

Project: Plant McDonough

Operator Name: Joe Booth

<b>Location Name: B-92</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 14.6 ft</b> <b>Total Depth: 24.6 ft</b> <b>Initial Depth to Water: 5.18 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 19 ft</b> <b>Pump Intake From TOC: 19 ft</b> <b>Estimated Total Volume Pumped: 3800 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 190 ml/min</b> <b>Final Draw Down: 0.14 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843285</b>
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## Test Notes:

Prepurge 2 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/26/2022 11:33 AM	00:00	4.49 pH	15.74 °C	1,824.9 µS/cm	0.21 mg/L	7.10 NTU	251.0 mV	5.18 ft	190.00 ml/min
1/26/2022 11:37 AM	04:00	4.49 pH	16.10 °C	1,671.2 µS/cm	0.16 mg/L	1.80 NTU	278.6 mV	5.32 ft	190.00 ml/min
1/26/2022 11:41 AM	08:00	4.49 pH	16.32 °C	1,685.1 µS/cm	0.13 mg/L	1.68 NTU	297.6 mV	5.32 ft	190.00 ml/min
1/26/2022 11:45 AM	12:00	4.49 pH	16.33 °C	1,689.8 µS/cm	0.12 mg/L	0.77 NTU	319.6 mV	5.32 ft	190.00 ml/min
1/26/2022 11:49 AM	16:00	4.49 pH	16.41 °C	1,691.4 µS/cm	0.12 mg/L	0.55 NTU	330.3 mV	5.32 ft	190.00 ml/min
1/26/2022 11:53 AM	20:00	4.50 pH	16.61 °C	1,683.4 µS/cm	0.11 mg/L	0.42 NTU	342.4 mV	5.32 ft	190.00 ml/min

## Samples

Sample ID:	Description:
B-92	Metals, TDS, Inorganics, Alkalinity, Radium

# Low-Flow Test Report:

Test Date / Time: 1/26/2022 10:30:44 AM

Project: Plant McDonough

Operator Name: Joe Booth

<b>Location Name: B-93</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 19 ft</b> <b>Total Depth: 29 ft</b> <b>Initial Depth to Water: 7.36 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 24 ft</b> <b>Pump Intake From TOC: 24 ft</b> <b>Estimated Total Volume Pumped: 3600 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.64 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843285</b>
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## Test Notes:

Prepurge 2 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/26/2022 10:30 AM	00:00	4.71 pH	17.71 °C	2,256.2 µS/cm	0.54 mg/L	2.88 NTU	126.8 mV	7.36 ft	200.00 ml/min
1/26/2022 10:34 AM	04:00	4.71 pH	18.20 °C	2,260.3 µS/cm	0.45 mg/L	4.00 NTU	155.3 mV	7.91 ft	200.00 ml/min
1/26/2022 10:38 AM	08:00	4.73 pH	18.24 °C	2,244.8 µS/cm	0.48 mg/L	3.72 NTU	185.8 mV	7.96 ft	200.00 ml/min
1/26/2022 10:42 AM	12:00	4.74 pH	18.33 °C	2,246.1 µS/cm	0.64 mg/L	4.60 NTU	213.2 mV	7.98 ft	200.00 ml/min
1/26/2022 10:46 AM	16:00	4.74 pH	18.41 °C	2,232.4 µS/cm	0.71 mg/L	3.80 NTU	244.6 mV	8.00 ft	200.00 ml/min
1/26/2022 10:48 AM	18:00	4.74 pH	18.24 °C	2,242.6 µS/cm	0.86 mg/L	3.80 NTU	276.7 mV	8.00 ft	200.00 ml/min

## Samples

Sample ID:	Description:
B-93	Metals, TDS, Inorganics, Alkalinity, Radium

# Low-Flow Test Report:

Test Date / Time: 1/26/2022 1:59:07 PM

Project: Plant McDonough

Operator Name: Joe Booth

<b>Location Name: B-97</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 20.71 ft</b> <b>Total Depth: 30.71 ft</b> <b>Initial Depth to Water: 5.42 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 25 ft</b> <b>Pump Intake From TOC: 25 ft</b> <b>Estimated Total Volume Pumped: 3040 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 190 ml/min</b> <b>Final Draw Down: 0.19 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843285</b>
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## Test Notes:

Prepurge 2 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/26/2022 1:59 PM	00:00	5.53 pH	17.35 °C	2,709.6 µS/cm	0.24 mg/L	1.35 NTU	171.9 mV	5.42 ft	190.00 ml/min
1/26/2022 2:03 PM	04:00	5.52 pH	17.54 °C	2,656.5 µS/cm	0.16 mg/L	0.45 NTU	198.8 mV	5.61 ft	190.00 ml/min
1/26/2022 2:07 PM	08:00	5.52 pH	17.57 °C	2,662.8 µS/cm	0.12 mg/L	0.31 NTU	222.5 mV	5.61 ft	190.00 ml/min
1/26/2022 2:11 PM	12:00	5.52 pH	17.54 °C	2,655.9 µS/cm	0.10 mg/L	0.23 NTU	244.5 mV	5.61 ft	190.00 ml/min
1/26/2022 2:15 PM	16:00	5.52 pH	17.38 °C	2,663.6 µS/cm	0.09 mg/L	0.15 NTU	262.0 mV	5.61 ft	190.00 ml/min

## Samples

Sample ID:	Description:
B-97	Metals, TDS, Inorganics, Alkalinity, Radium



# Low-Flow Test Report:

Test Date / Time: 1/26/2022 12:46:25 PM

Project: Plant McDonough

Operator Name: Joe Booth

<b>Location Name: B-98</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 9.01 ft</b> <b>Total Depth: 19.01 ft</b> <b>Initial Depth to Water: 8.26 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 14 ft</b> <b>Pump Intake From TOC: 14 ft</b> <b>Estimated Total Volume Pumped: 5320 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 190 ml/min</b> <b>Final Draw Down: 0.65 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843285</b>
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## Test Notes:

Prepurge 2 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/26/2022 12:46 PM	00:00	6.23 pH	16.81 °C	399.62 µS/cm	3.27 mg/L	29.90 NTU	159.1 mV	8.26 ft	190.00 ml/min
1/26/2022 12:50 PM	04:00	6.45 pH	17.62 °C	386.38 µS/cm	3.16 mg/L	31.30 NTU	151.9 mV	8.53 ft	190.00 ml/min
1/26/2022 12:54 PM	08:00	6.50 pH	17.77 °C	380.06 µS/cm	2.77 mg/L	20.40 NTU	147.6 mV	8.58 ft	190.00 ml/min
1/26/2022 12:58 PM	12:00	6.53 pH	17.57 °C	381.47 µS/cm	2.59 mg/L	11.61 NTU	142.5 mV	8.71 ft	190.00 ml/min
1/26/2022 1:02 PM	16:00	6.52 pH	17.97 °C	384.62 µS/cm	2.45 mg/L	8.30 NTU	139.4 mV	8.81 ft	190.00 ml/min
1/26/2022 1:06 PM	20:00	6.51 pH	17.97 °C	385.27 µS/cm	2.43 mg/L	7.60 NTU	137.2 mV	8.90 ft	190.00 ml/min
1/26/2022 1:10 PM	24:00	6.52 pH	17.80 °C	391.48 µS/cm	2.34 mg/L	4.15 NTU	134.9 mV	8.91 ft	190.00 ml/min
1/26/2022 1:14 PM	28:00	6.52 pH	17.71 °C	396.52 µS/cm	2.27 mg/L	3.94 NTU	133.1 mV	8.91 ft	190.00 ml/min

## Samples

Sample ID:	Description:
B-98	Metals, TDS, Inorganics, Alkalinity, Radium

# Low-Flow Test Report:

Test Date / Time: 1/26/2022 12:33:06 PM

Project: Plant McDonough

Operator Name: Duane Fulton

<b>Location Name: B-101D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 64.9 ft</b> <b>Total Depth: 74.9 ft</b> <b>Initial Depth to Water: 30.09 ft</b>	<b>Pump Type: Dedicated Bladder</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 69.09 ft</b> <b>Pump Intake From TOC: 69.09 ft</b> <b>Estimated Total Volume Pumped: 5500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 50 ml/min</b> <b>Final Draw Down: 2.81 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850751</b>
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## Test Notes:

## Weather Conditions:

Clear, 49 Deg.

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 2	+/- 10	+/- 0.3	
1/26/2022 12:33 PM	00:00	6.80 pH	14.51 °C	481.88 µS/cm	5.19 mg/L	11.10 NTU	77.1 mV	29.50 ft	250.00 ml/min
1/26/2022 12:38 PM	05:00	5.90 pH	16.48 °C	473.59 µS/cm	0.77 mg/L	10.50 NTU	92.7 mV	30.52 ft	100.00 ml/min
1/26/2022 12:43 PM	10:00	5.88 pH	15.08 °C	482.89 µS/cm	0.97 mg/L	14.35 NTU	114.1 mV	30.85 ft	100.00 ml/min
1/26/2022 12:48 PM	15:00	5.88 pH	15.54 °C	475.14 µS/cm	0.95 mg/L	9.22 NTU	96.4 mV	31.25 ft	75.00 ml/min
1/26/2022 12:53 PM	20:00	5.88 pH	15.31 °C	474.91 µS/cm	1.04 mg/L	7.81 NTU	95.7 mV	31.38 ft	75.00 ml/min
1/26/2022 12:58 PM	25:00	5.88 pH	15.26 °C	479.36 µS/cm	1.30 mg/L	9.76 NTU	116.1 mV	31.64 ft	50.00 ml/min
1/26/2022 1:03 PM	30:00	5.87 pH	15.44 °C	478.05 µS/cm	1.26 mg/L	7.24 NTU	97.4 mV	31.92 ft	50.00 ml/min
1/26/2022 1:08 PM	35:00	5.87 pH	15.80 °C	479.89 µS/cm	1.29 mg/L	7.00 NTU	116.9 mV	32.20 ft	50.00 ml/min
1/26/2022 1:13 PM	40:00	5.87 pH	15.67 °C	476.67 µS/cm	1.36 mg/L	7.36 NTU	97.3 mV	32.50 ft	50.00 ml/min
1/26/2022 1:18 PM	45:00	5.87 pH	15.93 °C	477.87 µS/cm	1.43 mg/L	6.47 NTU	96.0 mV	32.75 ft	50.00 ml/min
1/26/2022 1:23 PM	50:00	5.87 pH	15.93 °C	470.21 µS/cm	1.44 mg/L	6.74 NTU	95.2 mV	32.78 ft	50.00 ml/min
1/26/2022 1:28 PM	55:00	5.87 pH	15.22 °C	474.46 µS/cm	1.54 mg/L	6.73 NTU	94.1 mV	32.80 ft	50.00 ml/min
1/26/2022 1:33 PM	01:00:00	5.87 pH	15.49 °C	480.09 µS/cm	1.69 mg/L	4.95 NTU	113.1 mV	32.85 ft	50.00 ml/min

1/26/2022 1:38 PM	01:05:00	5.88 pH	15.42 °C	477.65 µS/cm	1.75 mg/L	3.95 NTU	113.2 mV	32.87 ft	50.00 ml/min
1/26/2022 1:43 PM	01:10:00	5.87 pH	15.62 °C	479.69 µS/cm	1.79 mg/L	4.50 NTU	113.7 mV	32.88 ft	50.00 ml/min
1/26/2022 1:48 PM	01:15:00	5.87 pH	15.94 °C	474.04 µS/cm	1.84 mg/L	3.50 NTU	94.2 mV	32.90 ft	50.00 ml/min

## Samples

Sample ID:	Description:
B-101D	

# Low-Flow Test Report:

Test Date / Time: 1/27/2022 3:48:27 PM

Project: Plant McDonough (5)

Operator Name: Duane Fulton

<b>Location Name: B-102D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 74.4 ft</b> <b>Total Depth: 84.4 ft</b> <b>Initial Depth to Water: 31.4 ft</b>	<b>Pump Type: Bladder Pump</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 80 ft</b> <b>Pump Intake From TOC: 80 ft</b> <b>Estimated Total Volume Pumped: 5200 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 125 ml/min</b> <b>Final Draw Down: 0.55 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850751</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 2	+/- 10	+/- 0.3	
1/27/2022 3:48 PM	00:00	7.09 pH	16.43 °C	683.85 µS/cm	4.39 mg/L	2.94 NTU	139.5 mV	31.50 ft	145.00 ml/min
1/27/2022 3:53 PM	05:00	5.49 pH	16.92 °C	670.59 µS/cm	0.89 mg/L	2.15 NTU	80.4 mV	31.92 ft	145.00 ml/min
1/27/2022 3:58 PM	10:00	5.47 pH	16.82 °C	665.68 µS/cm	1.01 mg/L	2.62 NTU	26.2 mV	31.95 ft	125.00 ml/min
1/27/2022 4:03 PM	15:00	5.44 pH	16.41 °C	676.39 µS/cm	1.16 mg/L	2.52 NTU	20.1 mV	31.94 ft	125.00 ml/min
1/27/2022 4:08 PM	20:00	5.38 pH	16.46 °C	692.00 µS/cm	0.65 mg/L	2.55 NTU	34.0 mV	31.95 ft	125.00 ml/min
1/27/2022 4:13 PM	25:00	5.35 pH	16.40 °C	694.48 µS/cm	0.53 mg/L	1.37 NTU	43.7 mV	31.92 ft	125.00 ml/min
1/27/2022 4:18 PM	30:00	5.34 pH	16.47 °C	695.28 µS/cm	0.46 mg/L	1.25 NTU	50.3 mV	31.95 ft	125.00 ml/min
1/27/2022 4:23 PM	35:00	5.33 pH	16.47 °C	693.29 µS/cm	0.39 mg/L	1.38 NTU	55.4 mV	31.95 ft	125.00 ml/min

## Samples

Sample ID:	Description:
B-102D	

# Low-Flow Test Report:

Test Date / Time: 1/24/2022 12:01:41 PM

Project: Plant McDonough

Operator Name: Joe Booth

<b>Location Name: B-104D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 50 ft</b> <b>Total Depth: 60 ft</b> <b>Initial Depth to Water: 6.13 ft</b>	<b>Pump Type: QED Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 55 ft</b> <b>Pump Intake From TOC: 55 ft</b> <b>Estimated Total Volume Pumped: 7025 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 140 ml/min</b> <b>Final Draw Down: 6.35 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843285</b>
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## Test Notes:

Prepurge 2 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/24/2022 12:01 PM	00:00	6.11 pH	18.21 °C	1,884.7 µS/cm	0.77 mg/L	28.50 NTU	37.4 mV	6.13 ft	140.00 ml/min
1/24/2022 12:05 PM	04:00	6.21 pH	17.70 °C	1,931.6 µS/cm	0.48 mg/L	17.40 NTU	15.8 mV	8.20 ft	140.00 ml/min
1/24/2022 12:09 PM	08:00	6.27 pH	17.59 °C	1,938.7 µS/cm	0.38 mg/L	14.60 NTU	2.9 mV	8.84 ft	140.00 ml/min
1/24/2022 12:13 PM	12:00	6.32 pH	17.66 °C	1,945.5 µS/cm	0.34 mg/L	13.20 NTU	-11.5 mV	9.47 ft	140.00 ml/min
1/24/2022 12:17 PM	16:00	6.38 pH	17.71 °C	1,940.9 µS/cm	0.31 mg/L	11.80 NTU	-26.4 mV	10.08 ft	140.00 ml/min
1/24/2022 12:21 PM	20:00	6.40 pH	17.75 °C	1,936.2 µS/cm	0.27 mg/L	9.40 NTU	-38.4 mV	10.44 ft	140.00 ml/min
1/24/2022 12:25 PM	24:00	6.43 pH	17.88 °C	1,934.6 µS/cm	0.26 mg/L	6.70 NTU	-44.1 mV	10.98 ft	140.00 ml/min
1/24/2022 12:29 PM	28:00	6.46 pH	17.90 °C	1,928.5 µS/cm	0.23 mg/L	5.61 NTU	-47.0 mV	11.39 ft	140.00 ml/min
1/24/2022 12:33 PM	32:00	6.48 pH	18.06 °C	1,928.5 µS/cm	0.22 mg/L	5.32 NTU	-50.7 mV	11.75 ft	140.00 ml/min
1/24/2022 12:37 PM	36:00	6.49 pH	18.15 °C	1,927.1 µS/cm	0.20 mg/L	6.33 NTU	-55.3 mV	12.03 ft	140.00 ml/min
1/24/2022 12:41 PM	40:00	6.50 pH	18.20 °C	1,925.6 µS/cm	0.20 mg/L	5.13 NTU	-59.2 mV	12.19 ft	140.00 ml/min
1/24/2022 12:43 PM	42:11	6.49 pH	18.33 °C	1,898.8 µS/cm	0.20 mg/L	5.13 NTU	-60.4 mV	12.27 ft	140.00 ml/min
1/24/2022 12:47 PM	46:11	6.50 pH	18.35 °C	1,919.8 µS/cm	0.19 mg/L	4.29 NTU	-63.1 mV	12.39 ft	140.00 ml/min
1/24/2022 12:51 PM	50:11	6.48 pH	18.42 °C	1,921.5 µS/cm	0.18 mg/L	3.49 NTU	-63.8 mV	12.48 ft	140.00 ml/min

**Samples**

Sample ID:	Description:
B-104D	Metals, TDS, Inorganics, Alkalinity, Radium

# Low-Flow Test Report:

Test Date / Time: 1/25/2022 1:48:19 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-106D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 69.4 ft</b> <b>Total Depth: 79.4 ft</b> <b>Initial Depth to Water: 39.92 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 74 ft</b> <b>Pump Intake From TOC: 74 ft</b> <b>Estimated Total Volume Pumped: 9000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.38 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728623</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
1/25/2022 1:48 PM	00:00	6.60 pH	22.56 °C	409.40 µS/cm	2.57 mg/L	6.13 NTU	-73.1 mV	39.92 ft	200.00 ml/min
1/25/2022 1:53 PM	05:00	5.93 pH	18.74 °C	432.61 µS/cm	0.96 mg/L	2.61 NTU	-5.3 mV	40.12 ft	200.00 ml/min
1/25/2022 1:58 PM	10:00	5.85 pH	18.44 °C	436.63 µS/cm	1.25 mg/L	2.23 NTU	10.3 mV	40.35 ft	200.00 ml/min
1/25/2022 2:03 PM	15:00	5.85 pH	18.60 °C	436.11 µS/cm	1.67 mg/L	1.43 NTU	22.2 mV	40.30 ft	200.00 ml/min
1/25/2022 2:08 PM	20:00	5.85 pH	18.51 °C	437.51 µS/cm	1.44 mg/L	1.51 NTU	29.8 mV	40.30 ft	200.00 ml/min
1/25/2022 2:13 PM	25:00	5.85 pH	18.33 °C	438.41 µS/cm	1.19 mg/L	1.76 NTU	32.8 mV	40.30 ft	200.00 ml/min
1/25/2022 2:18 PM	30:00	5.84 pH	18.24 °C	438.87 µS/cm	1.03 mg/L	1.96 NTU	33.1 mV	40.30 ft	200.00 ml/min
1/25/2022 2:23 PM	35:00	5.84 pH	18.12 °C	439.88 µS/cm	0.77 mg/L	1.26 NTU	36.4 mV	40.30 ft	200.00 ml/min
1/25/2022 2:28 PM	40:00	5.84 pH	17.99 °C	440.21 µS/cm	0.64 mg/L	1.16 NTU	38.7 mV	40.30 ft	200.00 ml/min
1/25/2022 2:33 PM	45:00	5.84 pH	18.03 °C	439.97 µS/cm	0.60 mg/L	0.99 NTU	41.0 mV	40.30 ft	200.00 ml/min

## Samples

Sample ID:	Description:
B-106D	





# Low-Flow Test Report:

Test Date / Time: 1/24/2022 9:34:59 AM

Project: Plant McDonough

Operator Name: E. Rheams

<b>Location Name: B-107D</b> <b>Well Diameter: 2 in</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 75.5 ft</b> <b>Total Depth: 85.5 ft</b> <b>Initial Depth to Water: 22.67 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 80 ft</b> <b>Pump Intake From TOC: 80 ft</b> <b>Estimated Total Volume Pumped: 4313 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.08 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/24/2022 9:34 AM	00:00	7.05 pH	4.24 °C	616.43 µS/cm	8.96 mg/L	1.18 NTU	121.4 mV	22.67 ft	200.00 ml/min
1/24/2022 9:36 AM	01:34	6.14 pH	9.01 °C	688.70 µS/cm	1.80 mg/L	1.18 NTU	88.6 mV	22.67 ft	200.00 ml/min
1/24/2022 9:41 AM	06:34	6.02 pH	14.69 °C	711.01 µS/cm	0.48 mg/L	0.66 NTU	29.7 mV	22.75 ft	200.00 ml/min
1/24/2022 9:46 AM	11:34	6.03 pH	15.74 °C	721.52 µS/cm	0.36 mg/L	0.57 NTU	16.2 mV	22.75 ft	200.00 ml/min
1/24/2022 9:51 AM	16:34	6.04 pH	16.34 °C	719.60 µS/cm	0.30 mg/L	0.70 NTU	6.9 mV	22.75 ft	200.00 ml/min
1/24/2022 9:56 AM	21:34	6.05 pH	16.82 °C	714.01 µS/cm	0.26 mg/L	0.50 NTU	-2.9 mV	22.75 ft	200.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 1/24/2022 12:56:02 PM

Project: Plant McDonough

Operator Name: E. Rheams

<b>Location Name: B-108D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 69 ft</b> <b>Total Depth: 79 ft</b> <b>Initial Depth to Water: 21.29 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 74 ft</b> <b>Pump Intake From TOC: 74 ft</b> <b>Estimated Total Volume Pumped: 3000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.36 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 5	
1/24/2022 12:56 PM	00:00	6.22 pH	16.81 °C	744.26 µS/cm	3.81 mg/L	2.62 NTU	-36.1 mV	21.29 ft	200.00 ml/min
1/24/2022 1:01 PM	05:00	6.05 pH	18.53 °C	749.70 µS/cm	0.47 mg/L	1.20 NTU	-27.5 mV	21.65 ft	200.00 ml/min
1/24/2022 1:06 PM	10:00	6.02 pH	18.88 °C	744.73 µS/cm	0.40 mg/L	0.83 NTU	-38.8 mV	21.65 ft	200.00 ml/min
1/24/2022 1:11 PM	15:00	5.99 pH	19.05 °C	744.83 µS/cm	0.50 mg/L	0.36 NTU	-39.6 mV	21.65 ft	200.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 1/20/2022 12:08:54 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-109D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 92.12 ft</b> <b>Total Depth: 102.12 ft</b> <b>Initial Depth to Water: 38.62 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 97 ft</b> <b>Pump Intake From TOC: 97 ft</b> <b>Estimated Total Volume Pumped: 4718 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 3.69 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728623</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
1/20/2022 12:08 PM	00:00	6.98 pH	8.08 °C	313.35 µS/cm	6.07 mg/L	6.27 NTU	-145.3 mV	38.62 ft	100.00 ml/min
1/20/2022 12:13 PM	05:00	6.49 pH	14.40 °C	435.10 µS/cm	0.96 mg/L	1.52 NTU	-105.4 mV	39.30 ft	100.00 ml/min
1/20/2022 12:18 PM	10:00	6.48 pH	15.17 °C	434.97 µS/cm	0.69 mg/L	1.15 NTU	-94.7 mV	40.02 ft	100.00 ml/min
1/20/2022 12:23 PM	15:00	6.48 pH	15.30 °C	432.56 µS/cm	0.63 mg/L	1.11 NTU	-87.6 mV	40.32 ft	100.00 ml/min
1/20/2022 12:26 PM	17:11	6.47 pH	15.26 °C	432.68 µS/cm	0.58 mg/L	1.59 NTU	-87.1 mV	40.59 ft	100.00 ml/min
1/20/2022 12:31 PM	22:11	6.47 pH	15.62 °C	431.81 µS/cm	0.47 mg/L	1.19 NTU	-113.7 mV	41.12 ft	100.00 ml/min
1/20/2022 12:36 PM	27:11	6.48 pH	15.52 °C	427.33 µS/cm	0.37 mg/L	1.35 NTU	-114.5 mV	41.44 ft	100.00 ml/min
1/20/2022 12:41 PM	32:11	6.47 pH	15.48 °C	429.20 µS/cm	0.35 mg/L	1.46 NTU	-79.5 mV	41.78 ft	100.00 ml/min
1/20/2022 12:46 PM	37:11	6.47 pH	15.48 °C	430.94 µS/cm	0.33 mg/L	1.30 NTU	-77.5 mV	42.06 ft	100.00 ml/min
1/20/2022 12:51 PM	42:11	6.46 pH	15.54 °C	432.96 µS/cm	0.30 mg/L	1.17 NTU	-74.7 mV	42.20 ft	100.00 ml/min
1/20/2022 12:56 PM	47:11	6.43 pH	15.35 °C	435.76 µS/cm	0.28 mg/L	1.17 NTU	-71.7 mV	42.31 ft	100.00 ml/min

## Samples

Sample ID:	Description:
B-109D	



# Low-Flow Test Report:

Test Date / Time: 1/24/2022 11:31:15 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-111D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 74.2 ft</b> <b>Total Depth: 84.2 ft</b> <b>Initial Depth to Water: 10.6 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 79 ft</b> <b>Pump Intake From TOC: 79 ft</b> <b>Estimated Total Volume Pumped: 7500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 300 ml/min</b> <b>Final Draw Down: 1.98 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728623</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
1/24/2022 11:31 AM	00:00	6.70 pH	17.66 °C	956.87 µS/cm	0.94 mg/L	0.99 NTU	-43.3 mV	10.60 ft	300.00 ml/min
1/24/2022 11:36 AM	05:00	6.96 pH	16.93 °C	982.59 µS/cm	0.23 mg/L	1.27 NTU	-105.9 mV	11.80 ft	300.00 ml/min
1/24/2022 11:41 AM	10:00	7.03 pH	16.80 °C	981.25 µS/cm	0.20 mg/L	1.00 NTU	-130.5 mV	12.07 ft	300.00 ml/min
1/24/2022 11:46 AM	15:00	7.07 pH	16.87 °C	978.33 µS/cm	0.18 mg/L	0.82 NTU	-120.7 mV	12.30 ft	300.00 ml/min
1/24/2022 11:51 AM	20:00	7.09 pH	16.88 °C	977.07 µS/cm	0.17 mg/L	1.15 NTU	-124.7 mV	12.45 ft	300.00 ml/min
1/24/2022 11:56 AM	25:00	7.11 pH	16.87 °C	972.44 µS/cm	0.20 mg/L	0.95 NTU	-147.2 mV	12.58 ft	300.00 ml/min

## Samples

Sample ID:	Description:
B-111D	

# Low-Flow Test Report:

Test Date / Time: 1/20/2022 3:51:43 PM

Project: Plant McDonough

Operator Name: Joe Booth

<b>Location Name: B-115D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 70 ft</b> <b>Total Depth: 80 ft</b> <b>Initial Depth to Water: 20.69 ft</b>	<b>Pump Type: QED Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 75 ft</b> <b>Pump Intake From TOC: 75 ft</b> <b>Estimated Total Volume Pumped: 6933 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 2.07 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843285</b>
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## Test Notes:

Prepurge 1.5 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	
1/20/2022 3:51 PM	00:00	6.85 pH	15.81 °C	1,788.0 µS/cm	0.69 mg/L	19.60 NTU	-65.8 mV	20.69 ft	200.00 ml/min
1/20/2022 3:55 PM	04:00	6.68 pH	16.50 °C	1,417.5 µS/cm	0.41 mg/L	11.96 NTU	-48.6 mV	21.97 ft	200.00 ml/min
1/20/2022 3:59 PM	08:00	6.54 pH	16.50 °C	1,273.0 µS/cm	0.32 mg/L	4.77 NTU	-33.8 mV	22.23 ft	200.00 ml/min
1/20/2022 4:03 PM	12:00	6.43 pH	16.72 °C	1,190.5 µS/cm	0.28 mg/L	3.44 NTU	-22.7 mV	22.41 ft	200.00 ml/min
1/20/2022 4:07 PM	16:00	6.28 pH	16.99 °C	1,076.5 µS/cm	0.26 mg/L	4.02 NTU	-10.9 mV	22.53 ft	200.00 ml/min
1/20/2022 4:11 PM	20:00	6.10 pH	16.99 °C	978.62 µS/cm	0.23 mg/L	4.46 NTU	4.7 mV	22.63 ft	200.00 ml/min
1/20/2022 4:12 PM	20:21	6.08 pH	16.99 °C	978.63 µS/cm	0.23 mg/L	4.46 NTU	6.3 mV	22.63 ft	200.00 ml/min
1/20/2022 4:16 PM	24:21	5.96 pH	17.02 °C	929.54 µS/cm	0.22 mg/L	4.31 NTU	15.5 mV	22.69 ft	200.00 ml/min
1/20/2022 4:16 PM	24:49	5.94 pH	16.99 °C	923.18 µS/cm	0.22 mg/L	4.31 NTU	16.4 mV	22.69 ft	200.00 ml/min
1/20/2022 4:18 PM	26:40	5.88 pH	16.95 °C	908.72 µS/cm	0.21 mg/L	3.74 NTU	19.1 mV	22.73 ft	200.00 ml/min
1/20/2022 4:22 PM	30:40	5.81 pH	17.12 °C	880.77 µS/cm	0.20 mg/L	4.91 NTU	22.8 mV	22.73 ft	200.00 ml/min
1/20/2022 4:26 PM	34:40	5.76 pH	16.99 °C	848.81 µS/cm	0.19 mg/L	3.77 NTU	26.1 mV	22.76 ft	200.00 ml/min

## Samples

Sample ID:	Description:
B-115D	Metals, TDS, Inorganics, Alkalinity, Radium

Created using VuSitu from In-Situ, Inc.

# Low-Flow Test Report:

Test Date / Time: 1/20/2022 3:17:56 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-120D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 62.08 ft</b> <b>Total Depth: 72.08 ft</b> <b>Initial Depth to Water: 35 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 67 ft</b> <b>Pump Intake From TOC: 67 ft</b> <b>Estimated Total Volume Pumped: 6250 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 0 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728623</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
1/20/2022 3:17 PM	00:00	6.07 pH	6.78 °C	561.42 µS/cm	10.37 mg/L	5.76 NTU	-23.9 mV	35.00 ft	250.00 ml/min
1/20/2022 3:22 PM	05:00	5.31 pH	14.58 °C	1,136.6 µS/cm	0.95 mg/L	2.78 NTU	48.6 mV	35.00 ft	250.00 ml/min
1/20/2022 3:27 PM	10:00	5.29 pH	15.44 °C	1,127.1 µS/cm	0.96 mg/L	2.24 NTU	25.1 mV	35.00 ft	250.00 ml/min
1/20/2022 3:32 PM	15:00	5.28 pH	15.75 °C	1,125.5 µS/cm	1.07 mg/L	1.97 NTU	-6.0 mV	35.00 ft	250.00 ml/min
1/20/2022 3:37 PM	20:00	5.27 pH	15.98 °C	1,123.9 µS/cm	1.21 mg/L	1.75 NTU	-11.1 mV	35.00 ft	250.00 ml/min
1/20/2022 3:42 PM	25:00	5.28 pH	16.02 °C	1,117.6 µS/cm	1.22 mg/L	2.13 NTU	-33.5 mV	35.00 ft	250.00 ml/min

## Samples

Sample ID:	Description:
B-120D	



# Low-Flow Test Report:

Test Date / Time: 1/26/2022 10:41:28 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-90</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 23.4 ft</b> <b>Total Depth: 33.4 ft</b> <b>Initial Depth to Water: 1.65 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 28ft</b> <b>Pump Intake From TOC: 28 ft</b> <b>Estimated Total Volume Pumped: 6000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 300 ml/min</b> <b>Final Draw Down: 1.01 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850767</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
1/26/2022 10:41 AM	00:00	5.39 pH	15.61 °C	921.73 µS/cm	0.38 mg/L	1.95 NTU	133.6 mV	1.65 ft	300.00 ml/min
1/26/2022 10:46 AM	05:00	5.37 pH	16.44 °C	871.40 µS/cm	0.24 mg/L	1.62 NTU	144.7 mV	2.62 ft	300.00 ml/min
1/26/2022 10:51 AM	10:00	5.37 pH	16.71 °C	864.76 µS/cm	0.20 mg/L	1.27 NTU	90.3 mV	2.66 ft	300.00 ml/min
1/26/2022 10:56 AM	15:00	5.38 pH	16.75 °C	850.40 µS/cm	0.21 mg/L	0.61 NTU	77.8 mV	2.66 ft	300.00 ml/min
1/26/2022 11:01 AM	20:00	5.45 pH	16.94 °C	825.91 µS/cm	0.34 mg/L	0.84 NTU	97.8 mV	2.66 ft	300.00 ml/min

## Samples

Sample ID:	Description:
B-90	

# Low-Flow Test Report:

Test Date / Time: 1/26/2022 11:39:55 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-91</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 24.6 ft</b> <b>Total Depth: 34.6 ft</b> <b>Initial Depth to Water: 3.5 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 29 ft</b> <b>Pump Intake From TOC: 29 ft</b> <b>Estimated Total Volume Pumped: 6000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 300 ml/min</b> <b>Final Draw Down: 0.5 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850767</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
1/26/2022 11:39 AM	00:00	5.31 pH	18.97 °C	888.34 µS/cm	0.27 mg/L	1.00 NTU	157.8 mV	3.50 ft	300.00 ml/min
1/26/2022 11:44 AM	05:00	5.31 pH	17.73 °C	907.91 µS/cm	0.13 mg/L	1.03 NTU	120.3 mV	3.95 ft	300.00 ml/min
1/26/2022 11:49 AM	10:00	5.30 pH	17.89 °C	904.88 µS/cm	0.09 mg/L	0.75 NTU	66.6 mV	4.00 ft	300.00 ml/min
1/26/2022 11:54 AM	15:00	5.29 pH	17.86 °C	905.22 µS/cm	0.08 mg/L	0.51 NTU	54.6 mV	4.00 ft	300.00 ml/min
1/26/2022 11:59 AM	20:00	5.29 pH	17.90 °C	902.58 µS/cm	0.07 mg/L	0.79 NTU	49.8 mV	4.00 ft	300.00 ml/min

## Samples

Sample ID:	Description:
B-91	

# Low-Flow Test Report:

Test Date / Time: 1/26/2022 12:43:37 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-95</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 25.16 ft</b> <b>Total Depth: 35.16 ft</b> <b>Initial Depth to Water: 1.95 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 30 ft</b> <b>Pump Intake From TOC: 30 ft</b> <b>Estimated Total Volume Pumped: 6000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 300 ml/min</b> <b>Final Draw Down: 1.25 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850767</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
1/26/2022 12:43 PM	00:00	5.38 pH	19.76 °C	576.92 µS/cm	0.49 mg/L	4.80 NTU	128.0 mV	1.95 ft	300.00 ml/min
1/26/2022 12:48 PM	05:00	5.31 pH	18.28 °C	599.36 µS/cm	0.14 mg/L	3.19 NTU	72.0 mV	3.00 ft	300.00 ml/min
1/26/2022 12:53 PM	10:00	5.31 pH	17.99 °C	599.65 µS/cm	0.11 mg/L	3.93 NTU	53.6 mV	3.15 ft	300.00 ml/min
1/26/2022 12:58 PM	15:00	5.31 pH	18.10 °C	588.96 µS/cm	0.09 mg/L	4.13 NTU	48.3 mV	3.20 ft	300.00 ml/min
1/26/2022 1:03 PM	20:00	5.33 pH	18.17 °C	592.65 µS/cm	0.09 mg/L	3.12 NTU	44.5 mV	3.20 ft	300.00 ml/min

## Samples

Sample ID:	Description:
B-95	

# Low-Flow Test Report:

Test Date / Time: 1/26/2022 1:37:08 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-96</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 22.33 ft</b> <b>Total Depth: 32.33 ft</b> <b>Initial Depth to Water: 5 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 27 ft</b> <b>Pump Intake From TOC: 27 ft</b> <b>Estimated Total Volume Pumped: 6000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 300 ml/min</b> <b>Final Draw Down: 0.9 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850767</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
1/26/2022 1:37 PM	00:00	5.03 pH	19.15 °C	1,007.4 µS/cm	0.31 mg/L	1.18 NTU	352.5 mV	5.00 ft	300.00 ml/min
1/26/2022 1:42 PM	05:00	5.02 pH	18.45 °C	1,012.4 µS/cm	0.16 mg/L	0.96 NTU	522.0 mV	5.90 ft	300.00 ml/min
1/26/2022 1:47 PM	10:00	5.02 pH	18.21 °C	1,018.8 µS/cm	0.13 mg/L	0.68 NTU	417.3 mV	5.90 ft	300.00 ml/min
1/26/2022 1:52 PM	15:00	5.02 pH	18.08 °C	1,016.7 µS/cm	0.10 mg/L	0.53 NTU	417.9 mV	5.90 ft	300.00 ml/min
1/26/2022 1:57 PM	20:00	5.01 pH	18.14 °C	1,017.8 µS/cm	0.09 mg/L	0.56 NTU	416.3 mV	5.90 ft	300.00 ml/min

## Samples

Sample ID:	Description:
B-96	

# Low-Flow Test Report:

Test Date / Time: 1/26/2022 2:41:52 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-99</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 5 ft</b> <b>Top of Screen: 6.93 ft</b> <b>Total Depth: 11.93 ft</b> <b>Initial Depth to Water: 3.1 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 9 ft</b> <b>Pump Intake From TOC: 9 ft</b> <b>Estimated Total Volume Pumped: 24000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 0.31 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850767</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
1/26/2022 2:41 PM	00:00	5.64 pH	16.74 °C	784.47 µS/cm	0.30 mg/L	1,467.0 NTU	125.5 mV	3.10 ft	300.00 ml/min
1/26/2022 2:46 PM	05:00	5.64 pH	15.75 °C	785.66 µS/cm	0.19 mg/L	150.00 NTU	109.0 mV	3.80 ft	300.00 ml/min
1/26/2022 2:51 PM	10:00	5.64 pH	15.75 °C	781.00 µS/cm	0.19 mg/L	35.90 NTU	125.1 mV	3.83 ft	300.00 ml/min
1/26/2022 2:56 PM	15:00	5.65 pH	15.84 °C	780.98 µS/cm	0.10 mg/L	21.30 NTU	88.5 mV	3.83 ft	300.00 ml/min
1/26/2022 3:01 PM	20:00	5.64 pH	15.91 °C	778.68 µS/cm	0.08 mg/L	14.70 NTU	83.4 mV	3.83 ft	300.00 ml/min
1/26/2022 3:06 PM	25:00	5.66 pH	15.90 °C	778.73 µS/cm	0.08 mg/L	13.20 NTU	74.1 mV	3.85 ft	300.00 ml/min
1/26/2022 3:11 PM	30:00	5.65 pH	15.93 °C	778.66 µS/cm	0.07 mg/L	12.35 NTU	67.4 mV	3.85 ft	300.00 ml/min
1/26/2022 3:16 PM	35:00	5.72 pH	15.98 °C	777.52 µS/cm	0.07 mg/L	8.82 NTU	61.0 mV	3.85 ft	300.00 ml/min
1/26/2022 3:21 PM	40:00	5.66 pH	15.97 °C	776.42 µS/cm	0.07 mg/L	7.25 NTU	60.4 mV	3.85 ft	300.00 ml/min
1/26/2022 3:26 PM	45:00	5.66 pH	16.07 °C	777.35 µS/cm	0.07 mg/L	7.01 NTU	52.6 mV	3.85 ft	300.00 ml/min
1/26/2022 3:31 PM	50:00	5.65 pH	16.02 °C	773.29 µS/cm	0.07 mg/L	6.76 NTU	58.8 mV	3.85 ft	300.00 ml/min
1/26/2022 3:36 PM	55:00	5.67 pH	16.11 °C	777.10 µS/cm	0.06 mg/L	11.50 NTU	46.0 mV	3.85 ft	300.00 ml/min
1/26/2022 3:41 PM	01:00:00	5.67 pH	15.88 °C	765.79 µS/cm	0.11 mg/L	26.30 NTU	58.2 mV	3.50 ft	100.00 ml/min
1/26/2022 3:46 PM	01:05:00	5.69 pH	15.47 °C	776.35 µS/cm	0.13 mg/L	13.40 NTU	46.6 mV	3.44 ft	100.00 ml/min
1/26/2022 3:51 PM	01:10:00	5.68 pH	15.32 °C	776.10 µS/cm	0.14 mg/L	12.95 NTU	54.3 mV	3.41 ft	100.00 ml/min

1/26/2022 3:56 PM	01:15:00	5.68 pH	15.29 °C	777.72 µS/cm	0.14 mg/L	12.00 NTU	62.7 mV	3.41 ft	100.00 ml/min
1/26/2022 4:01 PM	01:20:00	5.67 pH	15.32 °C	776.53 µS/cm	0.15 mg/L	7.24 NTU	68.0 mV	3.41 ft	100.00 ml/min
1/26/2022 4:06 PM	01:25:00	5.35 pH	15.26 °C	774.66 µS/cm	0.15 mg/L	8.88 NTU	104.9 mV	3.41 ft	100.00 ml/min
1/26/2022 4:11 PM	01:30:00	5.67 pH	15.24 °C	776.81 µS/cm	0.15 mg/L	4.92 NTU	80.0 mV	3.41 ft	100.00 ml/min
1/26/2022 4:16 PM	01:35:00	5.66 pH	15.14 °C	774.28 µS/cm	0.15 mg/L	4.31 NTU	86.7 mV	3.41 ft	100.00 ml/min
1/26/2022 4:21 PM	01:40:00	5.21 pH	15.05 °C	776.76 µS/cm	0.15 mg/L	8.23 NTU	86.9 mV	3.41 ft	100.00 ml/min
1/26/2022 4:26 PM	01:45:00	5.68 pH	14.99 °C	778.68 µS/cm	0.15 mg/L	4.38 NTU	84.5 mV	3.41 ft	100.00 ml/min
1/26/2022 4:31 PM	01:50:00	5.67 pH	14.94 °C	776.96 µS/cm	0.15 mg/L	3.89 NTU	86.8 mV	3.41 ft	100.00 ml/min
1/26/2022 4:36 PM	01:55:00	5.67 pH	14.85 °C	776.40 µS/cm	0.15 mg/L	3.51 NTU	118.7 mV	3.41 ft	100.00 ml/min

## Samples

Sample ID:	Description:
B-99	

# Low-Flow Test Report:

Test Date / Time: 1/19/2022 3:19:48 PM

Project: Plant McDonough

Operator Name: Joe Booth

<b>Location Name: B-116D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 82.45 ft</b> <b>Total Depth: 92.45 ft</b> <b>Initial Depth to Water: 42.36 ft</b>	<b>Pump Type: QED Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 88 ft</b> <b>Pump Intake From TOC: 88 ft</b> <b>Estimated Total Volume Pumped: 6240 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 130 ml/min</b> <b>Final Draw Down: 0.24 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843285</b>
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## Test Notes:

Prepurge 1.5 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.3	+/- 10	+/- 1000 %	+/- 0.3	
1/19/2022 3:19 PM	00:00	6.03 pH	18.78 °C	120.49 µS/cm	4.51 mg/L	41.20 NTU	42.6 mV	42.36 ft	130.00 ml/min
1/19/2022 3:23 PM	04:00	6.01 pH	18.06 °C	120.40 µS/cm	4.65 mg/L	19.40 NTU	45.7 mV	42.59 ft	130.00 ml/min
1/19/2022 3:27 PM	08:00	6.02 pH	18.33 °C	122.34 µS/cm	4.63 mg/L	11.88 NTU	47.6 mV	42.60 ft	130.00 ml/min
1/19/2022 3:31 PM	12:00	6.02 pH	18.51 °C	122.35 µS/cm	4.62 mg/L	9.65 NTU	49.3 mV	42.60 ft	130.00 ml/min
1/19/2022 3:35 PM	16:00	6.03 pH	18.11 °C	122.86 µS/cm	4.64 mg/L	9.07 NTU	50.8 mV	42.60 ft	130.00 ml/min
1/19/2022 3:39 PM	20:00	6.03 pH	17.70 °C	123.63 µS/cm	4.66 mg/L	8.69 NTU	52.4 mV	42.60 ft	130.00 ml/min
1/19/2022 3:43 PM	24:00	6.03 pH	17.55 °C	124.06 µS/cm	4.67 mg/L	7.95 NTU	53.6 mV	42.60 ft	130.00 ml/min
1/19/2022 3:47 PM	28:00	6.03 pH	17.70 °C	124.19 µS/cm	4.63 mg/L	7.44 NTU	54.5 mV	42.60 ft	130.00 ml/min
1/19/2022 3:51 PM	32:00	6.04 pH	17.70 °C	124.33 µS/cm	4.62 mg/L	6.99 NTU	55.2 mV	42.60 ft	130.00 ml/min
1/19/2022 3:55 PM	36:00	6.04 pH	17.44 °C	124.73 µS/cm	4.62 mg/L	6.46 NTU	56.3 mV	42.60 ft	130.00 ml/min
1/19/2022 3:59 PM	40:00	6.04 pH	17.36 °C	125.04 µS/cm	4.61 mg/L	5.78 NTU	57.2 mV	42.60 ft	130.00 ml/min
1/19/2022 4:03 PM	44:00	6.04 pH	17.35 °C	125.05 µS/cm	4.60 mg/L	4.80 NTU	57.9 mV	42.60 ft	130.00 ml/min
1/19/2022 4:07 PM	48:00	6.04 pH	17.23 °C	125.22 µS/cm	4.61 mg/L	2.81 NTU	58.5 mV	42.60 ft	130.00 ml/min

**Samples**

Sample ID:	Description:
B-116D	Metals, TDS, Inorganics, Alkalinity, Radium



# Low-Flow Test Report:

Test Date / Time: 1/19/2022 11:35:56 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-117D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 69.03 ft</b> <b>Total Depth: 79.03 ft</b> <b>Initial Depth to Water: 29.13 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 74 ft</b> <b>Pump Intake From TOC: 74 ft</b> <b>Estimated Total Volume Pumped: 9000 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.97 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728623</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3	
1/19/2022 11:35 AM	00:00	6.45 pH	15.49 °C	105.75 µS/cm	2.85 mg/L	6.88 NTU	71.4 mV	29.13 ft	200.00 ml/min
1/19/2022 11:40 AM	05:00	6.12 pH	16.50 °C	105.92 µS/cm	5.34 mg/L	5.44 NTU	70.4 mV	29.85 ft	200.00 ml/min
1/19/2022 11:45 AM	10:00	6.02 pH	16.65 °C	108.06 µS/cm	3.68 mg/L	4.17 NTU	70.6 mV	29.95 ft	200.00 ml/min
1/19/2022 11:50 AM	15:00	6.02 pH	16.74 °C	110.31 µS/cm	2.85 mg/L	2.19 NTU	68.6 mV	30.12 ft	200.00 ml/min
1/19/2022 11:55 AM	20:00	6.02 pH	16.74 °C	120.64 µS/cm	3.73 mg/L	2.40 NTU	67.9 mV	30.18 ft	200.00 ml/min
1/19/2022 12:00 PM	25:00	6.02 pH	16.77 °C	125.35 µS/cm	3.72 mg/L	2.39 NTU	64.6 mV	30.18 ft	200.00 ml/min
1/19/2022 12:05 PM	30:00	6.00 pH	16.79 °C	129.91 µS/cm	4.84 mg/L	1.68 NTU	65.7 mV	30.18 ft	200.00 ml/min
1/19/2022 12:10 PM	35:00	6.00 pH	16.92 °C	134.80 µS/cm	4.00 mg/L	1.94 NTU	65.9 mV	30.05 ft	200.00 ml/min
1/19/2022 12:15 PM	40:00	6.02 pH	16.87 °C	136.80 µS/cm	3.98 mg/L	2.85 NTU	64.9 mV	30.05 ft	200.00 ml/min
1/19/2022 12:20 PM	45:00	6.02 pH	16.91 °C	137.65 µS/cm	4.14 mg/L	2.41 NTU	64.8 mV	30.10 ft	200.00 ml/min

## Samples

Sample ID:	Description:
B-117D	



# Low-Flow Test Report:

Test Date / Time: 1/19/2022 1:09:07 PM

Project: Plant McDonough

Operator Name: Joe Booth

<b>Location Name: B-118</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 68.32 ft</b> <b>Total Depth: 78.32 ft</b> <b>Initial Depth to Water: 51.12 ft</b>	<b>Pump Type: QED Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 73 ft</b> <b>Pump Intake From TOC: 73 ft</b> <b>Estimated Total Volume Pumped: 5600 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.16 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843285</b>
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## Test Notes:

Prepurged 1.5 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.3	+/- 10	+/- 1000 %	+/- 0.3	
1/19/2022 1:09 PM	00:00	6.14 pH	15.88 °C	87.91 µS/cm	6.02 mg/L	12.30 NTU	25.6 mV	51.12 ft	200.00 ml/min
1/19/2022 1:13 PM	04:00	6.05 pH	15.74 °C	87.68 µS/cm	5.48 mg/L	11.30 NTU	32.4 mV	51.28 ft	200.00 ml/min
1/19/2022 1:17 PM	08:00	6.02 pH	15.85 °C	87.21 µS/cm	5.39 mg/L	13.40 NTU	37.0 mV	51.28 ft	200.00 ml/min
1/19/2022 1:21 PM	12:00	6.01 pH	15.87 °C	86.96 µS/cm	5.49 mg/L	13.00 NTU	40.3 mV	51.28 ft	200.00 ml/min
1/19/2022 1:25 PM	16:00	6.03 pH	15.78 °C	86.93 µS/cm	5.39 mg/L	10.97 NTU	42.0 mV	51.28 ft	200.00 ml/min
1/19/2022 1:29 PM	20:00	6.02 pH	15.77 °C	86.72 µS/cm	5.36 mg/L	7.57 NTU	45.1 mV	51.28 ft	200.00 ml/min
1/19/2022 1:33 PM	24:00	6.01 pH	15.74 °C	86.52 µS/cm	5.29 mg/L	5.51 NTU	47.3 mV	51.28 ft	200.00 ml/min
1/19/2022 1:37 PM	28:00	6.01 pH	15.78 °C	86.28 µS/cm	5.28 mg/L	4.43 NTU	49.2 mV	51.28 ft	200.00 ml/min

## Samples

Sample ID:	Description:
B-118	Metals, TDS, Inorganics, Alkalinity, Radium

# Low-Flow Test Report:

Test Date / Time: 1/19/2022 10:24:35 AM

Project: Plant McDonough

Operator Name: Joe Booth

<b>Location Name: B-119D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 97.98 ft</b> <b>Total Depth: 107.98 ft</b> <b>Initial Depth to Water: 45.95 ft</b>	<b>Pump Type: QED Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Tubing Inner Diameter: 0.170 in</b> <b>Tubing Length: 103 ft</b> <b>Pump Intake From TOC: 103 ft</b> <b>Estimated Total Volume Pumped: 9360 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 130 ml/min</b> <b>Final Draw Down: 3.03 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843285</b>
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## Test Notes:

Prepurged 2 liters

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.3	+/- 10	+/- 1000 %	+/- 0.3	
1/19/2022 10:24 AM	00:00	6.68 pH	10.89 °C	230.60 µS/cm	4.15 mg/L	5.76 NTU	65.1 mV	45.95 ft	130.00 ml/min
1/19/2022 10:28 AM	04:00	6.69 pH	12.51 °C	507.69 µS/cm	2.17 mg/L	4.17 NTU	35.4 mV	47.74 ft	130.00 ml/min
1/19/2022 10:32 AM	08:00	6.77 pH	13.06 °C	598.28 µS/cm	1.32 mg/L	3.98 NTU	15.2 mV	47.93 ft	130.00 ml/min
1/19/2022 10:36 AM	12:00	6.80 pH	13.18 °C	623.21 µS/cm	1.02 mg/L	2.36 NTU	4.3 mV	48.11 ft	130.00 ml/min
1/19/2022 10:40 AM	16:00	6.83 pH	13.20 °C	626.76 µS/cm	0.84 mg/L	2.14 NTU	-9.5 mV	48.24 ft	130.00 ml/min
1/19/2022 10:44 AM	20:00	6.86 pH	13.29 °C	617.87 µS/cm	0.74 mg/L	2.29 NTU	-23.0 mV	48.38 ft	130.00 ml/min
1/19/2022 10:48 AM	24:00	6.88 pH	13.34 °C	596.21 µS/cm	0.72 mg/L	1.97 NTU	-31.9 mV	48.49 ft	130.00 ml/min
1/19/2022 10:52 AM	28:00	6.89 pH	13.48 °C	565.29 µS/cm	0.74 mg/L	2.39 NTU	-35.9 mV	48.56 ft	130.00 ml/min
1/19/2022 10:56 AM	32:00	6.90 pH	13.53 °C	526.57 µS/cm	0.78 mg/L	2.21 NTU	-37.1 mV	48.64 ft	130.00 ml/min
1/19/2022 11:00 AM	36:00	6.88 pH	13.61 °C	466.45 µS/cm	0.81 mg/L	2.05 NTU	-35.5 mV	48.69 ft	130.00 ml/min
1/19/2022 11:04 AM	40:00	6.84 pH	13.57 °C	409.51 µS/cm	0.86 mg/L	2.50 NTU	-31.9 mV	48.74 ft	130.00 ml/min
1/19/2022 11:08 AM	44:00	6.78 pH	13.72 °C	352.51 µS/cm	0.96 mg/L	2.41 NTU	-27.2 mV	48.83 ft	130.00 ml/min
1/19/2022 11:12 AM	48:00	6.73 pH	13.83 °C	317.75 µS/cm	1.05 mg/L	2.16 NTU	-22.3 mV	48.85 ft	130.00 ml/min
1/19/2022 11:16 AM	52:00	6.69 pH	13.93 °C	296.29 µS/cm	1.12 mg/L	2.38 NTU	-17.1 mV	48.87 ft	130.00 ml/min

1/19/2022 11:20 AM	56:00	6.66 pH	14.07 °C	283.74 µS/cm	1.19 mg/L	2.34 NTU	-13.3 mV	48.90 ft	130.00 ml/min
1/19/2022 11:24 AM	01:00:00	6.65 pH	14.23 °C	278.12 µS/cm	1.22 mg/L	2.43 NTU	-10.1 mV	48.93 ft	130.00 ml/min
1/19/2022 11:28 AM	01:04:00	6.63 pH	14.24 °C	273.29 µS/cm	1.25 mg/L	2.31 NTU	-7.0 mV	48.95 ft	130.00 ml/min
1/19/2022 11:32 AM	01:08:00	6.63 pH	14.25 °C	266.79 µS/cm	1.27 mg/L	2.28 NTU	-4.6 mV	48.96 ft	130.00 ml/min
1/19/2022 11:36 AM	01:12:00	6.61 pH	14.23 °C	258.23 µS/cm	1.31 mg/L	1.54 NTU	-2.6 mV	48.98 ft	130.00 ml/min

## Samples

Sample ID:	Description:
B-119D	Metals, TDS, Inorganics, Radium

# Low-Flow Test Report:

**Test Date / Time:** 1/19/2022 3:51:12 PM

**Project:** Plant McDonough

**Operator Name:** Jude Waguespack

<b>Location Name:</b> SW-1	<b>Pump Type:</b> N/A <b>Flow Cell Volume:</b> 90 ml	<b>Instrument Used:</b> Aqua TROLL 400 <b>Serial Number:</b> 728623
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3
1/19/2022 3:51 PM	00:00	6.85 pH	12.42 °C	379.99 µS/cm	7.40 mg/L		21.5 mV	
1/19/2022 3:52 PM	01:00	6.84 pH	12.40 °C	381.30 µS/cm	7.41 mg/L	5.36 NTU	21.7 mV	

## Samples

Sample ID:	Description:
SW-1	

# Low-Flow Test Report:

**Test Date / Time:** 1/19/2022 3:03:42 PM

**Project:** Plant McDonough

**Operator Name:** Jude Waguespack

<b>Location Name: SW-2</b>	<b>Pump Type: N/A</b> <b>Flow Cell Volume: 90 ml</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728623</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3
1/19/2022 3:03 PM	00:00	7.42 pH	11.06 °C	242.68 µS/cm	9.64 mg/L		42.3 mV	
1/19/2022 3:04 PM	01:00	7.43 pH	11.20 °C	241.77 µS/cm	9.64 mg/L	6.46 NTU	38.7 mV	

## Samples

Sample ID:	Description:
SW-2	

# Low-Flow Test Report:

**Test Date / Time:** 1/19/2022 2:42:35 PM

**Project:** Plant McDonough

**Operator Name:** Jude Waguespack

<b>Location Name: SW-3</b>	<b>Pump Type: N/A</b> <b>Flow Cell Volume: 90 ml</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728623</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3
1/19/2022 2:42 PM	00:00	7.38 pH	11.29 °C	253.23 µS/cm	9.97 mg/L		1.2 mV	
1/19/2022 2:43 PM	01:00	7.39 pH	11.15 °C	255.14 µS/cm	10.07 mg/L	5.63 NTU	2.5 mV	

## Samples

Sample ID:	Description:
SW-3	



# Low-Flow Test Report:

**Test Date / Time:** 1/19/2022 2:17:40 PM

**Project:** Plant McDonough

**Operator Name:** Jude Waguespack

<b>Location Name: SW-4</b>	<b>Pump Type: N/A</b> <b>Flow Cell Volume: 90 ml</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728623</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 2	+/- 10	+/- 0.3
1/19/2022 2:17 PM	00:00	7.01 pH	12.90 °C	330.64 µS/cm	9.33 mg/L	4.91 NTU	33.9 mV	
1/19/2022 2:18 PM	01:00	7.02 pH	12.86 °C	330.80 µS/cm	9.34 mg/L	4.82 NTU	32.9 mV	

## Samples

Sample ID:	Description:
SW-4	

**APPENDIX A**

**Field Data Forms June 2022**

# Low-Flow Test Report:

Test Date / Time: 6/6/2022 10:41:29 AM

Project: plant McDonough

Operator Name: Joe Booth

<b>Location Name: DGWC-121</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 39.4 ft</b> <b>Total Depth: 49.4 ft</b> <b>Initial Depth to Water: 9.69 ft</b>	<b>Pump Type: Alexis Peristaltic</b> <b>Tubing Type: Hope</b> <b>Pump Intake From TOC: 44 ft</b> <b>Estimated Total Volume Pumped: 9805 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 5.36 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843285</b>
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## Test Notes:

Prepurged 1.5 liters

## Weather Conditions:

80 sunny

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 1 %	+/- 5	+/- 100 %	+/- 0.3	
6/6/2022 10:41 AM	00:00	6.32 pH	22.07 °C	356.29 µS/cm	0.56 mg/L	23.00 NTU	-19.0 mV	9.69 ft	150.00 ml/min
6/6/2022 10:45 AM	04:00	6.28 pH	20.70 °C	359.23 µS/cm	0.89 mg/L	22.30 NTU	-19.9 mV	12.49 ft	150.00 ml/min
6/6/2022 10:49 AM	08:00	6.28 pH	20.57 °C	360.21 µS/cm	0.98 mg/L	18.90 NTU	-28.7 mV	13.10 ft	150.00 ml/min
6/6/2022 10:53 AM	12:00	6.29 pH	20.64 °C	360.97 µS/cm	0.94 mg/L	17.60 NTU	-40.9 mV	13.70 ft	150.00 ml/min
6/6/2022 10:54 AM	13:07	6.29 pH	20.61 °C	361.05 µS/cm	0.94 mg/L	17.60 NTU	-43.9 mV	13.70 ft	150.00 ml/min
6/6/2022 10:58 AM	17:22	6.30 pH	20.37 °C	362.13 µS/cm	0.83 mg/L	15.00 NTU	-56.4 mV	14.33 ft	150.00 ml/min
6/6/2022 11:02 AM	21:22	6.31 pH	20.15 °C	367.16 µS/cm	0.72 mg/L	12.30 NTU	-63.7 mV	14.36 ft	150.00 ml/min
6/6/2022 11:06 AM	25:22	6.32 pH	20.22 °C	366.44 µS/cm	0.63 mg/L	12.00 NTU	-68.4 mV	14.39 ft	150.00 ml/min
6/6/2022 11:10 AM	29:22	6.32 pH	20.11 °C	367.45 µS/cm	0.57 mg/L	10.60 NTU	-72.1 mV	14.42 ft	150.00 ml/min
6/6/2022 11:14 AM	33:22	6.32 pH	20.11 °C	367.26 µS/cm	0.52 mg/L	10.40 NTU	-74.5 mV	14.46 ft	150.00 ml/min
6/6/2022 11:18 AM	37:22	6.33 pH	20.37 °C	366.41 µS/cm	0.44 mg/L	7.38 NTU	-78.4 mV	14.50 ft	150.00 ml/min
6/6/2022 11:22 AM	41:22	6.33 pH	20.81 °C	363.49 µS/cm	0.39 mg/L	9.20 NTU	-80.4 mV	14.65 ft	150.00 ml/min
6/6/2022 11:26 AM	45:22	6.33 pH	20.89 °C	363.60 µS/cm	0.36 mg/L	7.90 NTU	-81.5 mV	14.70 ft	150.00 ml/min

6/6/2022 11:30 AM	49:22	6.33 pH	20.75 °C	362.38 µS/cm	0.32 mg/L	7.29 NTU	-83.0 mV	14.85 ft	150.00 ml/min
6/6/2022 11:34 AM	53:22	6.33 pH	20.91 °C	363.13 µS/cm	0.28 mg/L	6.48 NTU	-84.8 mV	14.90 ft	150.00 ml/min
6/6/2022 11:38 AM	57:22	6.33 pH	20.51 °C	363.20 µS/cm	0.26 mg/L	6.14 NTU	-84.0 mV	14.95 ft	150.00 ml/min
6/6/2022 11:42 AM	01:01:22	6.33 pH	20.33 °C	363.10 µS/cm	0.24 mg/L	5.67 NTU	-84.0 mV	15.00 ft	150.00 ml/min
6/6/2022 11:46 AM	01:05:22	6.33 pH	20.79 °C	362.78 µS/cm	0.22 mg/L	4.78 NTU	-83.7 mV	15.05 ft	150.00 ml/min

## Samples

Sample ID:	Description:
DGWC-121	Metals, Alkalinity, inorganics, radium
DUP-1	Metals, Alkalinity, inorganics, radium

# Low-Flow Test Report:

Test Date / Time: 6/6/2022 10:25:23 AM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: B-122D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 70.63 ft</b> <b>Total Depth: 80.63 ft</b> <b>Initial Depth to Water: 30.67 m</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 75 m</b> <b>Estimated Total Volume Pumped: 9750 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: -19.825 m</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 851413</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
6/6/2022 10:25 AM	00:00	6.00 pH	25.59 °C	397.03 µS/cm	2.00 mg/L	43.50 NTU	30.6 mV	30.67 ft	150.00 ml/min
6/6/2022 10:30 AM	05:00	5.98 pH	24.37 °C	397.09 µS/cm	0.91 mg/L	24.40 NTU	25.8 mV	31.62 ft	150.00 ml/min
6/6/2022 10:35 AM	10:00	5.98 pH	21.78 °C	394.10 µS/cm	0.58 mg/L	10.80 NTU	26.4 mV	32.15 ft	150.00 ml/min
6/6/2022 10:40 AM	15:00	5.99 pH	21.68 °C	396.75 µS/cm	0.58 mg/L	10.30 NTU	26.0 mV	32.94 ft	150.00 ml/min
6/6/2022 10:45 AM	20:00	5.98 pH	21.46 °C	403.21 µS/cm	0.57 mg/L	7.73 NTU	25.0 mV	33.50 ft	150.00 ml/min
6/6/2022 10:50 AM	25:00	5.98 pH	21.32 °C	409.81 µS/cm	0.37 mg/L	6.54 NTU	23.6 mV	34.00 ft	150.00 ml/min
6/6/2022 10:55 AM	30:00	5.99 pH	21.30 °C	421.36 µS/cm	0.29 mg/L	6.39 NTU	19.6 mV	34.40 ft	150.00 ml/min
6/6/2022 11:00 AM	35:00	6.00 pH	21.15 °C	432.98 µS/cm	0.27 mg/L	4.06 NTU	20.9 mV	34.70 ft	150.00 ml/min
6/6/2022 11:05 AM	40:00	6.00 pH	21.44 °C	444.89 µS/cm	0.23 mg/L	3.88 NTU	15.6 mV	35.00 ft	150.00 ml/min
6/6/2022 11:10 AM	45:00	6.00 pH	21.55 °C	449.85 µS/cm	0.22 mg/L	3.50 NTU	19.6 mV	35.15 ft	150.00 ml/min
6/6/2022 11:15 AM	50:00	6.01 pH	21.41 °C	452.28 µS/cm	0.20 mg/L	3.08 NTU	17.6 mV	35.30 ft	150.00 ml/min
6/6/2022 11:20 AM	55:00	6.01 pH	21.59 °C	456.28 µS/cm	0.20 mg/L	4.36 NTU	10.7 mV	35.39 ft	150.00 ml/min
6/6/2022 11:25 AM	01:00:00	6.02 pH	21.64 °C	463.17 µS/cm	0.17 mg/L	3.66 NTU	15.4 mV	35.52 ft	150.00 ml/min
6/6/2022 11:30 AM	01:05:00	6.02 pH	21.81 °C	466.87 µS/cm	0.16 mg/L	3.21 NTU	7.5 mV	35.58 ft	150.00 ml/min

**Samples**

Sample ID:	Description:
B-122D	

# Low-Flow Test Report:

Test Date / Time: 6/8/2022 2:46:10 PM

Project: plant McDonough (2)

Operator Name: Joe Booth

<b>Location Name: B-123D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 50 ft</b> <b>Top of Screen: 114.9 ft</b> <b>Total Depth: 164.9 ft</b> <b>Initial Depth to Water: 108.5 ft</b>	<b>Pump Type: Alexis Peristaltic</b> <b>Tubing Type: Hope</b> <b>Pump Intake From TOC: 135 ft</b> <b>Estimated Total Volume Pumped: 6673.333 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: -0.02 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843285</b>
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## Test Notes:

Prepurged 100 gallons during development

## Weather Conditions:

80 sunny

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 100 %	+/- 0.3	
6/8/2022 2:46 PM	00:00	6.64 pH	23.34 °C	777.35 µS/cm	6.18 mg/L	6.70 NTU	-61.8 mV	110.05 ft	200.00 ml/min
6/8/2022 2:50 PM	04:00	6.64 pH	23.47 °C	775.83 µS/cm	6.11 mg/L	6.40 NTU	-61.0 mV	109.74 ft	200.00 ml/min
6/8/2022 2:54 PM	08:00	6.63 pH	23.33 °C	774.09 µS/cm	6.15 mg/L	6.76 NTU	-59.4 mV	109.09 ft	200.00 ml/min
6/8/2022 2:58 PM	12:00	6.63 pH	23.63 °C	774.41 µS/cm	6.17 mg/L	6.62 NTU	-58.9 mV	108.81 ft	200.00 ml/min
6/8/2022 3:02 PM	16:00	6.62 pH	23.55 °C	775.37 µS/cm	6.25 mg/L	6.08 NTU	-57.1 mV	108.68 ft	200.00 ml/min
6/8/2022 3:06 PM	20:00	6.62 pH	23.63 °C	772.80 µS/cm	6.17 mg/L	6.23 NTU	-56.5 mV	108.54 ft	200.00 ml/min
6/8/2022 3:10 PM	24:00	6.61 pH	23.23 °C	771.55 µS/cm	6.24 mg/L	5.24 NTU	-54.7 mV	108.51 ft	200.00 ml/min
6/8/2022 3:14 PM	28:00	6.61 pH	23.69 °C	771.25 µS/cm	6.20 mg/L	4.84 NTU	-54.9 mV	108.48 ft	200.00 ml/min
6/8/2022 3:15 PM	29:22	6.61 pH	23.64 °C	769.71 µS/cm	6.14 mg/L	4.78 NTU	-56.0 mV	108.48 ft	200.00 ml/min
6/8/2022 3:19 PM	33:22	6.59 pH	23.41 °C	773.52 µS/cm	6.30 mg/L	4.33 NTU	-51.5 mV	108.48 ft	200.00 ml/min

## Samples

Sample ID:	Description:
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**APPENDIX A**

**Instrument Calibration Forms  
September 2021**



\*Include daily mid-day pH check\*

Project Plant McDonough  
 Field Staff J. Waguespack / E. Rheams / K. Minkara / D. Fulton

Instrument Calibration

Date: 09/09/21 09/13/21 09/14/21 09/14/21  
 Time: 07:33 07:30 07:15

Parameter	Units	Standard	SmartROLL SN 85075 iPad # 81	SmartROLL SN 85075 iPad # 81	SmartROLL SN 85075 iPad # 81	SmartROLL SN 81397 iPad # 109
DO	% saturation	100	99.46	105.94	98.17	100.52
Conductivity	uS/cm	4490	4509.7	4645.9	4257.4	4305.5
pH	S.U.	4.00	4.00	4.05	3.95	4.00
pH	S.U.	7.00	7.05	7.05	6.95	7.00
pH	S.U.	10.00	10.37	10.04	9.98	9.97
ORP	mV	228.00	228	225.3	229.4	226.1

Turbidity	Units	Standard	LaMotte SN 6950-315	LaMotte SN 5060-300	LaMotte SN 5990-305	LaMotte SN 7007-116
	NTU	0.0	0.0	0.0	0.77	0.33
	NTU	1.0	0.93	1.25	2.17	0.95
	NTU	10.0	9.03	9.87	9.109	10.14

Date: 09/10/21 09/13/21 09/14/21  
 Time: 07:25 10:30 15:37

Parameter	Units	Standard	SmartROLL SN 85075 iPad # 81	SmartROLL SN 85075 iPad # 81	SmartROLL SN 85075 iPad # 81	SmartROLL SN _____ iPad # _____
DO	% saturation	100	99.46			
Conductivity	uS/cm	4490	4471.2			
pH	S.U.	4.00	4.02	4.03	4.01	
pH	S.U.	7.00	7.02	7.03	7.03	
pH	S.U.	10.00	10.06	9.78	9.69	
ORP	mV	228.00	224.0			

Turbidity	Units	Standard	LaMotte SN 6950-315	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.01			
	NTU	1.0	0.98			
	NTU	10.0	9.28			

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

Project Plant McDonough *\*Include daily mid-day pH check\**  
 Field Staff J. Wajarespach, Rheams / K. Minkar, L. G. Fulton

Instrument Calibration

Date: 09/10/21 09/15/21 09/16/21  
 Time: 07:30 08:45 08:40

Parameter	Units	Standard	SmartROLL SN 850767 iPad # 81	SmartROLL SN 743253 iPad # 81	SmartROLL SN 850767 iPad # 81	SmartROLL SN _____ iPad # _____
DO	% saturation	100	98.83	97.73	101.90	
Conductivity	us/cm	4490	4426	4524.6	4476.6	
pH	S.U.	4.00	3.94	4.03	4.00	
pH	S.U.	7.00	6.92	7.00	7.00	
pH	S.U.	10.00	9.95	10.02	9.98	
ORP	mV	228.00	225.6	220.5	236.6	

	Units	Standard	LaMotte SN 990-315	LaMotte SN 7007-141	LaMotte SN 990-315	LaMotte SN _____
Turbidity	NTU	0.0	0.0	0.01	0.05	
	NTU	1.0	0.92	0.92	0.91	
	NTU	10.0	9.93	9.95	9.64	

Date: 09/14/21 09/14/21  
 Time: 09:00

Parameter	Units	Standard	SmartROLL SN 850767 iPad # 107	SmartROLL SN 850767 iPad # 51	SmartROLL SN _____ iPad # _____	SmartROLL SN _____ iPad # _____
DO	% saturation	100	101.72			
Conductivity	us/cm	4490	4538.9			
pH	S.U.	4.00	4.04	4.01		
pH	S.U.	7.00	7.06	7.03		
pH	S.U.	10.00	10.00	10.07		
ORP	mV	228.00	229.0			

	Units	Standard	LaMotte SN 7007-141	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
Turbidity	NTU	0.0	0.02			
	NTU	1.0	1.18			
	NTU	10.0	10.02			

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

\*Include daily mid-day pH check\*

Project Plant McDonough  
 Field Staff J. Waguespack / E. Rheams / K. Minars / D. Fulton

Instrument Calibration

Date: 09/09/21 9/10/21 9/13/21 9/13/21  
 Time: 05:05 03:31 09:24 12:30

Parameter	Units	Standard	SmarTROLL SN 843593 iPad # 109	SmarTROLL SN 257071 iPad # 109	SmarTROLL SN 243073 iPad # 109	SmarTROLL SN _____ iPad # _____
DO	% saturation	100	98.51	106.80	76.53	
Conductivity	us/cm	4490	4722.8	4771.6	4693.1	
pH	S.U.	4.00	7.01	7.01	7.12	
pH	S.U.	7.00	7.05	7.01	7.07	7.00
pH	S.U.	10.00	9.98	10.05	10.03	
ORP	mV	226.00	227	225.5	228.0	

Turbidity	Units	Standard	LaMotte SN 3007-146	LaMotte SN 3007-146	LaMotte SN 3007-146	LaMotte SN _____
	NTU	0.0	0.56	0.0	0.25	
	NTU	1.0	1.15	1.09	0.98	
	NTU	10.0	9.30	7.54	8.88	

Date: 9/13/21  
 Time: 11:10

Parameter	Units	Standard	SmarTROLL SN 257072 iPad # _____	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____
DO	% saturation	100	100.42			
Conductivity	us/cm	4490	4671.5			
pH	S.U.	4.00	7.02			
pH	S.U.	7.00	7.03			
pH	S.U.	10.00	10.0			
ORP	mV	226.00	220.5			

Turbidity	Units	Standard	LaMotte SN 1510-911	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.02			
	NTU	1.0	0.74			
	NTU	10.0	12.73			

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

\*Include daily mid-day pH check\*

Project Plant McDonough  
 Field Staff J. Waguespack / E. Rheams / K. Minkars / D. Fulton

Instrument Calibration

Date: 9-8-21 9-7-21 9-10-21  
 Time: 11:00 08:30 10:30

Parameter	Units	Standard	SmarTROLL SN 310-28 iPad # 11	SmarTROLL SN 267-22 iPad # 11	SmarTROLL SN 04-24 iPad # 11	SmarTROLL SN _____ iPad # _____
DO	% saturation	100	98.81	98.53	101.94	
Conductivity	us/cm	4400	3850	3242	4746	
pH	S.U.	4.00	3.56	3.99	3.99	
pH	S.U.	7.00	7.23	7.00	7.02	
pH	S.U.	10.00	9.92	9.94	10.04	
ORP	mV	228.00	223.8	227.4	232.6	

Turbidity	Units	Standard	LaMotte SN 130-911	LaMotte SN 130-911	LaMotte SN 130-911	LaMotte SN _____
	NTU	0.0	0.00	0.01	0.06	
	NTU	1.0	1.09	1.00	1.11	
	NTU	10.0	8.74	10.01	9.88	

Date: 9/10/21  
 Time: 2:00

Parameter	Units	Standard	SmarTROLL SN 84-092 iPad # 124	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____
DO	% saturation	100	98.56			
Conductivity	us/cm	4400	3852.3			
pH	S.U.	4.00	4.09			
pH	S.U.	7.00	7.07			
pH	S.U.	10.00	10.37			
ORP	mV	228.00	217.8			

Turbidity	Units	Standard	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0				
	NTU	1.0				
	NTU	10.0				

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

**APPENDIX A**

**Instrument Calibration Forms  
January 2022**

\*Include daily mid-day pH check\*

Project Plant McDonough  
 Field Staff J. Wagenseck, D. Fulton, E. Rheans, J. Booth

Instrument Calibration

		Date:	1/17/22		
		Time:	10:30		
Parameter	Units	Standard	SmartROLL SN 228622 iPad # 5528	Mid-Day pH	SmartROLL SN _____ iPad # _____
DO	% saturation	100	102.30	-----	-----
Conductivity	us/cm	4400	527.7	-----	-----
pH	S.U.	4.00	4.07		
pH	S.U.	7.00	7.26		
pH	S.U.	10.00	10.51		
ORP	mV	228.00	235.6	-----	-----

Turbidity	Units	Standard	LaMotte SN 2573-1615	LaMotte SN _____	LaMotte SN 262-1116	LaMotte SN 162-4411
	NTU	0.0	0.0			0.01
	NTU	1.0	0.80			1.13
	NTU	10.0	10.92			1.87

		Date:	01/27/22		
		Time:	0820		
Parameter	Units	Standard	SmartROLL SN 221422 iPad # 82	Mid-Day pH	SmartROLL SN _____ iPad # _____
DO	% saturation	100	107.12	-----	-----
Conductivity	us/cm	4400	527.6	-----	-----
pH	S.U.	4.00	4.05		
pH	S.U.	7.00	7.10		
pH	S.U.	10.00	10.14		
ORP	mV	228.00	232.2	-----	-----

Turbidity	Units	Standard	LaMotte SN H22-2511	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.02			
	NTU	1.0	1.06			
	NTU	10.0	10.06			

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

Project Plant McDonough *\*Include daily mid-day pH check\**  
 Field Staff J. Wagunspack, D. Fulton, E. Rhoads, J. Booth

Instrument Calibration

		Date:	1/17/22			
		Time:	8:00			
Parameter	Units	Standard	SmartROLL SN _____ iPad # _____	Mid-Day pH	SmartROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100		-----		-----
Conductivity	us/cm	4400	4134	-----		-----
pH	S.U.	4.00	3.95921			
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	225.00		-----		-----

Turbidity	Units	Standard	LaMotte SN	LaMotte SN	LaMotte SN	LaMotte SN
	NTU	0.0				
	NTU	1.0				
	NTU	10.0				

		Date:				
		Time:				
Parameter	Units	Standard	SmartROLL SN _____ iPad # _____	Mid-Day pH	SmartROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100		-----		-----
Conductivity	us/cm	4400		-----		-----
pH	S.U.	4.00				
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	225.00		-----		-----

Turbidity	Units	Standard	LaMotte SN	LaMotte SN	LaMotte SN	LaMotte SN
	NTU	0.0				
	NTU	1.0				
	NTU	10.0				

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

Project Plant McDonough *\*Include daily mid-day pH check\**  
 Field Staff J. Waguespack, D. Fulton, E. Rheams, J. Booth

Instrument Calibration

Parameter	Units	Standard	Date: 01/19/22		Date: 01/19/22	
			SmartROLL SN 851412 iPad # 20	Mid-Day pH	SmartROLL SN 851412 iPad # 20	Mid-Day pH
DO	% saturation	100	101.95	---	98.99	---
Conductivity	us/cm	4490	---	---	4489.2	---
pH	S.U.	4.00	---	---	5.96	4.01
pH	S.U.	7.00	---	---	7.03	7.10
pH	S.U.	10.00	---	---	10.09	10.11
ORP	mV	328.00	---	---	244.1	---

Turbidity	Units	Standard	LaMotte SN 1938-318	LaMotte SN	LaMotte SN 1938-318	LaMotte SN 1938-318
	NTU	0.0	0.04	0.01	0.01	
	NTU	1.0	1.07	1.13	1.13	
	NTU	10.0	9.92		10.91	

Parameter	Units	Standard	Date: 01/20/22		Date: 01/20/22	
			SmartROLL SN iPad #	Mid-Day pH	SmartROLL SN iPad #	Mid-Day pH
DO	% saturation	100	100.20	---	101.90	---
Conductivity	us/cm	4490	4589.2	---	4676.3	---
pH	S.U.	4.00	4.04	4.68	3.93	
pH	S.U.	7.00	7.03	6.38	7.04	
pH	S.U.	10.00	10.11	10.03	10.22	
ORP	mV	328.00	287.0	---	290.2	---

Turbidity	Units	Standard	LaMotte SN 1938-318	LaMotte SN	LaMotte SN 1938-318	LaMotte SN
	NTU	0.0	0.01		0.01	
	NTU	1.0	1.07		1.07	
	NTU	10.0	9.92		10.13	

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



\*Include daily mid-day pH check\*

Project Plant McDonough  
 Field Staff J. Waguespack, O. Fulton, E. Rhams, J. Booth

Instrument Calibration

		Date: 01/24/22		Date: 01/25/22		
		Time: 0730		Time: 0730		
Parameter	Units	Standard	SmartROLL SN 821413 iPad # 80	Mid-Day pH	SmartROLL SN 821413 iPad # 80	Mid-Day pH
DO	% saturation	100	92.91	-----	103.17	-----
Conductivity	us/cm	4490	4620.5	-----	4673.1	-----
pH	S.U.	4.00	4.03	3.99	4.08	
pH	S.U.	7.00	7.13	7.07	7.14	
pH	S.U.	10.00	10.09	9.98	10.17	
ORP	mV	228.00	234.1	-----	219.4	-----

Turbidity	Units	Standard	LaMotte SN 1918-311	LaMotte SN 1918-311	LaMotte SN 1918-311	LaMotte SN 1918-311
	NTU	0.0	-0.03	0.0	-0.05	
	NTU	1.0	1.02		1.03	
	NTU	10.0	10.03		9.95	

		Date: 01/24/22				
		Time: 0730				
Parameter	Units	Standard	SmartROLL SN 728623 iPad #	Mid-Day pH	SmartROLL SN 821413 iPad #	Mid-Day pH
DO	% saturation	100	94.3	-----	103.13	-----
Conductivity	us/cm	4490	4688.7	-----	4598.5	-----
pH	S.U.	4.00	4.05		4.07	
pH	S.U.	7.00	6.97		7.51	
pH	S.U.	10.00	9.03		10.04	
ORP	mV	228.00	233.6	-----	249.6	-----

Turbidity	Units	Standard	LaMotte SN	LaMotte SN	LaMotte SN	LaMotte SN
	NTU	0.0				
	NTU	1.0				
	NTU	10.0				

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

B-1020  
 BGWC-10

\*Include daily mid-day pH check\*

Project Plant McDonough  
 Field Staff J. Wagunspack, D. Fulton, E. Rheams, J. Booth

Instrument Calibration

		Date: 01/26/22 Time: 06:00		Date: 01/26/22 Time: 14:15		
Parameter	Units	Standard	SmartROLL SN 550731 iPad # 299	Mid-Day pH	SmartROLL SN 550731 iPad # 299	Mid-Day pH
DO	% saturation	100	99.59	-----	100.53	-----
Conductivity	us/cm	4490	4482.4	-----	4477.1	-----
pH	S.U.	4.00	4.10	4.03	3.94	4.00
pH	S.U.	7.00	7.02	7.03	6.98	7.07
pH	S.U.	10.00	10.02	10.07	10.04	10.04
ORP	mV	328.00	230.6	-----	230.3	-----

Turbidity	Units	Standard	LaMotte SN 5571-1515	LaMotte SN	LaMotte SN 5578-1515	LaMotte SN 5579-1515
	NTU	0.0	0.6	-----	0.02	0.11
	NTU	1.0	1.0	-----	1.25	1.07
	NTU	10.0	10.70	-----	10.9	10.61

		Date: 01/27/22 Time: 06:00				
Parameter	Units	Standard	SmartROLL SN 550731 iPad # 299	Mid-Day pH	SmartROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100	99.56	-----	-----	-----
Conductivity	us/cm	4490	4431.1	-----	-----	-----
pH	S.U.	4.00	3.96	-----	-----	-----
pH	S.U.	7.00	6.97	-----	-----	-----
pH	S.U.	10.00	10.07	-----	-----	-----
ORP	mV	328.00	232.9	-----	-----	-----

Turbidity	Units	Standard	LaMotte SN	LaMotte SN	LaMotte SN	LaMotte SN
	NTU	0.0	-----	-----	-----	-----
	NTU	1.0	-----	-----	-----	-----
	NTU	10.0	-----	-----	-----	-----

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

Project Plant McDonough *\*Include daily mid-day pH check\**  
 Field Staff J. Weguspack, D. Fulton, E. Rheans, J. Booth

Instrument Calibration

		Date: 01/19/22		Date: 01/19/22	
		Time: 14:30		Time: 05:20	
Parameter	Units	Standard	SmartROLL SN 250751 iPad #294	Mid-Day pH	SmartROLL SN 250751 iPad #294
DO	% saturation	100	110.16	-----	97.09
Conductivity	us/cm	4400	3390	-----	4423.9
pH	S.U.	4.00	3.97	NC	4.03
pH	S.U.	7.00	7.35	-----	7.03
pH	S.U.	10.00	12.75	-----	10.01
ORP	mV	228.00	233.5	-----	222.9

Turbidity	Units	Standard	LaMotte SN 2491	LaMotte SN	LaMotte SN 2491	LaMotte SN 2491
	NTU	0.0	0.0	NC	0.02	0.02
	NTU	1.0	0.9	-----	0.97	0.97
	NTU	10.0	10.10	-----	10.40	10.42

		Date: 01/20/22		Date: 01/21/22	
		Time: 05:30		Time: 06:30	
Parameter	Units	Standard	SmartROLL SN 250751 iPad #294	Mid-Day pH	SmartROLL SN 250751 iPad #294
DO	% saturation	100	101.21	-----	101.32
Conductivity	us/cm	4400	4440.5	-----	4414.2
pH	S.U.	4.00	3.95	4.06	3.96
pH	S.U.	7.00	6.97	7.08	6.96
pH	S.U.	10.00	11.05	10.10	10.04
ORP	mV	228.00	224.5	-----	237

Turbidity	Units	Standard	LaMotte SN 2491	LaMotte SN 2491	LaMotte SN 5503	LaMotte SN
	NTU	0.0	0.0	NC	0.04	NC
	NTU	1.0	0.91	NC	1.01	-----
	NTU	10.0	10.34	NC	10.07	-----

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

Project Plant McDonough *\*Include daily mid-day pH check\**  
 Field Staff J. Waguespack, D. Fulton, E. Rheans, J. Booth

Instrument Calibration

Parameter	Units	Standard	Date: 1/24/22		Date: 1/25/22	
			Time: 2:30	Time: 12:15	Time: 07:50	Time: 12:31
SmartROLL SN	SmartROLL SN	SmartROLL IPad #	SmartROLL SN	SmartROLL SN	SmartROLL IPad #	SmartROLL IPad #
DO	% saturation	100	100.13	-----	100.70	-----
Conductivity	us/cm	4490	4019.3	-----	3815.4	-----
pH	S.U.	4.00	4.03	4.01	4.03	4.06
pH	S.U.	7.00	7.08	7.06	7.13	7.09
pH	S.U.	10.00	10.09	10.07	10.08	10.08
ORP	mV	228.00	234.81	-----	214.6	-----

Turbidity	Units	Standard	LaMotte SN 229-260	LaMotte SN 727-702	LaMotte SN 727-702	LaMotte SN
	NTU	0.0	0.03	0.05	0.01	0.01
	NTU	1.0	1.07	1.10	1.06	1.07
	NTU	10.0	9.94	10.07	10.10	10.09

Parameter	Units	Standard	Date: 1/26/22		SmartROLL SN	SmartROLL IPad #
			Time: 07:57	Time: 17:00		
SmartROLL SN	SmartROLL SN	SmartROLL IPad #	SmartROLL SN	SmartROLL SN	SmartROLL IPad #	SmartROLL IPad #
DO	% saturation	100	98.17	-----	-----	-----
Conductivity	us/cm	4490	4584.2	-----	-----	-----
pH	S.U.	4.00	4.01	4.06	-----	-----
pH	S.U.	7.00	7.07	7.09	-----	-----
pH	S.U.	10.00	10.14	10.03	-----	-----
ORP	mV	228.00	238.9	-----	-----	-----

Turbidity	Units	Standard	LaMotte SN 229-260	LaMotte SN	LaMotte SN	LaMotte SN
	NTU	0.0	0.00	0.01	-----	-----
	NTU	1.0	1.06	1.03	-----	-----
	NTU	10.0	10.05	10.09	-----	-----

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

\*Include daily mid-day pH check\*

Project Plant McDonough  
 Field Staff J. Wagenspack, D. Fulton, E. Rheams, J. Booth

Instrument Calibration

Parameter	Units	Standard	Date: 1/14/22		Date: 1/14/22	
			Time: 11:30	Time: 12:50	Time: 08:10	Time: 12:50
DO	% saturation	100	SmartROLL SN 543335 iPad # 76	Mid-Day pH	SmartROLL SN 543335 iPad # 76	Mid-Day pH
DO	% saturation	100	96.17	-----	101.3	-----
Conductivity	us/cm	4490	2776.9	-----	6353.2	-----
pH	S.U.	4.00	4.17	-----	3.47	4.01
pH	-S.U.	7.00	7.77	-----	6.36	6.95
pH	S.U.	10.00	10.49	-----	9.77	10.09
ORP	mV	228.00	230.00	-----	242.6	-----

Turbidity	Units	Standard	LaMotte SN 2287-260	LaMotte SN 2287-260	LaMotte SN 2287-260	LaMotte SN 2287-260
	NTU	0.0	0.01	0.01	0.00	0.00
	NTU	1.0	1.10	1.10	1.10	1.04
	NTU	10.0	10.0	10.0	9.99	10.6

Parameter	Units	Standard	Date: 1/20/22		Date: 1/21/22	
			Time: 08:24	Time: 12:24	Time: 07:41	Time: 11:29
DO	% saturation	100	SmartROLL SN 543335 iPad # 76	Mid-Day pH	SmartROLL SN 543335 iPad # 76	Mid-Day pH
DO	% saturation	100	103.91	-----	101.01	-----
Conductivity	us/cm	4490	4537.7	-----	4501.2	-----
pH	S.U.	4.00	4.01	4.00	4.00	4.03
pH	S.U.	7.00	7.03	7.03	7.05	7.06
pH	S.U.	10.00	10.06	9.99	10.09	10.08
ORP	mV	228.00	219.4	-----	234.3	-----

Turbidity	Units	Standard	LaMotte SN 2287-260	LaMotte SN 2287-260	LaMotte SN 2287-260	LaMotte SN 2287-260
	NTU	0.0	0.0	0.01	0.01	0.01
	NTU	1.0	1.04	1.06	1.07	1.06
	NTU	10.0	10.0	10.0	10.05	10.09

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

**APPENDIX A**

**Instrument Calibration Forms  
June 2022**

Project: Flair McDonough  
 Field Staff: J. Wagunspack, C. Towell, J. Booth

\*Include daily mid-day pH check\*

Instrument Calibration

		Date:	6/6/22			
		Time:	3:00			
Parameter	Units	Standard	AquaTROLL SN <u>541227</u> iPad # _____	Mid-Day pH	AquaTROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100	100.0	.....		.....
Conductivity	us/cm	4400	4419.1	.....		.....
pH	S.U.	4.00	4.01			
pH	S.U.	7.00	7.01			
pH	S.U.	10.00	10.01			
ORP	mV	328.00	327.3	.....		.....

Turbidity	Units	Standard	Hach SN <u>12528104</u>	Hach SN	Hach SN	Hach SN
	NTU	20	20.7			
	NTU	100	98.0			
	NTU	800	791			
	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	4400		.....		.....
pH	S.U.	4.00				
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	328.00		.....		.....

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 - Nephelometric Turbidity Units; NC - Not calibrated

Project Plant McDonough *\*includes daily mid-day pH check\**  
 Field Staff J. Wequespack, C. Tidwell, J. Booth

Instrument Calibration

		Date: 6/6/22				
		Time: 8:22				
Parameter	Units	Standard	AquaTROLL SN 051911 iPad # 18	Mid-Day pH	AquaTROLL SN _____ iPad # _____	Mid-Day pH
DO	% saturation	100	101.33	-----		-----
Conductivity	us/cm	4490	4618.7	-----		-----
pH	S.U.	4.00	4.09			
pH	S.U.	7.00	7.05			
pH	S.U.	10.00	10.11			
ORP	mV	228.00	219.0	-----		-----

Turbidity	Units	Standard	Hash SN H850C10772	Hash SN	Hash SN	Hash SN
	NTU	20	19.7			
	NTU	100	100			
	NTU	800	775			
	NTU	10.0	10.5			

		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	Hash SN	Hash SN	Hash SN	Hash 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 - Nephelometric Turbidity Units; NC - Not calibrated



Project Plant McDonough  
 Field Staff J. Waquespack, C. Tidwell, J. Booth

\*include daily mid-day pH check\*

Instrument Calibration

		Date: 6-6-22		Date: 6-7-22	
		Time: 8:00		Time: 7:50	
Parameter	Units	Standard	AquaTROLL SN 837187 iPad # 99	Mid-Day pH	AquaTROLL SN 837187 iPad # 99
DO	% saturation	100	101.92	-----	105.13
Conductivity	us/cm	4480	4626	-----	4456
pH	S.U.	4.00	4.05	4.11	3.96
pH	S.U.	7.00	6.87	7.02	6.97
pH	S.U.	10.00	10.06	10.05	10.01
ORP	mV	228.00	219.5	-----	229.1

		Date: 6-7-22		Date: 6-7-22		
		Time: 8:00		Time: 8:00		
	Units	Standard	Hech SN 150401070	Hech SN 150401070	Hech SN	Hech SN
Turbidity	NTU	30	20.6	20.4		
	NTU	100	102	101		
	NTU	800	792	797		
	NTU	10.0	10.5	10.10		

		Date: 6/8/22		Date: 6/9/22	
		Time: 9:30		Time: 14:50	
Parameter	Units	Standard	AquaTROLL SN 837187 iPad # 72	Mid-Day pH	AquaTROLL SN 837187 iPad # 72
DO	% saturation	100	100.71	-----	102.57
Conductivity	us/cm	4480	4526.3	-----	4327.4
pH	S.U.	4.00	4.00		4.00
pH	S.U.	7.00	6.94		6.78
pH	S.U.	10.00	9.93		9.96
ORP	mV	228.00	232.4	-----	225.5

		Date: 6/8/22		Date: 6/9/22	
		Time: 9:30		Time: 14:50	
	Units	Standard	Hech SN 120101070	Hech SN	Hech SN 120101070
Turbidity	NTU	30	21.0		17.6
	NTU	100	101.0		102
	NTU	800	803		796
	NTU	10.0	9.00		7.91

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

\* DO minimal after 10 mins

**APPENDIX B**

**Laboratory Analytical Data, Data Validation Summaries  
and Laboratory Accreditation**

**APPENDIX B**

**Analytical Results  
September 2021**



October 22, 2021

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

RE: Project: MCDONOUGH UPGRADIENT  
Pace Project No.: 92560138

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 09, 2021 and September 10, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

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

Enclosures

cc: Stephen Benda  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power  
Kristen Jurinko  
J. Shelby Mobley  
Charles Norton, Southern Company  
Ms. Lauren Petty, Southern Company  
Dawn Prell, Golder Associates Inc.  
Tim Richards, Golder Associates - Atlanta



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## CERTIFICATIONS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92560138

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### Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Virginia/VELAP Certification #: 460221

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### Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804  
Florida/NELAP Certification #: E87648  
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40  
South Carolina Certification #: 99030001  
Virginia/VELAP Certification #: 460222

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### 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 UPGRADIENT  
Pace Project No.: 92560138

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92560138001	DGWA-71	Water	09/08/21 14:40	09/09/21 08:45
92560138002	DGWA-53	Water	09/09/21 12:29	09/10/21 17:40
92560138003	DGWA-70A	Water	09/09/21 14:56	09/10/21 17:40

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92560138

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92560138001	DGWA-71	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560138002	DGWA-53	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560138003	DGWA-70A	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

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### ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92560138

**Sample: DGWA-71**      **Lab ID: 92560138001**      Collected: 09/08/21 14:40      Received: 09/09/21 08:45      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/09/21 10:15		
pH	<b>5.76</b>	Std. Units			1		09/09/21 10:15		

**6010D ATL ICP**

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

Calcium	<b>6.1</b>	mg/L	1.0	0.12	1	09/11/21 09:00	09/13/21 16:43	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/11/21 09:00	09/14/21 19:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/11/21 09:00	09/14/21 19:08	7440-38-2	
Barium	<b>0.025</b>	mg/L	0.0050	0.00067	1	09/11/21 09:00	09/14/21 19:08	7440-39-3	
Beryllium	<b>0.000091J</b>	mg/L	0.00050	0.000054	1	09/11/21 09:00	09/14/21 19:08	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/11/21 09:00	09/14/21 19:08	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/11/21 09:00	09/14/21 19:08	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/11/21 09:00	09/14/21 19:08	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/11/21 09:00	09/14/21 19:08	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/11/21 09:00	09/14/21 19:08	7439-92-1	
Lithium	<b>0.0013J</b>	mg/L	0.030	0.00073	1	09/11/21 09:00	09/14/21 19:08	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/11/21 09:00	09/14/21 19:08	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/11/21 09:00	09/14/21 19:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/11/21 09:00	09/14/21 19:08	7440-28-0	

**7470 Mercury**

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

Mercury	<b>0.000096J</b>	mg/L	0.00020	0.000078	1	09/21/21 07:00	09/21/21 12:09	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>75.0</b>	mg/L	10.0	10.0	1		09/15/21 18:56		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>5.9</b>	mg/L	1.0	0.60	1		09/14/21 18:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/14/21 18:43	16984-48-8	
Sulfate	<b>6.1</b>	mg/L	1.0	0.50	1		09/14/21 18:43	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92560138

**Sample: DGWA-53**      **Lab ID: 92560138002**      Collected: 09/09/21 12:29      Received: 09/10/21 17:40      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		09/13/21 08:32		
pH	<b>6.41</b>	Std. Units			1		09/13/21 08:32		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>18.3</b>	mg/L	1.0	0.12	1	09/17/21 11:09	09/17/21 18:31	7440-70-2	M1
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B      Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/17/21 11:11	09/17/21 15:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/17/21 11:11	09/17/21 15:49	7440-38-2	
Barium	<b>0.099</b>	mg/L	0.0050	0.00067	1	09/17/21 11:11	09/17/21 15:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/17/21 11:11	09/17/21 15:49	7440-41-7	
Boron	<b>0.065</b>	mg/L	0.040	0.0086	1	09/17/21 11:11	09/17/21 15:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/17/21 11:11	09/17/21 15:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/17/21 11:11	09/17/21 15:49	7440-47-3	
Cobalt	<b>0.0064</b>	mg/L	0.0050	0.00039	1	09/17/21 11:11	09/17/21 15:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/17/21 11:11	09/17/21 15:49	7439-92-1	
Lithium	<b>0.0091J</b>	mg/L	0.030	0.00073	1	09/17/21 11:11	09/17/21 15:49	7439-93-2	
Molybdenum	<b>0.025</b>	mg/L	0.010	0.00074	1	09/17/21 11:11	09/17/21 15:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/17/21 11:11	09/17/21 15:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/17/21 11:11	09/17/21 15:49	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A      Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/21/21 07:00	09/21/21 12:17	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>131</b>	mg/L	10.0	10.0	1		09/15/21 18:58		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>1.8</b>	mg/L	1.0	0.60	1		09/15/21 05:52	16887-00-6	
Fluoride	<b>0.099J</b>	mg/L	0.10	0.050	1		09/15/21 05:52	16984-48-8	
Sulfate	<b>11.9</b>	mg/L	1.0	0.50	1		09/15/21 05:52	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92560138

**Sample: DGWA-70A**      **Lab ID: 92560138003**      Collected: 09/09/21 14:56      Received: 09/10/21 17:40      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/13/21 08:33		
pH	<b>5.50</b>	Std. Units			1		09/13/21 08:33		

**6010D ATL ICP**

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

Calcium	<b>5.3</b>	mg/L	1.0	0.12	1	09/17/21 11:09	09/17/21 19:00	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	<b>0.0015J</b>	mg/L	0.0030	0.00078	1	09/17/21 11:11	09/17/21 16:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/17/21 11:11	09/17/21 16:11	7440-38-2	
Barium	<b>0.038</b>	mg/L	0.0050	0.00067	1	09/17/21 11:11	09/17/21 16:11	7440-39-3	
Beryllium	<b>0.000089J</b>	mg/L	0.00050	0.000054	1	09/17/21 11:11	09/17/21 16:11	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/17/21 11:11	09/17/21 16:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/17/21 11:11	09/17/21 16:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/17/21 11:11	09/17/21 16:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/17/21 11:11	09/17/21 16:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/17/21 11:11	09/17/21 16:11	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/17/21 11:11	09/17/21 16:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/17/21 11:11	09/17/21 16:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/17/21 11:11	09/17/21 16:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/17/21 11:11	09/17/21 16:11	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 15:38	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>53.0</b>	mg/L	10.0	10.0	1		09/15/21 18:58		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>1.9</b>	mg/L	1.0	0.60	1		09/15/21 06:07	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 06:07	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/15/21 06:07	14808-79-8	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92560138

QC Batch: 646610

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560138001

METHOD BLANK: 3391819

Matrix: Water

Associated Lab Samples: 92560138001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/13/21 14:48	

LABORATORY CONTROL SAMPLE: 3391820

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3391821 3391822

Parameter	Units	92558259010		3391821		3391822		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Calcium	mg/L	1.4	1	1	2.5	2.5	106	109	75-125	1	20

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

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### QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92560138

QC Batch: 648035

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560138002, 92560138003

METHOD BLANK: 3398813

Matrix: Water

Associated Lab Samples: 92560138002, 92560138003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/17/21 18:21	

LABORATORY CONTROL SAMPLE: 3398814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3398815 3398816

Parameter	Units	3398815		3398816		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	18.3	1	1	18.8	19.3	57	102	75-125	2	20 M1

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92560138

QC Batch: 646612

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560138001

METHOD BLANK: 3391827

Matrix: Water

Associated Lab Samples: 92560138001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/14/21 17:25	
Arsenic	mg/L	ND	0.0050	0.0011	09/14/21 17:25	
Barium	mg/L	ND	0.0050	0.00067	09/14/21 17:25	
Beryllium	mg/L	ND	0.00050	0.000054	09/14/21 17:25	
Boron	mg/L	ND	0.040	0.0086	09/14/21 17:25	
Cadmium	mg/L	ND	0.00050	0.00011	09/14/21 17:25	
Chromium	mg/L	ND	0.0050	0.0011	09/14/21 17:25	
Cobalt	mg/L	ND	0.0050	0.00039	09/14/21 17:25	
Lead	mg/L	ND	0.0010	0.00089	09/14/21 17:25	
Lithium	mg/L	ND	0.030	0.00073	09/14/21 17:25	
Molybdenum	mg/L	ND	0.010	0.00074	09/14/21 17:25	
Selenium	mg/L	ND	0.0050	0.0014	09/14/21 17:25	
Thallium	mg/L	ND	0.0010	0.00018	09/14/21 17:25	

LABORATORY CONTROL SAMPLE: 3391828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.099	99	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.094	94	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.099	99	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.094	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3391829 3391830

Parameter	Units	92559417001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	100	98	75-125	1	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92560138

Parameter	Units	3391829		3391830		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92559417001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Barium	mg/L	0.028	0.1	0.1	0.13	0.13	98	99	75-125	0	20	
Beryllium	mg/L	0.00016J	0.1	0.1	0.097	0.099	97	98	75-125	2	20	
Boron	mg/L	1.2	1	1	2.3	2.5	92	116	75-125	10	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.098	101	98	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Lithium	mg/L	0.0014J	0.1	0.1	0.099	0.10	98	102	75-125	4	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	1	20	
Selenium	mg/L	0.021	0.1	0.1	0.12	0.12	100	101	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	2	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92560138

QC Batch:	648036	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560138002, 92560138003

METHOD BLANK: 3398822 Matrix: Water

Associated Lab Samples: 92560138002, 92560138003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/17/21 15:37	
Arsenic	mg/L	ND	0.0050	0.0011	09/17/21 15:37	
Barium	mg/L	ND	0.0050	0.00067	09/17/21 15:37	
Beryllium	mg/L	ND	0.00050	0.000054	09/17/21 15:37	
Boron	mg/L	ND	0.040	0.0086	09/17/21 15:37	
Cadmium	mg/L	ND	0.00050	0.00011	09/17/21 15:37	
Chromium	mg/L	ND	0.0050	0.0011	09/17/21 15:37	
Cobalt	mg/L	ND	0.0050	0.00039	09/17/21 15:37	
Lead	mg/L	ND	0.0010	0.00089	09/17/21 15:37	
Lithium	mg/L	ND	0.030	0.00073	09/17/21 15:37	
Molybdenum	mg/L	ND	0.010	0.00074	09/17/21 15:37	
Selenium	mg/L	ND	0.0050	0.0014	09/17/21 15:37	
Thallium	mg/L	ND	0.0010	0.00018	09/17/21 15:37	

LABORATORY CONTROL SAMPLE: 3398823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.097	97	80-120	
Boron	mg/L	1	1.0	101	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	0.10	101	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.094	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3398824 3398825

Parameter	Units	92560138002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	104	103	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	100	98	75-125	2	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92560138

Parameter	Units	3398824		3398825		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560138002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.099	0.1	0.1	0.21	0.20	114	102	75-125	6	20		
Beryllium	mg/L	ND	0.1	0.1	0.091	0.096	91	96	75-125	5	20		
Boron	mg/L	0.065	1	1	0.97	1.0	91	97	75-125	6	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	103	100	75-125	3	20		
Cobalt	mg/L	0.0064	0.1	0.1	0.11	0.10	105	98	75-125	7	20		
Lead	mg/L	ND	0.1	0.1	0.099	0.099	99	98	75-125	0	20		
Lithium	mg/L	0.0091J	0.1	0.1	0.10	0.11	94	99	75-125	5	20		
Molybdenum	mg/L	0.025	0.1	0.1	0.13	0.12	101	99	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.093	0.095	92	95	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20		

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**QUALITY CONTROL DATA**

Project: MCDONOUGH UPGRADIENT  
 Pace Project No.: 92560138

QC Batch: 648337 Analysis Method: EPA 7470A  
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92560138001, 92560138002

METHOD BLANK: 3400307 Matrix: Water  
 Associated Lab Samples: 92560138001, 92560138002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/21/21 12:04	

LABORATORY CONTROL SAMPLE: 3400308

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3400309 3400310

Parameter	Units	92561283001		3400310		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0026	0.0024	103	96	75-125	7	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH UPGRADIENT  
 Pace Project No.: 92560138

QC Batch: 649458	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560138003

METHOD BLANK: 3406292 Matrix: Water  
 Associated Lab Samples: 92560138003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/27/21 15:32	

LABORATORY CONTROL SAMPLE: 3406293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0028	113	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406294 3406295

Parameter	Units	3406294		3406295		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0027	0.0027	108	105	75-125	3	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH UPGRADIENT  
 Pace Project No.: 92560138

QC Batch: 647027 Analysis Method: SM 2540C-2011  
 QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92560138001, 92560138002, 92560138003

METHOD BLANK: 3393790 Matrix: Water  
 Associated Lab Samples: 92560138001, 92560138002, 92560138003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/15/21 18:56	

LABORATORY CONTROL SAMPLE: 3393791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	390	98	90-111	

SAMPLE DUPLICATE: 3393792

Parameter	Units	92560138001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	75.0	78.0	4	10	

SAMPLE DUPLICATE: 3393793

Parameter	Units	92560281005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	133	139	4	10	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92560138

QC Batch: 646605	Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92560138001

METHOD BLANK: 3391813 Matrix: Water

Associated Lab Samples: 92560138001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/13/21 00:59	
Fluoride	mg/L	ND	0.10	0.050	09/13/21 00:59	
Sulfate	mg/L	ND	1.0	0.50	09/13/21 00:59	

LABORATORY CONTROL SAMPLE: 3391814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.8	96	90-110	
Fluoride	mg/L	2.5	2.4	98	90-110	
Sulfate	mg/L	50	49.2	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3391815 3391816

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560365001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	8.8	50	50	50	60.2	60.8	103	104	90-110	1	10	
Fluoride	mg/L	0.12	2.5	2.5	2.5	2.7	2.8	104	105	90-110	1	10	
Sulfate	mg/L	11.1	50	50	50	63.3	63.9	104	106	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3391817 3391818

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560722009 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	186	50	50	50	233	234	94	96	90-110	0	10	
Fluoride	mg/L	0.24	2.5	2.5	2.5	2.9	2.9	107	108	90-110	1	10	
Sulfate	mg/L	168	50	50	50	189	190	41	43	90-110	1	10 M1	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92560138

QC Batch: 647162 Analysis Method: EPA 300.0 Rev 2.1 1993  
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92560138002, 92560138003

METHOD BLANK: 3394748 Matrix: Water

Associated Lab Samples: 92560138002, 92560138003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/14/21 22:53	
Fluoride	mg/L	ND	0.10	0.050	09/14/21 22:53	
Sulfate	mg/L	ND	1.0	0.50	09/14/21 22:53	

LABORATORY CONTROL SAMPLE: 3394749

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	2.4	97	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394750 3394751

Parameter	Units	92560938001		3394750		3394751		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec				
Chloride	mg/L	3.0	50	50	58.4	61.9	111	118	90-110	6	10 M1
Fluoride	mg/L	0.091J	2.5	2.5	3.4	3.5	131	134	90-110	2	10 M1
Sulfate	mg/L	33.4	50	50	88.5	91.8	110	117	90-110	4	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394752 3394753

Parameter	Units	92560676003		3394752		3394753		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec				
Chloride	mg/L	146	50	50	196	198	99	105	90-110	1	10
Fluoride	mg/L	0.29	2.5	2.5	4.9	4.8	184	179	90-110	2	10 M1
Sulfate	mg/L	140	50	50	193	195	105	109	90-110	1	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394754 3394755

Parameter	Units	92560676001		3394754		3394755		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec				
Chloride	mg/L	4.9	50	50	62.8	64.2	116	119	90-110	2	10 M1
Fluoride	mg/L	0.40	2.5	2.5	3.5	3.6	124	127	90-110	2	10 M1
Sulfate	mg/L	3.8	50	50	62.4	63.7	117	120	90-110	2	10 M1

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## QUALIFIERS

Project: MCDONOUGH UPGRADIENT  
Pace Project No.: 92560138

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: MCDONOUGH UPGRADIENT  
 Pace Project No.: 92560138

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560138001	DGWA-71				
92560138002	DGWA-53				
92560138003	DGWA-70A				
92560138001	DGWA-71	EPA 3010A	646610	EPA 6010D	646635
92560138002	DGWA-53	EPA 3010A	648035	EPA 6010D	648116
92560138003	DGWA-70A	EPA 3010A	648035	EPA 6010D	648116
92560138001	DGWA-71	EPA 3005A	646612	EPA 6020B	646637
92560138002	DGWA-53	EPA 3005A	648036	EPA 6020B	648158
92560138003	DGWA-70A	EPA 3005A	648036	EPA 6020B	648158
92560138001	DGWA-71	EPA 7470A	648337	EPA 7470A	648433
92560138002	DGWA-53	EPA 7470A	648337	EPA 7470A	648433
92560138003	DGWA-70A	EPA 7470A	649458	EPA 7470A	649537
92560138001	DGWA-71	SM 2540C-2011	647027		
92560138002	DGWA-53	SM 2540C-2011	647027		
92560138003	DGWA-70A	SM 2540C-2011	647027		
92560138001	DGWA-71	EPA 300.0 Rev 2.1 1993	646605		
92560138002	DGWA-53	EPA 300.0 Rev 2.1 1993	647162		
92560138003	DGWA-70A	EPA 300.0 Rev 2.1 1993	647162		

**REPORT OF LABORATORY ANALYSIS**

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Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Simple Condition  
USDA Receipt

Client Name:

*GA Power*

Project #:

WO#: 92560138

Courier:  Commercial  Fed Ex  UPS  USPS  Client  Pace  Other



Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: *9/9/24*

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Thermometer:  In Gun ID: *214* Type of Ice:  Dry  Blue  None

Yes  No  N/A

Cooler Temp: *2.6* Correction Factor: Add/Subtract (°C) *-0.1*

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): *2.5*

USDA Regulated Soil (  N/A, water sample)

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

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

Yes  No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		2.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		3.
Brush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		7.
Discussed analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		9.
-Includes Date/Time/ID/Analysis Matrix:	<i>W</i>		
Headspace in VOA Vial (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_

Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_

Date: \_\_\_\_\_





Document Name:  
 Sample Condition Upon Receipt (SCUR)  
 Document No.:  
 F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020  
 Page 2 of 2  
 Issuing Authority:  
 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, DRD/BD15 (water) GOC, LUNG

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

Project #

**WO# : 92560138**

PH: NMS

Due Date: 09/23/21

CLIENT: GR-GR Pauer

Bottle	BP01-125 ml, Plastic, Unpreserved (N/A) (D-)	BP01-125 ml, Plastic, Unpreserved (N/A)	BP01-500 ml, Plastic, Unpreserved (N/A)	BP11-1 liter Plastic, Unpreserved (N/A)	BP05-125 ml, Plastic HDPE (pH < 2) (D-)	BP05-125 ml, plastic HDPE (pH < 2)	BP02-125 ml, Plastic DI Acetate & NaOH (D-)	BP04-125 ml, Plastic NaOH (pH < 12) (D-)	W001P Wide mouthed Glass jar Unpreserved	AG11-1 liter Amber Unpreserved (N/A) (D-)	AG11-1 liter Amber HI (pH < 2)	AG03-125 ml, Amber Unpreserved (N/A) (D-)	AG13-1 liter Amber HDPE (pH < 2)	AG05-125 ml, Amber HDPE (pH < 2)	AG13-250ml-250 ml, Amber HDPE (N/A)(D-)	D001-40 ml, VOA HI (N/A)	V001-40 ml, VOA HDPE (N/A)	V001-40 ml, VOA Lerp (N/A)	S001-40 ml, VOA HDPE (N/A)	V001 (5 vials per bag) HDPE (N/A)	V101 (3 vials per bag) HDPE (N/A)	S011-125 ml, Sorbic Plastic (N/A - lab)	S011-250 ml, Sorbic Plastic (N/A - lab)	BP01-125 ml, Plastic (N/A)(D-)	A001-125 ml, Amber Unpreserved vials (N/A)	V001-20 ml, Sealed vials (N/A)	D001-40 ml, Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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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 DHEC Certification Office (i.e. Out of field, incorrect preservative, out of temp, incorrect containers).

*Signature*

**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All essential fields must be completed accurately.

Page 1 of 1

<b>Section 1: Requester Information</b>	<b>Section 2: Sample Information</b>	<b>Section 3: Analyst Information</b>
Agency: <u>Orange County Sheriff's Department</u> Request No.: <u>100-100000</u> Date: <u>9/9/21</u>	Report No.: <u>100-100000</u> Sample ID: <u>100-100000</u> Date of Collection: <u>9/9/21</u>	Analyst Name: <u>[Signature]</u> Analyst Title: <u>[Signature]</u> Date of Analysis: <u>9/9/21</u>

ITEM #	SAMPLE ID	DESCRIPTION	DATE	TIME	ANALYST	ANALYSIS TESTS				REMARKS
						GC/MS	GC	IR	DUPLICATE	
1	100-100000	...	9/9/21	8:11	ET/rod					
2	100-100000	...	9/9/21	8:10	ET/rod					
3	100-100000	...	9/9/21	8:10	ET/rod					
4	100-100000	...	9/9/21	8:10	ET/rod					
5	100-100000	...	9/9/21	8:10	ET/rod					
6	100-100000	...	9/9/21	8:10	ET/rod					
7	100-100000	...	9/9/21	8:10	ET/rod					
8	100-100000	...	9/9/21	8:10	ET/rod					
9	100-100000	...	9/9/21	8:10	ET/rod					
10	100-100000	...	9/9/21	8:10	ET/rod					
11	100-100000	...	9/9/21	8:10	ET/rod					
12	100-100000	...	9/9/21	8:10	ET/rod					
13	100-100000	...	9/9/21	8:10	ET/rod					
14	100-100000	...	9/9/21	8:10	ET/rod					
15	100-100000	...	9/9/21	8:10	ET/rod					

Orange County Sheriff's Department  
 Date: 9/9/21  
 Analyst: [Signature]



Laboratory receiving samples:

Atlanta  Eden  Greenwood  Hiram  Marietta  Mechanicsville  Atlanta  Kennesaw

Lab Instructions (from client)

Client Name: 1.2 Project 1707-1 Project # \_\_\_\_\_

Container:  Can  Can with cap  Lid  No lid  No lid  No lid  No lid

Condition: Sealed  Yes  No  No  No  No

Preservation Material:  Bubble wrap  Bubble wrap  None  Other

Temperature:  Ambient  Cold  Hot  None

Cooler Temp: 10 Correction Factor: 1

Cooler Temp (corrected): 10 USDA Regulated Soil  Yes  No

Do samples originate from a distance zone within the State of GA, VA, or SC (State Abbrev)?  Yes  No

Designated Person Learning Scenario: PT 11/1/10

Biological Inoculum Present?  Yes  No

Time should be added (minutes) to RTC  Yes  No

Do samples originate from a foreign source (International including Mexico and Puerto Rico)?  Yes  No

Comments/Discrepancy

Class of Contamination?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	1
Sample(s) analyzed within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	1
Open hold Time analysis (hrs) (1)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> No	1
Seal Turn Around Time (hours)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> No	1
Sufficient volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	2
Correct Container Label?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	4
Freeze Container Label?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	4
Container sealed?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	7
Procedural errors: Sample Field Process?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> No	8
Sample Label: Volume (CC)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	1
Analysis: Delay Time (min) Analysis: Matrix	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	
Lead time in with Vial(s) Sealed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> No	10
Top Label Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> No	11
Top Label: Seal with Sample Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	

COMPLETION/ISSUE/REVISIONS:  Yes  No

Printed on 10/18/2010

CLIENT SIGNATURE/REVISIONS

Person (initials) \_\_\_\_\_ Date/Time \_\_\_\_\_

Project Manager SCRU Reviewer \_\_\_\_\_ Date \_\_\_\_\_

Project Manager SRF Reviewer \_\_\_\_\_ Date \_\_\_\_\_



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

Project #

Exception: VOA, Coliform, FOC, B4 and General CWP/ROIS (water); DOC (LNG)

\*\*Bottom half of box is for lot number of bottles

Sample ID	Sample Description	Lot #	1	2	3	4	5	6	7	8	9	10	11	12	13	14
W001	125 ml Purified Water (preserved)	12345														
W002	125 ml Purified Water (preserved)	12345														
W003	125 ml Purified Water (preserved)	12345														
W004	125 ml Purified Water (preserved)	12345														
W005	125 ml Purified Water (preserved)	12345														
W006	125 ml Purified Water (preserved)	12345														
W007	125 ml Purified Water (preserved)	12345														
W008	125 ml Purified Water (preserved)	12345														
W009	125 ml Purified Water (preserved)	12345														
W010	125 ml Purified Water (preserved)	12345														
W011	125 ml Purified Water (preserved)	12345														
W012	125 ml Purified Water (preserved)	12345														
W013	125 ml Purified Water (preserved)	12345														
W014	125 ml Purified Water (preserved)	12345														
W015	125 ml Purified Water (preserved)	12345														
W016	125 ml Purified Water (preserved)	12345														
W017	125 ml Purified Water (preserved)	12345														
W018	125 ml Purified Water (preserved)	12345														
W019	125 ml Purified Water (preserved)	12345														
W020	125 ml Purified Water (preserved)	12345														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservation	pH upon receipt	Date preservation adjusted	Time preservation required	Amount of preservative added	Lot #

Note: Whenever there is a change in pH after long-term storage, a copy of this form is to be sent to the local or state DCM&C or Regional Office for out of state, in-state laboratories, out of temp. record retention.

# DEPARTMENT OF CUSTOMS & EXCISES REGULATORY FRAMEWORK

REGULATORY FRAMEWORK FOR THE DEPARTMENT OF CUSTOMS & EXCISES

Page 5 of 5

Regulatory Framework	Regulatory Framework	Regulatory Framework	Regulatory Framework	Regulatory Framework	Regulatory Framework	Regulatory Framework	Regulatory Framework	Regulatory Framework	Regulatory Framework		
<p><b>REGULATORY FRAMEWORK</b></p> <p>1. Regulatory Framework</p> <p>2. Regulatory Framework</p> <p>3. Regulatory Framework</p> <p>4. Regulatory Framework</p> <p>5. Regulatory Framework</p> <p>6. Regulatory Framework</p> <p>7. Regulatory Framework</p> <p>8. Regulatory Framework</p> <p>9. Regulatory Framework</p> <p>10. Regulatory Framework</p> <p>11. Regulatory Framework</p> <p>12. Regulatory Framework</p> <p>13. Regulatory Framework</p> <p>14. Regulatory Framework</p> <p>15. Regulatory Framework</p> <p>16. Regulatory Framework</p> <p>17. Regulatory Framework</p> <p>18. Regulatory Framework</p> <p>19. Regulatory Framework</p> <p>20. Regulatory Framework</p>		<p><b>REGULATORY FRAMEWORK</b></p> <p>21. Regulatory Framework</p> <p>22. Regulatory Framework</p> <p>23. Regulatory Framework</p> <p>24. Regulatory Framework</p> <p>25. Regulatory Framework</p> <p>26. Regulatory Framework</p> <p>27. Regulatory Framework</p> <p>28. Regulatory Framework</p> <p>29. Regulatory Framework</p> <p>30. Regulatory Framework</p>		<p><b>REGULATORY FRAMEWORK</b></p> <p>31. Regulatory Framework</p> <p>32. Regulatory Framework</p> <p>33. Regulatory Framework</p> <p>34. Regulatory Framework</p> <p>35. Regulatory Framework</p> <p>36. Regulatory Framework</p> <p>37. Regulatory Framework</p> <p>38. Regulatory Framework</p> <p>39. Regulatory Framework</p> <p>40. Regulatory Framework</p>		<p><b>REGULATORY FRAMEWORK</b></p> <p>41. Regulatory Framework</p> <p>42. Regulatory Framework</p> <p>43. Regulatory Framework</p> <p>44. Regulatory Framework</p> <p>45. Regulatory Framework</p> <p>46. Regulatory Framework</p> <p>47. Regulatory Framework</p> <p>48. Regulatory Framework</p> <p>49. Regulatory Framework</p> <p>50. Regulatory Framework</p>		<p><b>REGULATORY FRAMEWORK</b></p> <p>51. Regulatory Framework</p> <p>52. Regulatory Framework</p> <p>53. Regulatory Framework</p> <p>54. Regulatory Framework</p> <p>55. Regulatory Framework</p> <p>56. Regulatory Framework</p> <p>57. Regulatory Framework</p> <p>58. Regulatory Framework</p> <p>59. Regulatory Framework</p> <p>60. Regulatory Framework</p>		<p><b>REGULATORY FRAMEWORK</b></p> <p>61. Regulatory Framework</p> <p>62. Regulatory Framework</p> <p>63. Regulatory Framework</p> <p>64. Regulatory Framework</p> <p>65. Regulatory Framework</p> <p>66. Regulatory Framework</p> <p>67. Regulatory Framework</p> <p>68. Regulatory Framework</p> <p>69. Regulatory Framework</p> <p>70. Regulatory Framework</p>	

Side Request 9/1/11



October 22, 2021

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

RE: Project: MCDONOUGH UPGRADIENT RADS  
Pace Project No.: 92560136

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 09, 2021 and September 10, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

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

Enclosures

cc: Stephen Benda  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power  
Kristen Jurinko  
J. Shelby Mobley  
Charles Norton, Southern Company  
Ms. Lauren Petty, Southern Company  
Dawn Prell, Golder Associates Inc.  
Tim Richards, Golder Associates - Atlanta



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MCDONOUGH UPGRADIENT RADS  
Pace Project No.: 92560136

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### Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 04222CA  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
Delaware Certification  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Florida: Cert E871149 SEKS WET  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas/TNI Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA180012  
Louisiana DEQ/TNI Certification #: 4086  
Maine Certification #: 2017020  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572018-1  
New Hampshire/TNI Certification #: 297617  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-010  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: 02867  
Texas/TNI Certification #: T104704188-17-3  
Utah/TNI Certification #: PA014572017-9  
USDA Soil Permit #: P330-17-00091  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 9526  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad  
Wyoming Certification #: 8TMS-L

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: MCDONOUGH UPGRADIENT RADS  
Pace Project No.: 92560136

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92560136001	DGWA-71	Water	09/08/21 14:40	09/09/21 08:45
92560136002	DGWA-53	Water	09/09/21 12:29	09/10/21 17:40
92560136003	DGWA-70A	Water	09/09/21 14:56	09/10/21 17:40

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92560136

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92560136001	DGWA-71	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560136002	DGWA-53	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560136003	DGWA-70A	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92560136

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWA-71</b> <b>Lab ID: 92560136001</b> Collected: 09/08/21 14:40      Received: 09/09/21 08:45      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0510 ± 0.152 (0.378)</b> <b>C:99% T:NA</b>	pCi/L	10/06/21 12:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>-0.185 ± 0.324 (0.789)</b> <b>C:67% T:102%</b>	pCi/L	10/04/21 15:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.0510 ± 0.476 (1.17)</b>	pCi/L	10/07/21 15:34	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92560136

**Sample: DGWA-53**      **Lab ID: 92560136002**      Collected: 09/09/21 12:29      Received: 09/10/21 17:40      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	<b>1.42 ± 0.444 (0.373)</b> <b>C:94% T:NA</b>	pCi/L	10/06/21 08:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.30 ± 0.523 (0.809)</b> <b>C:66% T:86%</b>	pCi/L	10/04/21 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.72 ± 0.967 (1.18)</b>	pCi/L	10/06/21 15:27	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92560136

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWA-70A</b> <b>Lab ID: 92560136003</b> Collected: 09/09/21 14:56      Received: 09/10/21 17:40      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>-0.0648 ± 0.150 (0.456)</b> <b>C:97% T:NA</b>	pCi/L	10/06/21 08:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.779 ± 0.425 (0.759)</b> <b>C:67% T:90%</b>	pCi/L	10/04/21 14:59	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.779 ± 0.575 (1.22)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92560136

QC Batch: 465345

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560136001

METHOD BLANK: 2247073

Matrix: Water

Associated Lab Samples: 92560136001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.306 ± 0.283 (0.572) C:72% T:95%	pCi/L	10/04/21 11:58	

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

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92560136

QC Batch: 465347

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560136001

METHOD BLANK: 2247077

Matrix: Water

Associated Lab Samples: 92560136001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0279 ± 0.217 (0.589) C:92% T:NA	pCi/L	10/06/21 12:00	

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

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92560136

QC Batch: 465343

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560136002, 92560136003

METHOD BLANK: 2247069

Matrix: Water

Associated Lab Samples: 92560136002, 92560136003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.209 ± 0.287 (0.612) C:69% T:89%	pCi/L	10/04/21 11:58	

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

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92560136

QC Batch: 465344

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560136002, 92560136003

METHOD BLANK: 2247072

Matrix: Water

Associated Lab Samples: 92560136002, 92560136003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00717 ± 0.168 (0.443) C:96% T:NA	pCi/L	10/06/21 08:19	

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

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## QUALIFIERS

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92560136

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH UPGRADIENT RADS

Pace Project No.: 92560136

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560136001	DGWA-71	EPA 9315	465347		
92560136002	DGWA-53	EPA 9315	465344		
92560136003	DGWA-70A	EPA 9315	465344		
92560136001	DGWA-71	EPA 9320	465345		
92560136002	DGWA-53	EPA 9320	465343		
92560136003	DGWA-70A	EPA 9320	465343		
92560136001	DGWA-71	Total Radium Calculation	467213		
92560136002	DGWA-53	Total Radium Calculation	467011		
92560136003	DGWA-70A	Total Radium Calculation	467011		

### REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Simple Condition Upon Receipt

Client Name: GA Power Project: **WO# : 92560136**

Courier:  Commercial  Fed Ex  UPS  USPS  Client  Pace  Other: \_\_\_\_\_



Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/14/21 LM

Packing Material:  Bubble Wrap  Bubble Bags  Stone  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  In  Out ID: 214 Type of Ice:  Clear  Blue  None

Cooler Temp: 2-6 Conversion Factor: Add/Subtract (°C) -0.1

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

Cooler Temp Corrected (°C): 2.5

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

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

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

COMMENTS/SAMPLE DISCREPANCY Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_



Document Name:  
 Sample Condition Upon Receipt (SCUR)  
 Document No.1:  
 F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020  
 Page 2 of 2  
 Issuing Authority:  
 Pace Carolina's Quality Office

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRG/RO15 (water) DOC, LUPG

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

Project #

**WO# : 92560136**

PH: NPG

Due Date: 09/30/21

CLIENT: GR-GR Power

Row #	Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #
1	BP40-125 ml Plastic Unpreserved (N/A) (C-1)						
2	BP50-250 ml Plastic Unpreserved (N/A)						
3	BP70-500 ml Plastic Unpreserved (N/A)						
4	BP93-1 liter Plastic Unpreserved (N/A)						
5	BP45-125 ml Plastic H2SO4 (pH < 2) (C-1)						
6	BP70-250 ml plastic HNO3 (pH < 2)						
7	BP42-125 ml Plastic 2N Acetic & NaOH (C-1)						
8	BP42-125 ml Plastic NaOH (pH < 12) (C-1)						
9	WSPU 1000 ml modified Glass jar Unpreserved						
10	A4500-1 liter Amber Unpreserved (N/A) (C-1)						
11	A4500-1 liter Amber 1N (pH < 2)						
12	A4500-250 ml Amber Unpreserved (N/A) (C-1)						
13	A4500-1 liter Amber H2SO4 (pH < 2)						
14	A4500-250 ml Amber H2SO4 (pH < 2)						
15	A4500(250ml)-250 ml Amber HNO3 (H2SO4)						
16	D4001-40 ml VOA HCl (N/A)						
17	V4001-40 ml VOA Na2S2O3 (N/A)						
18	V4001-40 ml VOA Urp (N/A)						
19	D4001-40 ml VOA H2PO4 (N/A)						
20	V4001 (6 vials per 100-5015 lot) (N/A)						
21	V4001 (3 vials per 100-5015/5016 lot) (N/A)						
22	D4001-125 ml Sterile Plastic (N/A - Lab)						
23	D4001-250 ml Sterile Plastic (N/A - Lab)						
24	BP50-250 ml Plastic (N/A) (B-1-B-7)						
25	A4500-250 ml Amber Unpreserved vials (N/A)						
26	V4001-20 ml Corrosion vials (N/A)						
27	D4001-40 ml Amber Unpreserved vials (N/A)						

**pH Adjustment Log for Preserved Samples**

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

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

*Revised*

# 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

<b>Section 1</b> Requestor Name: _____ Requestor Title: _____ Requestor Phone: _____ Requestor Email: _____ Requestor Address: _____ Requestor City/State/Zip: _____		<b>Section 2</b> Requested Project Information Request No.: _____ Date: _____ Requested By: _____ Requested Date: _____		<b>Section 3</b> Sample Information Sample ID: _____ Sample Name: _____ Sample Description: _____ Sample Date: _____	
<b>Section 4</b> Chain of Custody Name: _____ Title: _____ Signature: _____ Date: _____		<b>Section 5</b> Chain of Custody Name: _____ Title: _____ Signature: _____ Date: _____		<b>Section 6</b> Chain of Custody Name: _____ Title: _____ Signature: _____ Date: _____	
<b>Section 7</b> Sample ID: _____ Description: _____ Date: _____		<b>Section 8</b> Analysis Test Test Name: _____ Test Description: _____		<b>Section 9</b> Storage Location Location: _____	
<b>Section 10</b> Additional Comments _____		<b>Section 11</b> Signature of Analyst Name: _____ Title: _____ Signature: _____ Date: _____		<b>Section 12</b> Signature of Custodian Name: _____ Title: _____ Signature: _____ Date: _____	



Laboratory receiving samples:

Atlanta  Eden  Greenwood  Hiram  Marietta  Mechanicsville  Atlanta  Kennesaw

Lab Instructions (from client)

Client Name: 1.2 Project 1707-1 Project # \_\_\_\_\_

Coverer:  Lead  Tech  Lab  Other   
 Call Name  Print  Order \_\_\_\_\_

Container Sealed/Opened?  Yes  No Seal Intact?  Yes  No

Packing Material:  Bubble wrap  Bubble bags  None  Other \_\_\_\_\_

Thermometer:  In Car  In Lab  
 ID: 230 Type of use:  Other  None

Cooler Temp: 1.0 Correction Factor: 0.1  
 Additional (°C): \_\_\_\_\_

Time should be noted (printing is UTC)  
 Sum data out of the normal (samples or ice cooling process) for logs

Cooler Temp (corrected) 0.9  
 USDA Regulated Soil  Yes  No

Do samples originate from a jurisdiction (state within the United States, CA, HI, or DC) (check state)?  Yes  No  
 Do samples originate from a foreign source (international including Hawaii and Puerto Rico)?  Yes  No

Check of Logbook Entries	Yes	No	NA	
Sample(s) arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Open hold Time analysis (if N/A)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1
Seal Fully Documented (Pace Required)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1
Sufficient volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2
Correct Container Label?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4
Freeze Container Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4
Container Sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
Procedures followed: Sample Field Process?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8
Sample Label, Volume (CC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Time (date, Day, Time) of Analysis (Min)	<u>10/17/10</u>			
Head (date or with Value) of Sample?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10
Top Label Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11
Top Label (date with Value) Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Container Sealed/Opened?  Yes  No

CLIENT SIGNATURE/REVISION \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Person (initials) \_\_\_\_\_ Date/Time \_\_\_\_\_

Project Manager SCRU Reviewer \_\_\_\_\_ Date \_\_\_\_\_  
 Project Manager SRF Reviewer \_\_\_\_\_ Date \_\_\_\_\_



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

Exception: VOA Coliform, FOC, B4 and Gamma GPD/BDLS (water); DOC (LNG)

\*\*Bottom half of box is for lot number of bottles

Project #

Sample ID	Type of Preservation	pH upon receipt	Date preservation adjusted	Time preservation required	Amount of preservative added	Lot #
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservation	pH upon receipt	Date preservation adjusted	Time preservation required	Amount of preservative added	Lot #

Note: Whenever there is a change in pH after 15 minutes, a copy of this form is to be sent to the local or state DCM&Cm Regulatory Office out of state. In-state laboratories out of state. In-state laboratories

DEPARTMENT OF CUSTOMS AND EXCISES (DCA) - REGULATORY REQUIREMENTS

Item No.	Item Description	Quantity	Unit	Value	Remarks
1	...	...	...	...	...
2	...	...	...	...	...
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Side Payment 9/1/11

9/1/11

100



### Quality Control Sample Performance Assessment

Assess: How Many Units are Produced/Inspected/Returned

Item	Actual	Target	Score
Number of units produced	2000	1500	2
Number of units inspected	1500	1000	3
Number of units returned	500	1000	2
Number of units inspected	1500	1000	3
Number of units returned	500	1000	2

Overall Assessment:   
 - The production volume is significantly above target, indicating high capacity utilization.   
 - The inspection volume is also above target, suggesting a focus on quality control.   
 - The return volume is below target, which is a positive indicator of product quality.   
 - The overall performance is strong, with scores of 2 and 3 across various metrics.

Item	Actual	Target	Score
Number of units produced	2000	1500	2
Number of units inspected	1500	1000	3
Number of units returned	500	1000	2
Number of units inspected	1500	1000	3
Number of units returned	500	1000	2

Overall Assessment:   
 - The production volume is significantly above target, indicating high capacity utilization.   
 - The inspection volume is also above target, suggesting a focus on quality control.   
 - The return volume is below target, which is a positive indicator of product quality.   
 - The overall performance is strong, with scores of 2 and 3 across various metrics.

Item	Actual	Target	Score
Number of units produced	2000	1500	2
Number of units inspected	1500	1000	3
Number of units returned	500	1000	2
Number of units inspected	1500	1000	3
Number of units returned	500	1000	2

Overall Assessment:   
 - The production volume is significantly above target, indicating high capacity utilization.   
 - The inspection volume is also above target, suggesting a focus on quality control.   
 - The return volume is below target, which is a positive indicator of product quality.   
 - The overall performance is strong, with scores of 2 and 3 across various metrics.

Item	Actual	Target	Score
Number of units produced	2000	1500	2
Number of units inspected	1500	1000	3
Number of units returned	500	1000	2
Number of units inspected	1500	1000	3
Number of units returned	500	1000	2

Overall Assessment:   
 - The production volume is significantly above target, indicating high capacity utilization.   
 - The inspection volume is also above target, suggesting a focus on quality control.   
 - The return volume is below target, which is a positive indicator of product quality.   
 - The overall performance is strong, with scores of 2 and 3 across various metrics.

Overall Assessment:   
 The production volume is significantly above target, indicating high capacity utilization. The inspection volume is also above target, suggesting a focus on quality control. The return volume is below target, which is a positive indicator of product quality. The overall performance is strong, with scores of 2 and 3 across various metrics.

Number of units produced: 2000  
Number of units inspected: 1500  
Number of units returned: 500



### Quality Control Sample Performance Assessment

Additional Manual Entries for All Fields Multiplied in Yellow.

Table  
 Date: 10/11/2008  
 Page: 23 of 24  
 Author: [Name]

Sample Name	Location	Date	Time	Status	Notes	Comments
...	...	...	...	...	...	...
...	...	...	...	...	...	...

...	...	...	...	...
-----	-----	-----	-----	-----

Sample Name	Location	Date	Time	Status	Notes	Comments
...	...	...	...	...	...	...

...	...	...	...	...
-----	-----	-----	-----	-----

At the moment of data entry, all the multiplied fields are highlighted in Yellow.

Assessment

2008

### Quality Control Sample Performance Assessment

Annual Mail Mismatch Letter for 1991, published in January



Year: 1991  
 Agency: Health Services  
 MCHHS #: 3200  
 Address: 3200

Method/Block	Number	Pass	Fail
Mail Mismatch	100	100	0
Mail Delivery	100	100	0
Mail Content	100	100	0
Mail Address	100	100	0
Mail Postmark	100	100	0

Method/Block	Number	Pass	Fail
Mail Mismatch	100	100	0
Mail Delivery	100	100	0
Mail Content	100	100	0
Mail Address	100	100	0
Mail Postmark	100	100	0

Method/Block	Number	Pass	Fail
Mail Mismatch	100	100	0
Mail Delivery	100	100	0
Mail Content	100	100	0
Mail Address	100	100	0
Mail Postmark	100	100	0

Mail Mismatch Letter for 1991, published in January

Comments:

**Method/Block** Mail Mismatch  
**Number** 100  
**Pass** 100  
**Fail** 0  
**Comments:** All 100 samples were correct.

**Method/Block** Mail Delivery  
**Number** 100  
**Pass** 100  
**Fail** 0  
**Comments:** All 100 samples were correct.

**Method/Block** Mail Content  
**Number** 100  
**Pass** 100  
**Fail** 0  
**Comments:** All 100 samples were correct.

**Method/Block** Mail Address  
**Number** 100  
**Pass** 100  
**Fail** 0  
**Comments:** All 100 samples were correct.

**Method/Block** Mail Postmark  
**Number** 100  
**Pass** 100  
**Fail** 0  
**Comments:** All 100 samples were correct.

**Method/Block** Mail Mismatch  
**Number** 100  
**Pass** 100  
**Fail** 0  
**Comments:** All 100 samples were correct.

**Method/Block** Mail Delivery  
**Number** 100  
**Pass** 100  
**Fail** 0  
**Comments:** All 100 samples were correct.

**Method/Block** Mail Content  
**Number** 100  
**Pass** 100  
**Fail** 0  
**Comments:** All 100 samples were correct.

**Method/Block** Mail Address  
**Number** 100  
**Pass** 100  
**Fail** 0  
**Comments:** All 100 samples were correct.

**Method/Block** Mail Postmark  
**Number** 100  
**Pass** 100  
**Fail** 0  
**Comments:** All 100 samples were correct.

*(Handwritten note)*  
 1/10/91

### Quality Control Sample Performance Assessment

Project: **Math: Master's Exploratory Assessment of Math**

Assessment	Item	Score	Comments	Grade	Notes
<p><b>Math: Master's Exploratory Assessment of Math</b></p> <p>Item 1: <b>Area of a Triangle</b></p> <p>Directions: Find the area of the triangle.</p> <p>Base = 12 units Height = 8 units</p>	1	100%	Correct	4	
	2	100%	Correct	4	
<p><b>Math: Master's Exploratory Assessment of Math</b></p> <p>Item 2: <b>Volume of a Cylinder</b></p> <p>Directions: Find the volume of the cylinder.</p> <p>Radius = 3 units Height = 10 units</p>	1	100%	Correct	4	
	2	100%	Correct	4	
<p><b>Math: Master's Exploratory Assessment of Math</b></p> <p>Item 3: <b>Area of a Composite Figure</b></p> <p>Directions: Find the area of the composite figure.</p> <p>Base = 10 units Height = 6 units</p>	1	100%	Correct	4	
	2	100%	Correct	4	
<p><b>Math: Master's Exploratory Assessment of Math</b></p> <p>Item 4: <b>Surface Area of a Rectangular Prism</b></p> <p>Directions: Find the surface area of the rectangular prism.</p> <p>Length = 5 units Width = 3 units Height = 4 units</p>	1	100%	Correct	4	
	2	100%	Correct	4	

Math: Master's Exploratory Assessment of Math

4th Grade

100%

100%



October 22, 2021

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

RE: Project: MCDONOUGH AP-2/3/4  
Pace Project No.: 92560774

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 10, 2021 and September 14, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

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

Enclosures

cc: Stephen Benda  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power  
Kristen Jurinko  
J. Shelby Mobley  
Charles Norton, Southern Company  
Ms. Lauren Petty, Southern Company  
Dawn Prell, Golder Associates Inc.  
Tim Richards, Golder Associates - Atlanta



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

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### Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Virginia/VELAP Certification #: 460221

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### Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804  
Florida/NELAP Certification #: E87648  
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40  
South Carolina Certification #: 99030001  
Virginia/VELAP Certification #: 460222

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### 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

Pace Project No.: 92560774

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92560774001	DGWC-2	Water	09/09/21 13:10	09/10/21 17:40
92560774002	DGWC-11	Water	09/09/21 09:55	09/10/21 17:40
92560774003	DGWC-12	Water	09/09/21 14:25	09/10/21 17:40
92560774004	DGWC-13	Water	09/09/21 15:10	09/10/21 17:40
92560774005	DGWC-14	Water	09/09/21 15:50	09/10/21 17:40
92560774006	DGWC-15	Water	09/09/21 13:49	09/10/21 17:40
92560774007	DGWC-19	Water	09/09/21 15:48	09/10/21 17:40
92560774008	DGWC-21	Water	09/09/21 12:43	09/10/21 17:40
92560774009	DGWC-23	Water	09/09/21 12:15	09/10/21 17:40
92560774010	EB-1	Water	09/09/21 16:40	09/10/21 17:40
92560774011	FB-1	Water	09/09/21 13:40	09/10/21 17:40
92560774012	DGWC-4	Water	09/10/21 11:08	09/10/21 17:40
92560774013	DGWC-5	Water	09/10/21 14:32	09/10/21 17:40
92560774014	DUP-2	Water	09/10/21 00:00	09/10/21 17:40
92560774015	DGWC-9	Water	09/10/21 11:32	09/10/21 17:40
92560774016	FB-2	Water	09/10/21 11:00	09/10/21 17:40
92560774017	DGWC-10	Water	09/10/21 13:30	09/10/21 17:40
92560774018	DGWC-20	Water	09/10/21 12:48	09/10/21 17:40
92560774019	DGWC-22	Water	09/10/21 12:58	09/10/21 17:40
92560774020	DGWC-47	Water	09/10/21 11:00	09/10/21 17:40
92560774021	DGWC-48	Water	09/10/21 10:56	09/10/21 17:40
92560774022	DUP-1	Water	09/10/21 00:00	09/10/21 17:40
92560774023	EB-2	Water	09/10/21 10:35	09/10/21 17:40
92560774024	DGWC-8	Water	09/13/21 11:00	09/14/21 09:35
92560774025	DGWC-17	Water	09/13/21 11:04	09/14/21 09:35
92560774026	DGWC-42	Water	09/13/21 15:00	09/14/21 09:35

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH AP-2/3/4  
 Pace Project No.: 92560774

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92560774001	DGWC-2	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560774002	DGWC-11	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560774003	DGWC-12	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560774004	DGWC-13	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560774005	DGWC-14	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560774006	DGWC-15	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560774007	DGWC-19	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560774008	DGWC-21	EPA 6010D	DRB	1
		EPA 6020B	CW1	13

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92560774009	DGWC-23	EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560774010	EB-1	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
92560774011	FB-1	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92560774012	DGWC-4	SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560774013	DGWC-5	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
92560774014	DUP-2	EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560774015	DGWC-9	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92560774016	FB-2	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560774017	DGWC-10	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560774018	DGWC-20	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560774019	DGWC-22	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560774020	DGWC-47	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560774021	DGWC-48	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560774022	DUP-1	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560774023	EB-2	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92560774024	DGWC-8	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560774025	DGWC-17	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
92560774026	DGWC-42	EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

**Sample: DGWC-2**      **Lab ID: 92560774001**      Collected: 09/09/21 13:10      Received: 09/10/21 17:40      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/13/21 10:05		
pH	<b>6.00</b>	Std. Units			1		09/13/21 10:05		

**6010D ATL ICP**

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

Calcium	<b>42.0</b>	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 17:37	7440-70-2	M1
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 11:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 11:21	7440-38-2	
Barium	<b>0.022</b>	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 11:21	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 11:21	7440-41-7	
Boron	<b>0.51</b>	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 11:21	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 11:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 11:21	7440-47-3	
Cobalt	<b>0.0048J</b>	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 11:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 11:21	7439-92-1	
Lithium	<b>0.024J</b>	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 11:21	7439-93-2	
Molybdenum	<b>0.0023J</b>	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 11:21	7439-98-7	
Selenium	<b>0.0031J</b>	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 11:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 11:21	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 15:48	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>260</b>	mg/L	10.0	10.0	1		09/16/21 14:33		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>2.1</b>	mg/L	1.0	0.60	1		09/15/21 09:13	16887-00-6	
Fluoride	<b>0.053J</b>	mg/L	0.10	0.050	1		09/15/21 09:13	16984-48-8	
Sulfate	<b>110</b>	mg/L	2.0	1.0	2		09/15/21 19:02	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4  
 Pace Project No.: 92560774

**Sample: DGWC-11**      **Lab ID: 92560774002**      Collected: 09/09/21 09:55      Received: 09/10/21 17:40      Matrix: Water

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

Analytical Method:  
 Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/13/21 10:05		
pH	<b>5.59</b>	Std. Units			1		09/13/21 10:05		

**6010D ATL ICP**

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

Calcium	<b>66.8</b>	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 17:56	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 11:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 11:44	7440-38-2	
Barium	<b>0.054</b>	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 11:44	7440-39-3	
Beryllium	<b>0.00013J</b>	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 11:44	7440-41-7	
Boron	<b>1.5</b>	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 11:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 11:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 11:44	7440-47-3	
Cobalt	<b>0.00081J</b>	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 11:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 11:44	7439-92-1	
Lithium	<b>0.0029J</b>	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 11:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 11:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 11:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 11:44	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	0.000078	1	09/24/21 09:45	09/27/21 15:51	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
 Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>433</b>	mg/L	10.0	10.0	1		09/16/21 14:33		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
 Pace Analytical Services - Asheville

Chloride	<b>13.6</b>	mg/L	1.0	0.60	1		09/15/21 09:28	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 09:28	16984-48-8	
Sulfate	<b>247</b>	mg/L	6.0	3.0	6		09/15/21 19:18	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

**Sample: DGWC-12**      **Lab ID: 92560774003**      Collected: 09/09/21 14:25      Received: 09/10/21 17:40      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/13/21 10:05		
pH	<b>6.07</b>	Std. Units			1		09/13/21 10:05		

**6010D ATL ICP**

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

Calcium	<b>29.2</b>	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 18:11	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 11:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 11:49	7440-38-2	
Barium	<b>0.040</b>	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 11:49	7440-39-3	
Beryllium	<b>0.000084J</b>	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 11:49	7440-41-7	
Boron	<b>2.0</b>	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 11:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 11:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 11:49	7440-47-3	
Cobalt	<b>0.034</b>	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 11:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 11:49	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 11:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 11:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 11:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 11:49	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	0.000078	1	09/24/21 09:45	09/27/21 15:53	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>275</b>	mg/L	10.0	10.0	1		09/16/21 14:33		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>8.5</b>	mg/L	1.0	0.60	1		09/15/21 09:44	16887-00-6	
Fluoride	<b>0.099J</b>	mg/L	0.10	0.050	1		09/15/21 09:44	16984-48-8	
Sulfate	<b>126</b>	mg/L	3.0	1.5	3		09/15/21 19:34	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

**Sample: DGWC-13**      **Lab ID: 92560774004**      Collected: 09/09/21 15:10      Received: 09/10/21 17:40      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/13/21 10:05		
pH	<b>5.69</b>	Std. Units			1		09/13/21 10:05		

**6010D ATL ICP**

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

Calcium	<b>38.2</b>	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 18:16	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 11:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 11:55	7440-38-2	
Barium	<b>0.027</b>	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 11:55	7440-39-3	
Beryllium	<b>0.000070J</b>	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 11:55	7440-41-7	
Boron	<b>0.62</b>	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 11:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 11:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 11:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 11:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 11:55	7439-92-1	
Lithium	<b>0.0036J</b>	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 11:55	7439-93-2	
Molybdenum	<b>0.011</b>	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 11:55	7439-98-7	
Selenium	<b>0.0060</b>	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 11:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 11:55	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	0.000078	1	09/24/21 09:45	09/27/21 15:56	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>246</b>	mg/L	10.0	10.0	1		09/16/21 14:33		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>12.9</b>	mg/L	1.0	0.60	1		09/15/21 09:59	16887-00-6	
Fluoride	<b>0.083J</b>	mg/L	0.10	0.050	1		09/15/21 09:59	16984-48-8	
Sulfate	<b>127</b>	mg/L	3.0	1.5	3		09/15/21 19:49	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4  
 Pace Project No.: 92560774

**Sample: DGWC-14**      **Lab ID: 92560774005**      Collected: 09/09/21 15:50      Received: 09/10/21 17:40      Matrix: Water

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

Analytical Method:  
 Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/13/21 10:06		
pH	<b>5.70</b>	Std. Units			1		09/13/21 10:06		

**6010D ATL ICP**

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

Calcium	<b>11.1</b>	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 18:21	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 12:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:15	7440-38-2	
Barium	<b>0.059</b>	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 12:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 12:15	7440-41-7	
Boron	<b>0.080</b>	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 12:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 12:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 12:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 12:15	7439-92-1	
Lithium	<b>0.0044J</b>	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 12:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 12:15	7439-98-7	
Selenium	<b>0.0017J</b>	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 12:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 12:15	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	0.000078	1	09/24/21 09:45	09/27/21 16:07	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
 Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>99.0</b>	mg/L	10.0	10.0	1		09/16/21 14:33		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
 Pace Analytical Services - Asheville

Chloride	<b>3.3</b>	mg/L	1.0	0.60	1		09/15/21 10:15	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 10:15	16984-48-8	
Sulfate	<b>42.3</b>	mg/L	1.0	0.50	1		09/15/21 10:15	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

**Sample: DGWC-15**      **Lab ID: 92560774006**      Collected: 09/09/21 13:49      Received: 09/10/21 17:40      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/13/21 10:06		
pH	<b>5.83</b>	Std. Units			1		09/13/21 10:06		

**6010D ATL ICP**

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

Calcium	<b>34.4</b>	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 18:25	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 12:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:20	7440-38-2	
Barium	<b>0.041</b>	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 12:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 12:20	7440-41-7	
Boron	<b>1.6</b>	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 12:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 12:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:20	7440-47-3	
Cobalt	<b>0.0016J</b>	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 12:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 12:20	7439-92-1	
Lithium	<b>0.0057J</b>	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 12:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 12:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 12:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 12:20	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	0.000078	1	09/24/21 09:45	09/27/21 16:09	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>292</b>	mg/L	10.0	10.0	1		09/16/21 14:33		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>21.9</b>	mg/L	1.0	0.60	1		09/15/21 10:30	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 10:30	16984-48-8	
Sulfate	<b>139</b>	mg/L	3.0	1.5	3		09/15/21 20:36	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

**Sample: DGWC-19**      **Lab ID: 92560774007**      Collected: 09/09/21 15:48      Received: 09/10/21 17:40      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/13/21 10:06		
pH	<b>4.82</b>	Std. Units			1		09/13/21 10:06		

**6010D ATL ICP**

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

Calcium	<b>93.6</b>	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 18:30	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 12:26	7440-36-0	
Arsenic	<b>0.0027J</b>	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:26	7440-38-2	
Barium	<b>0.025</b>	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 12:26	7440-39-3	
Beryllium	<b>0.0022</b>	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 12:26	7440-41-7	
Boron	<b>2.7</b>	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 12:26	7440-42-8	
Cadmium	<b>0.00037J</b>	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 12:26	7440-43-9	
Chromium	<b>0.0030J</b>	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:26	7440-47-3	
Cobalt	<b>0.055</b>	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 12:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 12:26	7439-92-1	
Lithium	<b>0.0035J</b>	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 12:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 12:26	7439-98-7	
Selenium	<b>0.0083</b>	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 12:26	7782-49-2	
Thallium	<b>0.00056J</b>	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 12:26	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	0.000078	1	09/24/21 09:45	09/27/21 16:12	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>480</b>	mg/L	20.0	20.0	1		09/16/21 14:34		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>25.4</b>	mg/L	1.0	0.60	1		09/15/21 11:17	16887-00-6	
Fluoride	<b>0.18</b>	mg/L	0.10	0.050	1		09/15/21 11:17	16984-48-8	
Sulfate	<b>315</b>	mg/L	7.0	3.5	7		09/15/21 20:51	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

**Sample: DGWC-21**      **Lab ID: 92560774008**      Collected: 09/09/21 12:43      Received: 09/10/21 17:40      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/13/21 10:06		
pH	<b>5.73</b>	Std. Units			1		09/13/21 10:06		

**6010D ATL ICP**

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

Calcium	<b>75.3</b>	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 18:35	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 12:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:32	7440-38-2	
Barium	<b>0.023</b>	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 12:32	7440-39-3	
Beryllium	<b>0.00018J</b>	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 12:32	7440-41-7	
Boron	<b>5.8</b>	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 12:32	7440-42-8	
Cadmium	<b>0.00012J</b>	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 12:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:32	7440-47-3	
Cobalt	<b>0.0096</b>	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 12:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 12:32	7439-92-1	
Lithium	<b>0.0060J</b>	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 12:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 12:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 12:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 12:32	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	0.000078	1	09/24/21 09:45	09/27/21 16:15	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>396</b>	mg/L	10.0	10.0	1		09/16/21 14:34		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>20.2</b>	mg/L	1.0	0.60	1		09/15/21 11:32	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 11:32	16984-48-8	
Sulfate	<b>238</b>	mg/L	5.0	2.5	5		09/15/21 21:06	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

**Sample: DGWC-23**      **Lab ID: 92560774009**      Collected: 09/09/21 12:15      Received: 09/10/21 17:40      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		09/13/21 10:06		
pH	<b>6.00</b>	Std. Units			1		09/13/21 10:06		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>76.4</b>	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 18:39	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B      Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 12:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:38	7440-38-2	
Barium	<b>0.021</b>	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 12:38	7440-39-3	
Beryllium	<b>0.00050J</b>	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 12:38	7440-41-7	
Boron	<b>4.7</b>	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 12:38	7440-42-8	
Cadmium	<b>0.00019J</b>	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 12:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:38	7440-47-3	
Cobalt	<b>0.00049J</b>	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 12:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 12:38	7439-92-1	
Lithium	<b>0.0081J</b>	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 12:38	7439-93-2	
Molybdenum	<b>0.010</b>	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 12:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 12:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 12:38	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A      Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.00011J</b>	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 16:17	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>455</b>	mg/L	10.0	10.0	1		09/16/21 14:34		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>12.3</b>	mg/L	1.0	0.60	1		09/15/21 11:47	16887-00-6	M1
Fluoride	<b>0.084J</b>	mg/L	0.10	0.050	1		09/15/21 11:47	16984-48-8	M1
Sulfate	<b>217</b>	mg/L	5.0	2.5	5		09/15/21 21:21	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

**Sample: EB-1**      **Lab ID: 92560774010**      Collected: 09/09/21 16:40      Received: 09/10/21 17:40      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 18:44	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 12:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:43	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 12:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 12:43	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 12:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 12:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 12:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 12:43	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 12:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 12:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 12:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 12:43	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 16:20	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/16/21 14:34		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		09/15/21 12:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 12:34	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/15/21 12:34	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

**Sample: FB-1**      **Lab ID: 92560774011**      Collected: 09/09/21 13:40      Received: 09/10/21 17:40      Matrix: Water

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

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

Calcium	ND	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 18:49	7440-70-2	
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**6020 MET ICPMS**      Analytical Method: EPA 6020B      Preparation Method: EPA 3005A  
Pace Analytical Services - Peachtree Corners, GA

Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 12:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:49	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 12:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 12:49	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 12:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 12:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 12:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 12:49	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 12:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 12:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 12:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 12:49	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	0.000078	1	09/24/21 09:45	09/27/21 16:23	7439-97-6	
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**2540C Total Dissolved Solids**      Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/16/21 14:34		
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**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		09/15/21 12:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 12:49	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/15/21 12:49	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

**Sample: DGWC-4**      **Lab ID: 92560774012**      Collected: 09/10/21 11:08      Received: 09/10/21 17:40      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/13/21 10:07		
pH	<b>5.83</b>	Std. Units			1		09/13/21 10:07		

**6010D ATL ICP**

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

Calcium	<b>285</b>	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 18:54	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 12:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:55	7440-38-2	
Barium	<b>0.032</b>	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 12:55	7440-39-3	
Beryllium	<b>0.00028J</b>	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 12:55	7440-41-7	
Boron	<b>5.0</b>	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 12:55	7440-42-8	
Cadmium	<b>0.00090</b>	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 12:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 12:55	7440-47-3	
Cobalt	<b>0.0019J</b>	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 12:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 12:55	7439-92-1	
Lithium	<b>0.0035J</b>	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 12:55	7439-93-2	
Molybdenum	<b>0.0052J</b>	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 12:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 12:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 12:55	7440-28-0	

**7470 Mercury**

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

Mercury	<b>0.00013J</b>	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 16:25	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>1520</b>	mg/L	50.0	50.0	1		09/16/21 14:40		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>13.9</b>	mg/L	1.0	0.60	1		09/15/21 13:05	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 13:05	16984-48-8	
Sulfate	<b>823</b>	mg/L	18.0	9.0	18		09/15/21 22:07	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4  
 Pace Project No.: 92560774

Sample: DGWC-5		Lab ID: 92560774013		Collected: 09/10/21 14:32		Received: 09/10/21 17:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		09/13/21 10:07		
pH	<b>4.89</b>	Std. Units			1		09/13/21 10:07		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>123</b>	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 19:09	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 13:00	7440-36-0	
Arsenic	<b>0.0031J</b>	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 13:00	7440-38-2	
Barium	<b>0.015</b>	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 13:00	7440-39-3	
Beryllium	<b>0.0075</b>	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 13:00	7440-41-7	
Boron	<b>4.7</b>	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 13:00	7440-42-8	
Cadmium	<b>0.00093</b>	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 13:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 13:00	7440-47-3	
Cobalt	<b>0.022</b>	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 13:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 13:00	7439-92-1	
Lithium	<b>0.0071J</b>	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 13:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 13:00	7439-98-7	
Selenium	<b>0.0099</b>	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 13:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 13:00	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.00030</b>	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 16:28	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>792</b>	mg/L	20.0	20.0	1		09/16/21 14:40		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>9.9</b>	mg/L	1.0	0.60	1		09/15/21 13:20	16887-00-6	
Fluoride	<b>0.16</b>	mg/L	0.10	0.050	1		09/15/21 13:20	16984-48-8	
Sulfate	<b>449</b>	mg/L	10.0	5.0	10		09/15/21 22:22	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

**Sample: DUP-2**      **Lab ID: 92560774014**      Collected: 09/10/21 00:00      Received: 09/10/21 17:40      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>283</b>	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 19:14	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 13:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 13:06	7440-38-2	
Barium	<b>0.032</b>	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 13:06	7440-39-3	
Beryllium	<b>0.00029J</b>	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 13:06	7440-41-7	
Boron	<b>5.2</b>	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 13:06	7440-42-8	
Cadmium	<b>0.00089</b>	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 13:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 13:06	7440-47-3	
Cobalt	<b>0.0019J</b>	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 13:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 13:06	7439-92-1	
Lithium	<b>0.0036J</b>	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 13:06	7439-93-2	
Molybdenum	<b>0.0051J</b>	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 13:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 13:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 13:06	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.00013J</b>	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 16:30	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>1490</b>	mg/L	50.0	50.0	1		09/16/21 14:40		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>13.9</b>	mg/L	1.0	0.60	1		09/15/21 13:36	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 13:36	16984-48-8	
Sulfate	<b>829</b>	mg/L	18.0	9.0	18		09/15/21 22:37	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

**Sample: DGWC-9**      **Lab ID: 92560774015**      Collected: 09/10/21 11:32      Received: 09/10/21 17:40      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/13/21 10:07		
pH	<b>3.98</b>	Std. Units			1		09/13/21 10:07		

**6010D ATL ICP**

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

Calcium	<b>47.7</b>	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 19:19	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 17:33	7440-36-0	
Arsenic	<b>0.031</b>	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 17:33	7440-38-2	
Barium	<b>0.014</b>	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 17:33	7440-39-3	
Beryllium	<b>0.0049</b>	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 17:33	7440-41-7	
Boron	<b>0.54</b>	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 17:33	7440-42-8	
Cadmium	<b>0.00053</b>	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 17:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 17:33	7440-47-3	
Cobalt	<b>0.21</b>	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 17:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 17:33	7439-92-1	
Lithium	<b>0.027J</b>	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 17:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 17:33	7439-98-7	
Selenium	<b>0.057</b>	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 17:33	7782-49-2	
Thallium	<b>0.00040J</b>	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 17:33	7440-28-0	

**7470 Mercury**

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

Mercury	<b>0.00014J</b>	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 16:38	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>466</b>	mg/L	10.0	10.0	1		09/17/21 17:32		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>9.0</b>	mg/L	1.0	0.60	1		09/15/21 14:22	16887-00-6	
Fluoride	<b>2.0</b>	mg/L	0.10	0.050	1		09/15/21 14:22	16984-48-8	
Sulfate	<b>264</b>	mg/L	7.0	3.5	7		09/15/21 22:53	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

**Sample: FB-2**      **Lab ID: 92560774016**      Collected: 09/10/21 11:00      Received: 09/10/21 17:40      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 19:23	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 13:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 13:45	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 13:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 13:45	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 13:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 13:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 13:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 13:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 13:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 13:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 13:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 13:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 13:45	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 16:41	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/17/21 17:32		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		09/15/21 14:38	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 14:38	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/15/21 14:38	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

**Sample: DGWC-10**      **Lab ID: 92560774017**      Collected: 09/10/21 13:30      Received: 09/10/21 17:40      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/13/21 10:08		
pH	<b>5.05</b>	Std. Units			1		09/13/21 10:08		

**6010D ATL ICP**

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

Calcium	<b>82.4</b>	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 19:28	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 13:51	7440-36-0	
Arsenic	<b>0.0076</b>	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 13:51	7440-38-2	
Barium	<b>0.019</b>	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 13:51	7440-39-3	
Beryllium	<b>0.0074</b>	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 13:51	7440-41-7	
Boron	<b>0.24</b>	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 13:51	7440-42-8	
Cadmium	<b>0.00061</b>	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 13:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 13:51	7440-47-3	
Cobalt	<b>0.076</b>	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 13:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 13:51	7439-92-1	
Lithium	<b>0.0051J</b>	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 13:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 13:51	7439-98-7	
Selenium	<b>0.034</b>	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 13:51	7782-49-2	
Thallium	<b>0.00027J</b>	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 13:51	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 16:57	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>474</b>	mg/L	10.0	10.0	1		09/17/21 17:33		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>8.2</b>	mg/L	1.0	0.60	1		09/15/21 14:53	16887-00-6	
Fluoride	<b>2.2</b>	mg/L	0.10	0.050	1		09/15/21 14:53	16984-48-8	
Sulfate	<b>271</b>	mg/L	6.0	3.0	6		09/15/21 23:39	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4  
 Pace Project No.: 92560774

**Sample: DGWC-20**      **Lab ID: 92560774018**      Collected: 09/10/21 12:48      Received: 09/10/21 17:40      Matrix: Water

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

Analytical Method:  
 Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/13/21 10:08		
pH	<b>4.67</b>	Std. Units			1		09/13/21 10:08		

**6010D ATL ICP**

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

Calcium	<b>69.8</b>	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 19:33	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 13:56	7440-36-0	
Arsenic	<b>0.0083</b>	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 13:56	7440-38-2	
Barium	<b>0.0098</b>	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 13:56	7440-39-3	
Beryllium	<b>0.0024</b>	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 13:56	7440-41-7	
Boron	<b>4.8</b>	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 13:56	7440-42-8	
Cadmium	<b>0.0012</b>	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 13:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 13:56	7440-47-3	
Cobalt	<b>0.45</b>	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 13:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 13:56	7439-92-1	
Lithium	<b>0.0023J</b>	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 13:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 13:56	7439-98-7	
Selenium	<b>0.031</b>	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 13:56	7782-49-2	
Thallium	<b>0.00052J</b>	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 13:56	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 17:13	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
 Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>678</b>	mg/L	20.0	20.0	1		09/17/21 17:33		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
 Pace Analytical Services - Asheville

Chloride	<b>26.2</b>	mg/L	1.0	0.60	1		09/15/21 15:09	16887-00-6	
Fluoride	<b>0.25</b>	mg/L	0.10	0.050	1		09/15/21 15:09	16984-48-8	
Sulfate	<b>399</b>	mg/L	9.0	4.5	9		09/15/21 23:54	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

**Sample: DGWC-22**      **Lab ID: 92560774019**      Collected: 09/10/21 12:58      Received: 09/10/21 17:40      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/13/21 10:08		
pH	<b>5.65</b>	Std. Units			1		09/13/21 10:08		

**6010D ATL ICP**

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

Calcium	<b>62.3</b>	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 19:38	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 14:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 14:02	7440-38-2	
Barium	<b>0.027</b>	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 14:02	7440-39-3	
Beryllium	<b>0.00014J</b>	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 14:02	7440-41-7	
Boron	<b>4.5</b>	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 14:02	7440-42-8	
Cadmium	<b>0.00061</b>	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 14:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 14:02	7440-47-3	
Cobalt	<b>0.0076</b>	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 14:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 14:02	7439-92-1	
Lithium	<b>0.0039J</b>	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 14:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 14:02	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 14:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 14:02	7440-28-0	

**7470 Mercury**

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

Mercury	<b>0.00011J</b>	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 17:16	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>468</b>	mg/L	10.0	10.0	1		09/17/21 17:33		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>17.3</b>	mg/L	1.0	0.60	1		09/15/21 20:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 20:47	16984-48-8	
Sulfate	<b>234</b>	mg/L	5.0	2.5	5		09/17/21 10:45	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

**Sample: DGWC-47**      **Lab ID: 92560774020**      Collected: 09/10/21 11:00      Received: 09/10/21 17:40      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/13/21 10:08		
pH	<b>4.10</b>	Std. Units			1		09/13/21 10:08		

**6010D ATL ICP**

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

Calcium	<b>24.4</b>	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 18:44	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/21/21 12:35	09/22/21 18:25	7440-36-0	
Arsenic	<b>0.0016J</b>	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 18:25	7440-38-2	
Barium	<b>0.021</b>	mg/L	0.0050	0.00067	1	09/21/21 12:35	09/22/21 18:25	7440-39-3	
Beryllium	<b>0.0090</b>	mg/L	0.00050	0.000054	1	09/21/21 12:35	09/22/21 18:25	7440-41-7	
Boron	<b>0.16</b>	mg/L	0.040	0.0086	1	09/21/21 12:35	09/22/21 18:25	7440-42-8	
Cadmium	<b>0.0014</b>	mg/L	0.00050	0.00011	1	09/21/21 12:35	09/22/21 18:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 18:25	7440-47-3	
Cobalt	<b>0.23</b>	mg/L	0.0050	0.00039	1	09/21/21 12:35	09/22/21 18:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/21 12:35	09/22/21 18:25	7439-92-1	
Lithium	<b>0.053</b>	mg/L	0.030	0.00073	1	09/21/21 12:35	09/22/21 18:25	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/21 12:35	09/22/21 18:25	7439-98-7	
Selenium	<b>0.0035J</b>	mg/L	0.0050	0.0014	1	09/21/21 12:35	09/22/21 18:25	7782-49-2	
Thallium	<b>0.00036J</b>	mg/L	0.0010	0.00018	1	09/21/21 12:35	09/22/21 18:25	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 17:18	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>274</b>	mg/L	10.0	10.0	1		09/17/21 17:33		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>2.4</b>	mg/L	1.0	0.60	1		09/15/21 21:03	16887-00-6	
Fluoride	<b>0.22</b>	mg/L	0.10	0.050	1		09/15/21 21:03	16984-48-8	M1
Sulfate	<b>123</b>	mg/L	2.0	1.0	2		09/17/21 11:01	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

**Sample: DGWC-48**      **Lab ID: 92560774021**      Collected: 09/10/21 10:56      Received: 09/10/21 17:40      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/13/21 10:09		
pH	<b>4.30</b>	Std. Units			1		09/13/21 10:09		

**6010D ATL ICP**

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

Calcium	<b>68.7</b>	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 18:49	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	<b>0.0018J</b>	mg/L	0.0030	0.00078	1	09/21/21 12:35	09/22/21 18:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 18:48	7440-38-2	
Barium	<b>0.013</b>	mg/L	0.0050	0.00067	1	09/21/21 12:35	09/22/21 18:48	7440-39-3	
Beryllium	<b>0.0070</b>	mg/L	0.00050	0.000054	1	09/21/21 12:35	09/22/21 18:48	7440-41-7	
Boron	<b>0.55</b>	mg/L	0.040	0.0086	1	09/21/21 12:35	09/22/21 18:48	7440-42-8	
Cadmium	<b>0.0028</b>	mg/L	0.00050	0.00011	1	09/21/21 12:35	09/22/21 18:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 18:48	7440-47-3	
Cobalt	<b>0.36</b>	mg/L	0.0050	0.00039	1	09/21/21 12:35	09/22/21 18:48	7440-48-4	
Lead	<b>0.00099J</b>	mg/L	0.0010	0.00089	1	09/21/21 12:35	09/22/21 18:48	7439-92-1	
Lithium	<b>0.095</b>	mg/L	0.030	0.00073	1	09/21/21 12:35	09/22/21 18:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/21 12:35	09/22/21 18:48	7439-98-7	
Selenium	<b>0.0022J</b>	mg/L	0.0050	0.0014	1	09/21/21 12:35	09/22/21 18:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/21 12:35	09/22/21 18:48	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 17:21	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>532</b>	mg/L	20.0	20.0	1		09/17/21 17:33		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>10.9</b>	mg/L	1.0	0.60	1		09/15/21 14:29	16887-00-6	
Fluoride	<b>0.47</b>	mg/L	0.10	0.050	1		09/15/21 14:29	16984-48-8	M1
Sulfate	<b>272</b>	mg/L	6.0	3.0	6		09/15/21 22:10	14808-79-8	M1

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

**Sample:** DUP-1      **Lab ID:** 92560774022      Collected: 09/10/21 00:00      Received: 09/10/21 17:40      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>70.3</b>	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 18:54	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/21/21 12:35	09/22/21 18:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 18:53	7440-38-2	
Barium	<b>0.013</b>	mg/L	0.0050	0.00067	1	09/21/21 12:35	09/22/21 18:53	7440-39-3	
Beryllium	<b>0.0069</b>	mg/L	0.00050	0.000054	1	09/21/21 12:35	09/22/21 18:53	7440-41-7	
Boron	<b>0.54</b>	mg/L	0.040	0.0086	1	09/21/21 12:35	09/22/21 18:53	7440-42-8	
Cadmium	<b>0.0028</b>	mg/L	0.00050	0.00011	1	09/21/21 12:35	09/22/21 18:53	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 18:53	7440-47-3	
Cobalt	<b>0.36</b>	mg/L	0.0050	0.00039	1	09/21/21 12:35	09/22/21 18:53	7440-48-4	
Lead	<b>0.0010</b>	mg/L	0.0010	0.00089	1	09/21/21 12:35	09/22/21 18:53	7439-92-1	
Lithium	<b>0.094</b>	mg/L	0.030	0.00073	1	09/21/21 12:35	09/22/21 18:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/21 12:35	09/22/21 18:53	7439-98-7	
Selenium	<b>0.0024J</b>	mg/L	0.0050	0.0014	1	09/21/21 12:35	09/22/21 18:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/21 12:35	09/22/21 18:53	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 17:24	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>556</b>	mg/L	10.0	10.0	1		09/17/21 17:34		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>10.5</b>	mg/L	1.0	0.60	1		09/15/21 15:16	16887-00-6	
Fluoride	<b>0.49</b>	mg/L	0.10	0.050	1		09/15/21 15:16	16984-48-8	
Sulfate	<b>264</b>	mg/L	6.0	3.0	6		09/15/21 23:29	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4  
 Pace Project No.: 92560774

Sample: EB-2		Lab ID: 92560774023		Collected: 09/10/21 10:35	Received: 09/10/21 17:40	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6010D ATL ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 18:59	7440-70-2		
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/21/21 12:35	09/22/21 18:59	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 18:59	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	09/21/21 12:35	09/22/21 18:59	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/21/21 12:35	09/22/21 18:59	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	09/21/21 12:35	09/22/21 18:59	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/21/21 12:35	09/22/21 18:59	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 18:59	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/21/21 12:35	09/22/21 18:59	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/21/21 12:35	09/22/21 18:59	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/21/21 12:35	09/22/21 18:59	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/21 12:35	09/22/21 18:59	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/21 12:35	09/22/21 18:59	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/21 12:35	09/22/21 18:59	7440-28-0		
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 17:26	7439-97-6		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	<b>20.0</b>	mg/L	10.0	10.0	1		09/17/21 17:34			
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/15/21 15:32	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 15:32	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/15/21 15:32	14808-79-8		

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4  
 Pace Project No.: 92560774

**Sample: DGWC-8**      **Lab ID: 92560774024**      Collected: 09/13/21 11:00      Received: 09/14/21 09:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		09/14/21 11:25		
pH	<b>5.05</b>	Std. Units			1		09/14/21 11:25		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>36.0</b>	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 19:37	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B      Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/21/21 12:35	09/22/21 19:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 19:05	7440-38-2	
Barium	<b>0.019</b>	mg/L	0.0050	0.00067	1	09/21/21 12:35	09/22/21 19:05	7440-39-3	
Beryllium	<b>0.0015</b>	mg/L	0.00050	0.000054	1	09/21/21 12:35	09/22/21 19:05	7440-41-7	
Boron	<b>0.86</b>	mg/L	0.040	0.0086	1	09/21/21 12:35	09/22/21 19:05	7440-42-8	
Cadmium	<b>0.0020</b>	mg/L	0.00050	0.00011	1	09/21/21 12:35	09/22/21 19:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 19:05	7440-47-3	
Cobalt	<b>0.028</b>	mg/L	0.0050	0.00039	1	09/21/21 12:35	09/22/21 19:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/21 12:35	09/22/21 19:05	7439-92-1	
Lithium	<b>0.0034J</b>	mg/L	0.030	0.00073	1	09/21/21 12:35	09/22/21 19:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/21 12:35	09/22/21 19:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/21 12:35	09/22/21 19:05	7782-49-2	
Thallium	<b>0.00019J</b>	mg/L	0.0010	0.00018	1	09/21/21 12:35	09/22/21 19:05	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A      Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 17:29	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>306</b>	mg/L	10.0	10.0	1		09/20/21 16:36		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>8.2</b>	mg/L	1.0	0.60	1		09/15/21 20:51	16887-00-6	
Fluoride	<b>0.069J</b>	mg/L	0.10	0.050	1		09/15/21 20:51	16984-48-8	
Sulfate	<b>145</b>	mg/L	3.0	1.5	3		09/16/21 02:22	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

**Sample: DGWC-17**      **Lab ID: 92560774025**      Collected: 09/13/21 11:04      Received: 09/14/21 09:35      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/14/21 11:25		
pH	<b>5.06</b>	Std. Units			1		09/14/21 11:25		

**6010D ATL ICP**

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

Calcium	<b>15.8</b>	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 19:42	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/21/21 12:35	09/22/21 19:22	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 19:22	7440-38-2	
Barium	<b>0.031</b>	mg/L	0.0050	0.00067	1	09/21/21 12:35	09/22/21 19:22	7440-39-3	
Beryllium	<b>0.00052</b>	mg/L	0.00050	0.000054	1	09/21/21 12:35	09/22/21 19:22	7440-41-7	
Boron	<b>0.78</b>	mg/L	0.040	0.0086	1	09/21/21 12:35	09/22/21 19:22	7440-42-8	
Cadmium	<b>0.00023J</b>	mg/L	0.00050	0.00011	1	09/21/21 12:35	09/22/21 19:22	7440-43-9	
Chromium	<b>0.0027J</b>	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 19:22	7440-47-3	
Cobalt	<b>0.019</b>	mg/L	0.0050	0.00039	1	09/21/21 12:35	09/22/21 19:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/21 12:35	09/22/21 19:22	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/21/21 12:35	09/22/21 19:22	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/21 12:35	09/22/21 19:22	7439-98-7	
Selenium	<b>0.0071</b>	mg/L	0.0050	0.0014	1	09/21/21 12:35	09/22/21 19:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/21 12:35	09/22/21 19:22	7440-28-0	

**7470 Mercury**

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

Mercury	<b>0.000086J</b>	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 17:31	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>424</b>	mg/L	10.0	10.0	1		09/20/21 16:36		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>18.2</b>	mg/L	1.0	0.60	1		09/15/21 21:07	16887-00-6	
Fluoride	<b>0.063J</b>	mg/L	0.10	0.050	1		09/15/21 21:07	16984-48-8	
Sulfate	<b>222</b>	mg/L	5.0	2.5	5		09/16/21 02:38	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

**Sample: DGWC-42**      **Lab ID: 92560774026**      Collected: 09/13/21 15:00      Received: 09/14/21 09:35      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/14/21 11:25		
pH	<b>5.15</b>	Std. Units			1		09/14/21 11:25		

**6010D ATL ICP**

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

Calcium	<b>38.9</b>	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 19:47	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/21/21 12:35	09/22/21 19:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 19:28	7440-38-2	
Barium	<b>0.014</b>	mg/L	0.0050	0.00067	1	09/21/21 12:35	09/22/21 19:28	7440-39-3	
Beryllium	<b>0.0024</b>	mg/L	0.00050	0.000054	1	09/21/21 12:35	09/22/21 19:28	7440-41-7	
Boron	<b>0.95</b>	mg/L	0.040	0.0086	1	09/21/21 12:35	09/22/21 19:28	7440-42-8	
Cadmium	<b>0.00042J</b>	mg/L	0.00050	0.00011	1	09/21/21 12:35	09/22/21 19:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 19:28	7440-47-3	
Cobalt	<b>0.0080</b>	mg/L	0.0050	0.00039	1	09/21/21 12:35	09/22/21 19:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/21 12:35	09/22/21 19:28	7439-92-1	
Lithium	<b>0.015J</b>	mg/L	0.030	0.00073	1	09/21/21 12:35	09/22/21 19:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/21 12:35	09/22/21 19:28	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/21 12:35	09/22/21 19:28	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/21 12:35	09/22/21 19:28	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 17:34	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>508</b>	mg/L	20.0	20.0	1		09/20/21 16:36		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>17.1</b>	mg/L	1.0	0.60	1		09/15/21 21:23	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 21:23	16984-48-8	
Sulfate	<b>285</b>	mg/L	6.0	3.0	6		09/16/21 02:53	14808-79-8	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

QC Batch:	648325	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92560774001, 92560774002, 92560774003, 92560774004, 92560774005, 92560774006, 92560774007, 92560774008, 92560774009, 92560774010, 92560774011, 92560774012, 92560774013, 92560774014, 92560774015, 92560774016, 92560774017, 92560774018, 92560774019		

METHOD BLANK:	3400203	Matrix:	Water
Associated Lab Samples:	92560774001, 92560774002, 92560774003, 92560774004, 92560774005, 92560774006, 92560774007, 92560774008, 92560774009, 92560774010, 92560774011, 92560774012, 92560774013, 92560774014, 92560774015, 92560774016, 92560774017, 92560774018, 92560774019		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/20/21 17:23	

LABORATORY CONTROL SAMPLE:	3400204					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3400205			3400206								
Parameter	Units	92560774001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	42.0	1	1	44.1	42.4	202	31	75-125	4	20	M1

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4  
 Pace Project No.: 92560774

QC Batch: 648974 Analysis Method: EPA 6010D  
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92560774020, 92560774021, 92560774022, 92560774023, 92560774024, 92560774025, 92560774026

METHOD BLANK: 3403796 Matrix: Water  
 Associated Lab Samples: 92560774020, 92560774021, 92560774022, 92560774023, 92560774024, 92560774025, 92560774026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/23/21 17:54	

LABORATORY CONTROL SAMPLE: 3403797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3403798 3403799

Parameter	Units	92560768003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	42.1	1	1	41.6	40.7	-42	-139	75-125	2	20	M1

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

QC Batch: 648326 Analysis Method: EPA 6020B  
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92560774001, 92560774002, 92560774003, 92560774004, 92560774005, 92560774006, 92560774007, 92560774008, 92560774009, 92560774010, 92560774011, 92560774012, 92560774013, 92560774014, 92560774015, 92560774016, 92560774017, 92560774018, 92560774019

METHOD BLANK: 3400210 Matrix: Water  
 Associated Lab Samples: 92560774001, 92560774002, 92560774003, 92560774004, 92560774005, 92560774006, 92560774007, 92560774008, 92560774009, 92560774010, 92560774011, 92560774012, 92560774013, 92560774014, 92560774015, 92560774016, 92560774017, 92560774018, 92560774019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/22/21 11:04	
Arsenic	mg/L	ND	0.0050	0.0011	09/22/21 11:04	
Barium	mg/L	ND	0.0050	0.00067	09/22/21 11:04	
Beryllium	mg/L	ND	0.00050	0.000054	09/22/21 11:04	
Boron	mg/L	ND	0.040	0.0086	09/22/21 11:04	
Cadmium	mg/L	ND	0.00050	0.00011	09/22/21 11:04	
Chromium	mg/L	ND	0.0050	0.0011	09/22/21 11:04	
Cobalt	mg/L	ND	0.0050	0.00039	09/22/21 11:04	
Lead	mg/L	ND	0.0010	0.00089	09/22/21 11:04	
Lithium	mg/L	ND	0.030	0.00073	09/22/21 11:04	
Molybdenum	mg/L	ND	0.010	0.00074	09/22/21 11:04	
Selenium	mg/L	ND	0.0050	0.0014	09/22/21 11:04	
Thallium	mg/L	ND	0.0010	0.00018	09/22/21 11:04	

LABORATORY CONTROL SAMPLE: 3400211

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	101	80-120	
Barium	mg/L	0.1	0.11	106	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	113	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.11	108	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

Parameter	Units	3400212		3400213		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92560774001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	105	105	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	102	105	75-125	3	20	
Barium	mg/L	0.022	0.1	0.1	0.13	0.13	104	103	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	2	20	
Boron	mg/L	0.51	1	1	1.6	1.6	110	109	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	2	20	
Cobalt	mg/L	0.0048J	0.1	0.1	0.11	0.11	101	102	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	1	20	
Lithium	mg/L	0.024J	0.1	0.1	0.12	0.12	99	99	75-125	0	20	
Molybdenum	mg/L	0.0023J	0.1	0.1	0.11	0.11	105	106	75-125	1	20	
Selenium	mg/L	0.0031J	0.1	0.1	0.11	0.11	104	106	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.10	98	101	75-125	3	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

QC Batch:	648523	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560774020, 92560774021, 92560774022, 92560774023, 92560774024, 92560774025, 92560774026

METHOD BLANK: 3401252 Matrix: Water

Associated Lab Samples: 92560774020, 92560774021, 92560774022, 92560774023, 92560774024, 92560774025, 92560774026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/22/21 18:13	
Arsenic	mg/L	ND	0.0050	0.0011	09/22/21 18:13	
Barium	mg/L	ND	0.0050	0.00067	09/22/21 18:13	
Beryllium	mg/L	ND	0.00050	0.000054	09/22/21 18:13	
Boron	mg/L	ND	0.040	0.0086	09/22/21 18:13	
Cadmium	mg/L	ND	0.00050	0.00011	09/22/21 18:13	
Chromium	mg/L	ND	0.0050	0.0011	09/22/21 18:13	
Cobalt	mg/L	ND	0.0050	0.00039	09/22/21 18:13	
Lead	mg/L	ND	0.0010	0.00089	09/22/21 18:13	
Lithium	mg/L	ND	0.030	0.00073	09/22/21 18:13	
Molybdenum	mg/L	ND	0.010	0.00074	09/22/21 18:13	
Selenium	mg/L	ND	0.0050	0.0014	09/22/21 18:13	
Thallium	mg/L	ND	0.0010	0.00018	09/22/21 18:13	

LABORATORY CONTROL SAMPLE: 3401253

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.11	109	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.11	109	80-120	
Cobalt	mg/L	0.1	0.11	108	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.095	95	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	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3401254 3401255

Parameter	Units	92560774020 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	108	107	75-125	1	20	
Arsenic	mg/L	0.0016J	0.1	0.1	0.10	0.10	100	100	75-125	0	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

Parameter	Units	3401254		3401255		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Barium	mg/L	0.021	0.1	0.1	0.13	0.13	113	113	75-125	0	20		
Beryllium	mg/L	0.0090	0.1	0.1	0.10	0.10	92	94	75-125	2	20		
Boron	mg/L	0.16	1	1	1.2	1.2	99	102	75-125	3	20		
Cadmium	mg/L	0.0014	0.1	0.1	0.10	0.10	101	100	75-125	0	20		
Chromium	mg/L	ND	0.1	0.1	0.11	0.11	109	109	75-125	0	20		
Cobalt	mg/L	0.23	0.1	0.1	0.34	0.32	107	94	75-125	4	20		
Lead	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20		
Lithium	mg/L	0.053	0.1	0.1	0.15	0.14	95	90	75-125	4	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	103	105	75-125	2	20		
Selenium	mg/L	0.0035J	0.1	0.1	0.10	0.10	100	97	75-125	2	20		
Thallium	mg/L	0.00036J	0.1	0.1	0.097	0.097	97	96	75-125	1	20		

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

QC Batch: 649458 Analysis Method: EPA 7470A  
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92560774001, 92560774002, 92560774003, 92560774004, 92560774005, 92560774006, 92560774007, 92560774008, 92560774009, 92560774010, 92560774011, 92560774012, 92560774013, 92560774014, 92560774015, 92560774016

METHOD BLANK: 3406292 Matrix: Water  
 Associated Lab Samples: 92560774001, 92560774002, 92560774003, 92560774004, 92560774005, 92560774006, 92560774007, 92560774008, 92560774009, 92560774010, 92560774011, 92560774012, 92560774013, 92560774014, 92560774015, 92560774016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/27/21 15:32	

LABORATORY CONTROL SAMPLE: 3406293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0028	113	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406294 3406295

Parameter	Units	3406294		3406295		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0027	0.0027	108	105	75-125	3	20

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

QC Batch: 649459

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560774017, 92560774018, 92560774019, 92560774020, 92560774021, 92560774022, 92560774023, 92560774024, 92560774025, 92560774026

METHOD BLANK: 3406298

Matrix: Water

Associated Lab Samples: 92560774017, 92560774018, 92560774019, 92560774020, 92560774021, 92560774022, 92560774023, 92560774024, 92560774025, 92560774026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/27/21 16:51	

LABORATORY CONTROL SAMPLE: 3406299

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0027	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406300 3406301

Parameter	Units	92560774017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0026	100	103	75-125	3	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4  
 Pace Project No.: 92560774

QC Batch: 647701 Analysis Method: SM 2540C-2011  
 QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92560774001, 92560774002, 92560774003, 92560774004, 92560774005, 92560774006, 92560774007, 92560774008, 92560774009, 92560774010, 92560774011, 92560774012, 92560774013, 92560774014

METHOD BLANK: 3397222 Matrix: Water  
 Associated Lab Samples: 92560774001, 92560774002, 92560774003, 92560774004, 92560774005, 92560774006, 92560774007, 92560774008, 92560774009, 92560774010, 92560774011, 92560774012, 92560774013, 92560774014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/16/21 14:33	

LABORATORY CONTROL SAMPLE: 3397223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	400	100	90-111	

SAMPLE DUPLICATE: 3397224

Parameter	Units	92560774001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	260	251	4	10	

SAMPLE DUPLICATE: 3397225

Parameter	Units	92560774011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

QC Batch: 647940

Analysis Method: SM 2540C-2011

QC Batch Method: SM 2540C-2011

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560774015, 92560774016, 92560774017, 92560774018, 92560774019, 92560774020, 92560774021, 92560774022, 92560774023

METHOD BLANK: 3398525

Matrix: Water

Associated Lab Samples: 92560774015, 92560774016, 92560774017, 92560774018, 92560774019, 92560774020, 92560774021, 92560774022, 92560774023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/17/21 17:32	

LABORATORY CONTROL SAMPLE: 3398526

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	400	100	90-111	

SAMPLE DUPLICATE: 3400012

Parameter	Units	92560858001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	62.0	52.0	18	10	D6

SAMPLE DUPLICATE: 3400013

Parameter	Units	92560961003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	118	122	3	10	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

QC Batch:	648323	Analysis Method:	SM 2540C-2011
QC Batch Method:	SM 2540C-2011	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92560774024, 92560774025, 92560774026		

METHOD BLANK: 3400167 Matrix: Water

Associated Lab Samples: 92560774024, 92560774025, 92560774026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/20/21 16:33	

LABORATORY CONTROL SAMPLE: 3400168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	90-111	

SAMPLE DUPLICATE: 3400169

Parameter	Units	92560963001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	139	127	9	10	

SAMPLE DUPLICATE: 3400170

Parameter	Units	92560768008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	296	295	0	10	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

QC Batch: 647165 Analysis Method: EPA 300.0 Rev 2.1 1993  
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
 Laboratory: Pace Analytical Services - Asheville  
 Associated Lab Samples: 92560774001, 92560774002, 92560774003, 92560774004, 92560774005, 92560774006, 92560774007, 92560774008, 92560774009, 92560774010, 92560774011, 92560774012, 92560774013, 92560774014, 92560774015, 92560774016, 92560774017, 92560774018

METHOD BLANK: 3394756 Matrix: Water  
 Associated Lab Samples: 92560774001, 92560774002, 92560774003, 92560774004, 92560774005, 92560774006, 92560774007, 92560774008, 92560774009, 92560774010, 92560774011, 92560774012, 92560774013, 92560774014, 92560774015, 92560774016, 92560774017, 92560774018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/15/21 07:09	
Fluoride	mg/L	ND	0.10	0.050	09/15/21 07:09	
Sulfate	mg/L	ND	1.0	0.50	09/15/21 07:09	

LABORATORY CONTROL SAMPLE: 3394757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.7	97	90-110	
Fluoride	mg/L	2.5	2.3	93	90-110	
Sulfate	mg/L	50	49.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394758 3394759

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560768003 Result	Spike Conc.	Spike Conc.	Result						
Chloride	mg/L	4.8	50	50	63.0	64.6	116	120	90-110	3	10 M1
Fluoride	mg/L	0.15	2.5	2.5	3.1	3.1	117	119	90-110	2	10 M1
Sulfate	mg/L	93.2	50	50	136	137	86	87	90-110	0	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394760 3394761

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560774009 Result	Spike Conc.	Spike Conc.	Result						
Chloride	mg/L	12.3	50	50	70.2	71.8	116	119	90-110	2	10 M1
Fluoride	mg/L	0.084J	2.5	2.5	3.1	3.2	121	125	90-110	3	10 M1
Sulfate	mg/L	217	50	50	266	268	99	101	90-110	0	10

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

QC Batch: 647236	Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92560774019, 92560774020

METHOD BLANK: 3394945 Matrix: Water

Associated Lab Samples: 92560774019, 92560774020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/15/21 12:17	
Fluoride	mg/L	ND	0.10	0.050	09/15/21 12:17	
Sulfate	mg/L	ND	1.0	0.50	09/15/21 12:17	

LABORATORY CONTROL SAMPLE: 3394946

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.3	99	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	49.2	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394947 3394948

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560964004 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	3.2	50	50	54.7	55.8	103	105	90-110	2	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	98	101	90-110	2	10		
Sulfate	mg/L	10.0	50	50	61.5	62.8	103	106	90-110	2	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394949 3394950

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560774020 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	2.4	50	50	54.5	55.3	104	106	90-110	1	10		
Fluoride	mg/L	0.22	2.5	2.5	2.2	2.3	79	81	90-110	3	10 M1		
Sulfate	mg/L	123	50	50	175	169	104	92	90-110	3	10		

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### QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

QC Batch:	647237	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92560774021, 92560774022, 92560774023, 92560774024, 92560774025, 92560774026

METHOD BLANK: 3394951 Matrix: Water  
 Associated Lab Samples: 92560774021, 92560774022, 92560774023, 92560774024, 92560774025, 92560774026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/15/21 13:41	
Fluoride	mg/L	ND	0.10	0.050	09/15/21 13:41	
Sulfate	mg/L	ND	1.0	0.50	09/15/21 13:41	

LABORATORY CONTROL SAMPLE: 3394952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.9	94	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394953 3394954

Parameter	Units	92560774021		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	10.9	50	50	62.5	63.0	103	104	90-110	1	10		
Fluoride	mg/L	0.47	2.5	2.5	3.3	3.3	112	112	90-110	0	10	M1	
Sulfate	mg/L	272	50	50	315	313	87	82	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394955 3394956

Parameter	Units	92560768007		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	8.7	50	50	59.6	60.9	102	104	90-110	2	10		
Fluoride	mg/L	0.051J	2.5	2.5	2.6	2.7	103	105	90-110	2	10		
Sulfate	mg/L	174	50	50	217	219	88	91	90-110	1	10	M1	

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## QUALIFIERS

Project: MCDONOUGH AP-2/3/4  
Pace Project No.: 92560774

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560774001	DGWC-2				
92560774002	DGWC-11				
92560774003	DGWC-12				
92560774004	DGWC-13				
92560774005	DGWC-14				
92560774006	DGWC-15				
92560774007	DGWC-19				
92560774008	DGWC-21				
92560774009	DGWC-23				
92560774012	DGWC-4				
92560774013	DGWC-5				
92560774015	DGWC-9				
92560774017	DGWC-10				
92560774018	DGWC-20				
92560774019	DGWC-22				
92560774020	DGWC-47				
92560774021	DGWC-48				
92560774024	DGWC-8				
92560774025	DGWC-17				
92560774026	DGWC-42				
92560774001	DGWC-2	EPA 3010A	648325	EPA 6010D	648333
92560774002	DGWC-11	EPA 3010A	648325	EPA 6010D	648333
92560774003	DGWC-12	EPA 3010A	648325	EPA 6010D	648333
92560774004	DGWC-13	EPA 3010A	648325	EPA 6010D	648333
92560774005	DGWC-14	EPA 3010A	648325	EPA 6010D	648333
92560774006	DGWC-15	EPA 3010A	648325	EPA 6010D	648333
92560774007	DGWC-19	EPA 3010A	648325	EPA 6010D	648333
92560774008	DGWC-21	EPA 3010A	648325	EPA 6010D	648333
92560774009	DGWC-23	EPA 3010A	648325	EPA 6010D	648333
92560774010	EB-1	EPA 3010A	648325	EPA 6010D	648333
92560774011	FB-1	EPA 3010A	648325	EPA 6010D	648333
92560774012	DGWC-4	EPA 3010A	648325	EPA 6010D	648333
92560774013	DGWC-5	EPA 3010A	648325	EPA 6010D	648333
92560774014	DUP-2	EPA 3010A	648325	EPA 6010D	648333
92560774015	DGWC-9	EPA 3010A	648325	EPA 6010D	648333
92560774016	FB-2	EPA 3010A	648325	EPA 6010D	648333
92560774017	DGWC-10	EPA 3010A	648325	EPA 6010D	648333
92560774018	DGWC-20	EPA 3010A	648325	EPA 6010D	648333
92560774019	DGWC-22	EPA 3010A	648325	EPA 6010D	648333
92560774020	DGWC-47	EPA 3010A	648974	EPA 6010D	649029
92560774021	DGWC-48	EPA 3010A	648974	EPA 6010D	649029
92560774022	DUP-1	EPA 3010A	648974	EPA 6010D	649029
92560774023	EB-2	EPA 3010A	648974	EPA 6010D	649029
92560774024	DGWC-8	EPA 3010A	648974	EPA 6010D	649029
92560774025	DGWC-17	EPA 3010A	648974	EPA 6010D	649029
92560774026	DGWC-42	EPA 3010A	648974	EPA 6010D	649029
92560774001	DGWC-2	EPA 3005A	648326	EPA 6020B	648331

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560774002	DGWC-11	EPA 3005A	648326	EPA 6020B	648331
92560774003	DGWC-12	EPA 3005A	648326	EPA 6020B	648331
92560774004	DGWC-13	EPA 3005A	648326	EPA 6020B	648331
92560774005	DGWC-14	EPA 3005A	648326	EPA 6020B	648331
92560774006	DGWC-15	EPA 3005A	648326	EPA 6020B	648331
92560774007	DGWC-19	EPA 3005A	648326	EPA 6020B	648331
92560774008	DGWC-21	EPA 3005A	648326	EPA 6020B	648331
92560774009	DGWC-23	EPA 3005A	648326	EPA 6020B	648331
92560774010	EB-1	EPA 3005A	648326	EPA 6020B	648331
92560774011	FB-1	EPA 3005A	648326	EPA 6020B	648331
92560774012	DGWC-4	EPA 3005A	648326	EPA 6020B	648331
92560774013	DGWC-5	EPA 3005A	648326	EPA 6020B	648331
92560774014	DUP-2	EPA 3005A	648326	EPA 6020B	648331
92560774015	DGWC-9	EPA 3005A	648326	EPA 6020B	648331
92560774016	FB-2	EPA 3005A	648326	EPA 6020B	648331
92560774017	DGWC-10	EPA 3005A	648326	EPA 6020B	648331
92560774018	DGWC-20	EPA 3005A	648326	EPA 6020B	648331
92560774019	DGWC-22	EPA 3005A	648326	EPA 6020B	648331
92560774020	DGWC-47	EPA 3005A	648523	EPA 6020B	648596
92560774021	DGWC-48	EPA 3005A	648523	EPA 6020B	648596
92560774022	DUP-1	EPA 3005A	648523	EPA 6020B	648596
92560774023	EB-2	EPA 3005A	648523	EPA 6020B	648596
92560774024	DGWC-8	EPA 3005A	648523	EPA 6020B	648596
92560774025	DGWC-17	EPA 3005A	648523	EPA 6020B	648596
92560774026	DGWC-42	EPA 3005A	648523	EPA 6020B	648596
92560774001	DGWC-2	EPA 7470A	649458	EPA 7470A	649537
92560774002	DGWC-11	EPA 7470A	649458	EPA 7470A	649537
92560774003	DGWC-12	EPA 7470A	649458	EPA 7470A	649537
92560774004	DGWC-13	EPA 7470A	649458	EPA 7470A	649537
92560774005	DGWC-14	EPA 7470A	649458	EPA 7470A	649537
92560774006	DGWC-15	EPA 7470A	649458	EPA 7470A	649537
92560774007	DGWC-19	EPA 7470A	649458	EPA 7470A	649537
92560774008	DGWC-21	EPA 7470A	649458	EPA 7470A	649537
92560774009	DGWC-23	EPA 7470A	649458	EPA 7470A	649537
92560774010	EB-1	EPA 7470A	649458	EPA 7470A	649537
92560774011	FB-1	EPA 7470A	649458	EPA 7470A	649537
92560774012	DGWC-4	EPA 7470A	649458	EPA 7470A	649537
92560774013	DGWC-5	EPA 7470A	649458	EPA 7470A	649537
92560774014	DUP-2	EPA 7470A	649458	EPA 7470A	649537
92560774015	DGWC-9	EPA 7470A	649458	EPA 7470A	649537
92560774016	FB-2	EPA 7470A	649458	EPA 7470A	649537
92560774017	DGWC-10	EPA 7470A	649459	EPA 7470A	649538
92560774018	DGWC-20	EPA 7470A	649459	EPA 7470A	649538
92560774019	DGWC-22	EPA 7470A	649459	EPA 7470A	649538
92560774020	DGWC-47	EPA 7470A	649459	EPA 7470A	649538
92560774021	DGWC-48	EPA 7470A	649459	EPA 7470A	649538
92560774022	DUP-1	EPA 7470A	649459	EPA 7470A	649538

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2/3/4  
 Pace Project No.: 92560774

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560774023	EB-2	EPA 7470A	649459	EPA 7470A	649538
92560774024	DGWC-8	EPA 7470A	649459	EPA 7470A	649538
92560774025	DGWC-17	EPA 7470A	649459	EPA 7470A	649538
92560774026	DGWC-42	EPA 7470A	649459	EPA 7470A	649538
92560774001	DGWC-2	SM 2540C-2011	647701		
92560774002	DGWC-11	SM 2540C-2011	647701		
92560774003	DGWC-12	SM 2540C-2011	647701		
92560774004	DGWC-13	SM 2540C-2011	647701		
92560774005	DGWC-14	SM 2540C-2011	647701		
92560774006	DGWC-15	SM 2540C-2011	647701		
92560774007	DGWC-19	SM 2540C-2011	647701		
92560774008	DGWC-21	SM 2540C-2011	647701		
92560774009	DGWC-23	SM 2540C-2011	647701		
92560774010	EB-1	SM 2540C-2011	647701		
92560774011	FB-1	SM 2540C-2011	647701		
92560774012	DGWC-4	SM 2540C-2011	647701		
92560774013	DGWC-5	SM 2540C-2011	647701		
92560774014	DUP-2	SM 2540C-2011	647701		
92560774015	DGWC-9	SM 2540C-2011	647940		
92560774016	FB-2	SM 2540C-2011	647940		
92560774017	DGWC-10	SM 2540C-2011	647940		
92560774018	DGWC-20	SM 2540C-2011	647940		
92560774019	DGWC-22	SM 2540C-2011	647940		
92560774020	DGWC-47	SM 2540C-2011	647940		
92560774021	DGWC-48	SM 2540C-2011	647940		
92560774022	DUP-1	SM 2540C-2011	647940		
92560774023	EB-2	SM 2540C-2011	647940		
92560774024	DGWC-8	SM 2540C-2011	648323		
92560774025	DGWC-17	SM 2540C-2011	648323		
92560774026	DGWC-42	SM 2540C-2011	648323		
92560774001	DGWC-2	EPA 300.0 Rev 2.1 1993	647165		
92560774002	DGWC-11	EPA 300.0 Rev 2.1 1993	647165		
92560774003	DGWC-12	EPA 300.0 Rev 2.1 1993	647165		
92560774004	DGWC-13	EPA 300.0 Rev 2.1 1993	647165		
92560774005	DGWC-14	EPA 300.0 Rev 2.1 1993	647165		
92560774006	DGWC-15	EPA 300.0 Rev 2.1 1993	647165		
92560774007	DGWC-19	EPA 300.0 Rev 2.1 1993	647165		
92560774008	DGWC-21	EPA 300.0 Rev 2.1 1993	647165		
92560774009	DGWC-23	EPA 300.0 Rev 2.1 1993	647165		
92560774010	EB-1	EPA 300.0 Rev 2.1 1993	647165		
92560774011	FB-1	EPA 300.0 Rev 2.1 1993	647165		
92560774012	DGWC-4	EPA 300.0 Rev 2.1 1993	647165		
92560774013	DGWC-5	EPA 300.0 Rev 2.1 1993	647165		
92560774014	DUP-2	EPA 300.0 Rev 2.1 1993	647165		
92560774015	DGWC-9	EPA 300.0 Rev 2.1 1993	647165		
92560774016	FB-2	EPA 300.0 Rev 2.1 1993	647165		
92560774017	DGWC-10	EPA 300.0 Rev 2.1 1993	647165		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2/3/4

Pace Project No.: 92560774

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560774018	DGWC-20	EPA 300.0 Rev 2.1 1993	647165		
92560774019	DGWC-22	EPA 300.0 Rev 2.1 1993	647236		
92560774020	DGWC-47	EPA 300.0 Rev 2.1 1993	647236		
92560774021	DGWC-48	EPA 300.0 Rev 2.1 1993	647237		
92560774022	DUP-1	EPA 300.0 Rev 2.1 1993	647237		
92560774023	EB-2	EPA 300.0 Rev 2.1 1993	647237		
92560774024	DGWC-8	EPA 300.0 Rev 2.1 1993	647237		
92560774025	DGWC-17	EPA 300.0 Rev 2.1 1993	647237		
92560774026	DGWC-42	EPA 300.0 Rev 2.1 1993	647237		

### REPORT OF LABORATORY ANALYSIS

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Document Name:  
Sample Condition Upon Receipt (SCUR)  
Document No.:  
I-CAR-CS-033-Rev.07

Document Revised: October 28, 2020  
Page 1 of 2  
Issuing Authority:  
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt:

Client Name:

*Georgia Power*

Project #:

WO#: 92560774



Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initial Person Examining Contents: *11/11/21*

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Yes  No  N/A

Thermometer:

If Gun ID: *230*

Type of Ice:  Wet  Dry  None

Cooler Temp:

*3.4* Correction Factor: Add/Subtract (°C) *± 0.1*

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): *3.5*

USDA Regulated Soil (  N/A, water sample)

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

Yes  No

Did samples originate from a foreign source (international, including Hawaii and Puerto Rico)?

Yes  No

Comments/Discrepancy:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (K2 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Bulk Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match CDC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
<i>WT</i> Includes Date/Time/ID/Analysis Matrix		
Headspace in VOA Vials (<5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCUR Review: \_\_\_\_\_

Date: \_\_\_\_\_

Project Manager SRP 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, DRD/ROD (water) DOC, LMg

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

Project # **WO# : 92560774**

PH: NMG

Due Date: 09/24/21

CLIENT: GR-GR Power

Item#	Description	1	2	3	4	5	6	7	8	9	10	11	12
BP40-125 ml Plastic Unpreserved (N/A) (C-1)		/	/	/	/	/	/	/	/	/	/	/	/
BP40-250 ml Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP20-500 ml Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP10-1 liter Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP45-225 ml Plastic HClO4 (pH < 2) (C-1)		/	/	/	/	/	/	/	/	/	/	/	/
BP10-250 ml plastic HClO4 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
BP42-125 ml Plastic 2N Acetate & Acetic (pH)		/	/	/	/	/	/	/	/	/	/	/	/
BP40-125 ml Plastic NaOH (pH > 12) (C-1)		/	/	/	/	/	/	/	/	/	/	/	/
WSPU-Wide mouthed Glass jar Unpreserved		/	/	/	/	/	/	/	/	/	/	/	/
AD20-1 liter Amber Unpreserved (N/A) (C-1)		/	/	/	/	/	/	/	/	/	/	/	/
AD20-1 liter Amber 100 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AD30-250 ml Amber Unpreserved (N/A) (C-1)		/	/	/	/	/	/	/	/	/	/	/	/
AD33-1 liter Amber HClO4 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AD35-250 ml Amber HClO4 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AD34(DGAM)-250 ml Amber NMG (NMG(C-1)		/	/	/	/	/	/	/	/	/	/	/	/
DC20-40 ml VOA HD (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V01T-40 ml VOA Na2SO3 (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V020-40 ml VOA 1mg (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
DC20-40 ml VOA HPO4 (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
vials 10 vials per 100-1000 L (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
vials 10 vials per 100-10000 L (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
MP10-125 ml, Sterile Plastic (N/A - tall)		/	/	/	/	/	/	/	/	/	/	/	/
MP20-200 ml, Sterile Plastic (N/A - tall)		/	/	/	/	/	/	/	/	/	/	/	/
	BPIN	/	/	/	/	/	/	/	/	/	/	/	/
BP3A-250 ml Plastic (N/A) (N/A) (N/A) (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
AD200-100 ml Amber Unpreserved vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V020-20 ml, Sterile Plastic (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
DC20-40 ml, Amber Unpreserved vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

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

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



Document Name:  
 Sample Condition Upon Receipt (SCUR)  
 Document No.:  
 F-CAR-CS-083-Rev.07

Document Revised: October 28, 2020  
 Page 2 of 2  
 Issuing Authority:  
 Pace Carolina Quality Office

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DBO/DO5 (water) DOC, LHM

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

Project #

**WO# : 92560774**

PR: NRG

Due Date: 09/24/21

CLIENT: GR-GR Power

Item #	Description	1	2	3	4	5	6	7	8	9	10	11	12
BP40-125 ml, Plastic Unpreserved (N/A) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
BP70-175 ml, Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP90-100 ml, Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP10-1 liter Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP40-125 ml Plastic HDPE (pH < 2) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
BP70-175 ml, plastic HDPE (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
BP40-125 ml Plastic 2N Acetic & NaOH (V-9)		/	/	/	/	/	/	/	/	/	/	/	/
BP40-125 ml Plastic NaOH (pH < 12) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
WDRU wide mouthed glass jar Unpreserved		/	/	/	/	/	/	/	/	/	/	/	/
AG10-1 liter Amber Unpreserved (N/A) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
AG20-1 liter Amber HCl (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG30-250 ml Amber Unpreserved (N/A) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
AG50-1 liter Amber HDPE (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG60-250 ml Amber HDPE (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG80(500ML)-250 ml Amber HDPE (N/A)(D-1)		/	/	/	/	/	/	/	/	/	/	/	/
DO20-40 ml VOA HCl (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V020-40 ml VOA Na2S2O3 (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V030-40 ml VOA Upp (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
DO20-40 ml VOA H2PO4 (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V040 (5 vials per lot) 100-5000 ug (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V050 (5 vials per lot) 100-5000 ug (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
DP20-125 ml, Sterile Plastic (N/A - lot)		/	/	/	/	/	/	/	/	/	/	/	/
DP20-250 ml, Sterile Plastic (N/A - lot)		/	/	/	/	/	/	/	/	/	/	/	/
BP10-250 ml, Plastic (N/A)(D-1)(D-1)		/	/	/	/	/	/	/	/	/	/	/	/
AG60-100 ml Amber Unpreserved vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V050-20 ml, Sterilization vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
DO20-40 ml Amber Unpreserved vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/

**pH Adjustment Log for Preserved Samples**

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

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

20000000

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

Page 1 of 1

<b>Section 1: Chain of Custody</b>	<b>Section 2: Analytical Request</b>	<b>Section 3: Laboratory Information</b>
Date of Collection: _____ Collector: _____ Location: _____ Time of Day: _____ Weather: _____ Other: _____	Sample ID: _____ Quantity: _____ Container: _____ Packaging: _____ Preservation: _____ Other: _____	Laboratory Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Fax: _____ Email: _____

SAMPLE ID	Quantity	Container	Packaging	Preservation	Analysis Test		Residual Chroma (ppm)
					Y/N	Method	
DOHC-1	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-2	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-3	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-4	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-5	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-6	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-7	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-8	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-9	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-10	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-11	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-12	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-13	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-14	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-15	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-16	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-17	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-18	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-19	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-20	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-21	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-22	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-23	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-24	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-25	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-26	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-27	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-28	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-29	10.00	100.00	10.00	10.00	10.00	10.00	10.00
DOHC-30	10.00	100.00	10.00	10.00	10.00	10.00	10.00

APPROVAL SIGNATURES

Collector: \_\_\_\_\_ Date: \_\_\_\_\_

Analyst: \_\_\_\_\_ Date: \_\_\_\_\_

Supervisor: \_\_\_\_\_ Date: \_\_\_\_\_

Lab Director: \_\_\_\_\_ Date: \_\_\_\_\_

JOHN WALTERS

DATE: 4/10/21



**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a DDAL DOCUMENT. All essential fields must be completed accurately.

Page 1 of 2

Case # State/Local Jurisdiction Agency Name Agency Address Agency City Agency State Agency Zip Agency Phone Agency Fax	Requested Report Number Request Date Requested By Requested For Requested By Address Requested By City Requested By State Requested By Zip Requested By Phone Requested By Fax	Analytical Agency Analytical Agency Address Analytical Agency City Analytical Agency State Analytical Agency Zip Analytical Agency Phone Analytical Agency Fax
--	---	--

**SAMPLE ID**  
One Sample per lot  
[Lot #] [ID #]  
Sample lot must be unique

Lot #	ID #	Weight	Volume	Temperature	Time	Location	Container	Notes
0000-01	010001	11.00						
0000-01	010002	11.00						
0000-01	010003	11.00						
0000-01	010004	11.00						
0000-01	010005	11.00						
0000-01	010006	11.00						
0000-01	010007	11.00						
0000-01	010008	11.00						
0000-01	010009	11.00						
0000-01	010010	11.00						
0000-01	010011	11.00						

Lot #	ID #	Weight	Volume	Temperature	Time	Location	Container	Notes	Analysis Test	Requester Agency Phone (Y/N)				Requester Agency Email					
										408	409	410	411	412	413	414	415	416	417
0000-01	010001	11.00							Aspirin Test (UAC)	Y	N	N	N	N	N	N	N	N	N
0000-01	010002	11.00							Cocaine Test (GC/MS)	N	Y	N	N	N	N	N	N	N	N
0000-01	010003	11.00							Heroin Test (GC/MS)	N	Y	N	N	N	N	N	N	N	N
0000-01	010004	11.00							MDA Test	N	Y	N	N	N	N	N	N	N	N
0000-01	010005	11.00							MDA + In-house	N	Y	N	N	N	N	N	N	N	N
0000-01	010006	11.00							Heroin	N	Y	N	N	N	N	N	N	N	N
0000-01	010007	11.00							Other	N	Y	N	N	N	N	N	N	N	N
0000-01	010008	11.00							Aspirin Test (UAC)	Y	N	N	N	N	N	N	N	N	N
0000-01	010009	11.00							Cocaine Test (GC/MS)	N	Y	N	N	N	N	N	N	N	N
0000-01	010010	11.00							Heroin Test (GC/MS)	N	Y	N	N	N	N	N	N	N	N
0000-01	010011	11.00							MDA Test	N	Y	N	N	N	N	N	N	N	N

Jane Rodriguez

9/10/21

7-11-21



Laboratory receiving samples:

Ashville  Edin  Greenwood  Huntersville  Raleigh  Mechanicsville  Asheville  Kannapolis

Client Name: \_\_\_\_\_ Project #: \_\_\_\_\_  
 County: Wake  Chatham  Franklin  Johnston  Wake

Container Seal Requested:  Yes  No  Other \_\_\_\_\_

Packing Material:  Bubble wrap  Bubble bags  None  Other \_\_\_\_\_  
 Temperature: Room  Refrigerated  Frozen  \_\_\_\_\_

Cooler Temp: 1.4 Correlation Factor: 0.1  
 Address: 18000 \_\_\_\_\_

USDA Regulated Mail  (Yes, under sample)  
 Use shipping container as a primary seal when the United States Dept. of SO track mail?  Yes  No

Question	Yes	No	Other	Notes
Shipment is properly sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Shipment is sealed within 10 min?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Shipment is sealed in airtight container?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Shipment is sealed in airtight container?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Sufficient volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Correct container used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Proper container used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Container sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Shipment analyzed (sample type/name)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Sample used March 2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Shipment sealed in airtight container?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Shipment sealed in airtight container?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Shipment sealed in airtight container?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Container/Seal/Label Discrepancy: \_\_\_\_\_

Count discrepancy resolved: \_\_\_\_\_

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager to Lab System: \_\_\_\_\_ Date: \_\_\_\_\_  
 Project Manager QM Review: \_\_\_\_\_ Date: \_\_\_\_\_



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

Project #

Sample: V22, V22-1, V22-100, Grand Central, DRC-02-01-03-01-07  
 # of bottles half of box is to list number of bottles

Method	Sample ID	Volume (mL)	Preservation	Date preservation added	Time from collection to preservation	Temperature of preservation	Lab #
1. pH	V22	100	✓				
2. pH	V22-1	100	✓				
3. pH	V22-100	100	✓				
4. pH	Grand Central	100	✓				
5. pH	DRC-02-01-03-01-07	100	✓				
6. pH	V22	100	✓				
7. pH	V22-1	100	✓				
8. pH	V22-100	100	✓				
9. pH	Grand Central	100	✓				
10. pH	DRC-02-01-03-01-07	100	✓				
11. pH	V22	100	✓				
12. pH	V22-1	100	✓				
13. pH	V22-100	100	✓				
14. pH	Grand Central	100	✓				
15. pH	DRC-02-01-03-01-07	100	✓				
16. pH	V22	100	✓				
17. pH	V22-1	100	✓				
18. pH	V22-100	100	✓				
19. pH	Grand Central	100	✓				
20. pH	DRC-02-01-03-01-07	100	✓				
21. pH	V22	100	✓				
22. pH	V22-1	100	✓				
23. pH	V22-100	100	✓				
24. pH	Grand Central	100	✓				
25. pH	DRC-02-01-03-01-07	100	✓				
26. pH	V22	100	✓				
27. pH	V22-1	100	✓				
28. pH	V22-100	100	✓				
29. pH	Grand Central	100	✓				
30. pH	DRC-02-01-03-01-07	100	✓				

pH Adjustment Log for Preserved Samples

Sample ID	Volume (mL)	Adjustment	Date preservation added	Time from collection to preservation	Temperature of preservation	Lab #

Note: Attention: There is a maximum of 7 days from collection to preservation. Samples that are not preserved within this time frame will be considered "out of spec" and will not be used for data. If you have any questions, please contact the Quality Office at 800-848-1000.

2

QUALIFICATION CRITERIA OF Analytical Equipment Document  
The Department of Health, Education and Welfare, Office of Research and Development, Office of Environmental Health Assessment

Form 1  
 Analytical Equipment  
 Model No. \_\_\_\_\_  
 Manufacturer \_\_\_\_\_  
 Date of Purchase \_\_\_\_\_  
 Date of Installation \_\_\_\_\_  
 Date of Calibration \_\_\_\_\_  
 Date of Maintenance \_\_\_\_\_  
 Date of Inspection \_\_\_\_\_  
 Date of Repair \_\_\_\_\_  
 Date of Replacement \_\_\_\_\_  
 Date of Decommissioning \_\_\_\_\_  
 Date of Disposal \_\_\_\_\_

Form 2  
 Analytical Equipment  
 Model No. \_\_\_\_\_  
 Manufacturer \_\_\_\_\_  
 Date of Purchase \_\_\_\_\_  
 Date of Installation \_\_\_\_\_  
 Date of Calibration \_\_\_\_\_  
 Date of Maintenance \_\_\_\_\_  
 Date of Inspection \_\_\_\_\_  
 Date of Repair \_\_\_\_\_  
 Date of Replacement \_\_\_\_\_  
 Date of Decommissioning \_\_\_\_\_  
 Date of Disposal \_\_\_\_\_

Serial No.	Equipment Name	Model No.	Manufacturer	Date of Purchase	Date of Installation	Date of Calibration	Date of Maintenance	Date of Inspection	Date of Repair	Date of Replacement	Date of Decommissioning	Date of Disposal	Performance	
													Accuracy	Precision
1	ANALYZER	MODEL NO.	MANUFACTURER	DATE OF PURCHASE	DATE OF INSTALLATION	DATE OF CALIBRATION	DATE OF MAINTENANCE	DATE OF INSPECTION	DATE OF REPAIR	DATE OF REPLACEMENT	DATE OF DECOMMISSIONING	DATE OF DISPOSAL	ACCURACY	PRECISION
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														

Form 3  
 Analytical Equipment  
 Model No. \_\_\_\_\_  
 Manufacturer \_\_\_\_\_  
 Date of Purchase \_\_\_\_\_  
 Date of Installation \_\_\_\_\_  
 Date of Calibration \_\_\_\_\_  
 Date of Maintenance \_\_\_\_\_  
 Date of Inspection \_\_\_\_\_  
 Date of Repair \_\_\_\_\_  
 Date of Replacement \_\_\_\_\_  
 Date of Decommissioning \_\_\_\_\_  
 Date of Disposal \_\_\_\_\_

Form 4  
 Analytical Equipment  
 Model No. \_\_\_\_\_  
 Manufacturer \_\_\_\_\_  
 Date of Purchase \_\_\_\_\_  
 Date of Installation \_\_\_\_\_  
 Date of Calibration \_\_\_\_\_  
 Date of Maintenance \_\_\_\_\_  
 Date of Inspection \_\_\_\_\_  
 Date of Repair \_\_\_\_\_  
 Date of Replacement \_\_\_\_\_  
 Date of Decommissioning \_\_\_\_\_  
 Date of Disposal \_\_\_\_\_





October 22, 2021

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

RE: Project: MCDONOUGH AP-2/3/4 RADS  
Pace Project No.: 92560766

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 10, 2021 and September 14, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

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

Enclosures

cc: Stephen Benda  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power  
Kristen Jurinko  
J. Shelby Mobley  
Charles Norton, Southern Company  
Ms. Lauren Petty, Southern Company  
Dawn Prell, Golder Associates Inc.  
Tim Richards, Golder Associates - Atlanta



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MCDONOUGH AP-2/3/4 RADS  
Pace Project No.: 92560766

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### Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 04222CA  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
Delaware Certification  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Florida: Cert E871149 SEKS WET  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas/TNI Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA180012  
Louisiana DEQ/TNI Certification #: 4086  
Maine Certification #: 2017020  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572018-1  
New Hampshire/TNI Certification #: 297617  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-010  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: 02867  
Texas/TNI Certification #: T104704188-17-3  
Utah/TNI Certification #: PA014572017-9  
USDA Soil Permit #: P330-17-00091  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 9526  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad  
Wyoming Certification #: 8TMS-L

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92560766001	DGWC-2	Water	09/09/21 13:10	09/10/21 17:40
92560766002	DGWC-11	Water	09/09/21 09:55	09/10/21 17:40
92560766003	DGWC-12	Water	09/09/21 14:25	09/10/21 17:40
92560766004	DGWC-13	Water	09/09/21 15:10	09/10/21 17:40
92560766005	DGWC-14	Water	09/09/21 15:50	09/10/21 17:40
92560766006	DGWC-15	Water	09/09/21 13:49	09/10/21 17:40
92560766007	DGWC-19	Water	09/09/21 15:48	09/10/21 17:40
92560766008	DGWC-21	Water	09/09/21 12:43	09/10/21 17:40
92560766009	DGWC-23	Water	09/09/21 12:15	09/10/21 17:40
92560766010	EB-1	Water	09/09/21 16:40	09/10/21 17:40
92560766011	FB-1	Water	09/09/21 13:40	09/10/21 17:40
92560766012	DGWC-4	Water	09/10/21 11:08	09/10/21 17:40
92560766013	DGWC-5	Water	09/10/21 14:32	09/10/21 17:40
92560766014	DUP-2	Water	09/10/21 00:00	09/10/21 17:40
92560766015	DGWC-9	Water	09/10/21 11:32	09/10/21 17:40
92560766016	FB-2	Water	09/10/21 11:00	09/10/21 17:40
92560766017	DGWC-10	Water	09/10/21 13:30	09/10/21 17:40
92560766018	DGWC-20	Water	09/10/21 12:46	09/10/21 17:40
92560766019	DGWC-22	Water	09/10/21 12:58	09/10/21 17:40
92560766020	DGWC-47	Water	09/10/21 11:00	09/10/21 17:40
92560766021	DGWC-48	Water	09/10/21 10:56	09/10/21 17:40
92560766022	DUP-1	Water	09/10/21 00:00	09/10/21 17:40
92560766023	EB-2	Water	09/10/21 10:35	09/10/21 17:40
92560766024	DGWC-8	Water	09/13/21 11:00	09/14/21 09:35
92560766025	DGWC-17	Water	09/13/21 11:04	09/14/21 09:35
92560766026	DGWC-42	Water	09/13/21 15:00	09/14/21 09:35

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92560766001	DGWC-2	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766002	DGWC-11	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766003	DGWC-12	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766004	DGWC-13	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766005	DGWC-14	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766006	DGWC-15	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766007	DGWC-19	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766008	DGWC-21	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766009	DGWC-23	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766010	EB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766011	FB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766012	DGWC-4	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560766013	DGWC-5	EPA 9315	SLC	1	PASI-PA

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92560766014	DUP-2	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92560766015	DGWC-9	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92560766016	FB-2	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92560766017	DGWC-10	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92560766018	DGWC-20	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92560766019	DGWC-22	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92560766020	DGWC-47	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92560766021	DGWC-48	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92560766022	DUP-1	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92560766023	EB-2	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92560766024	DGWC-8	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92560766025	DGWC-17	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

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Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92560766026	DGWC-42	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	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 RADS

Pace Project No.: 92560766

**Sample: DGWC-2**      **Lab ID: 92560766001**      Collected: 09/09/21 13:10      Received: 09/10/21 17:40      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	<b>0.400 ± 0.296 (0.524)</b> <b>C:73% T:NA</b>	pCi/L	10/06/21 08:14	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.815 ± 0.452 (0.821)</b> <b>C:70% T:82%</b>	pCi/L	09/30/21 11:25	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.22 ± 0.748 (1.35)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

**Sample: DGWC-11**      **Lab ID: 92560766002**      Collected: 09/09/21 09:55      Received: 09/10/21 17:40      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	<b>0.416 ± 0.235 (0.313)</b> <b>C:91% T:NA</b>	pCi/L	10/06/21 08:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.782 ± 0.472 (0.892)</b> <b>C:66% T:91%</b>	pCi/L	09/30/21 11:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.20 ± 0.707 (1.21)</b>	pCi/L	10/06/21 15:27	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

**Sample: DGWC-12**      **Lab ID: 92560766003**      Collected: 09/09/21 14:25      Received: 09/10/21 17:40      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	<b>0.230 ± 0.216 (0.415)</b> <b>C:91% T:NA</b>	pCi/L	10/06/21 08:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.55 ± 0.571 (0.868)</b> <b>C:70% T:86%</b>	pCi/L	09/30/21 11:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.78 ± 0.787 (1.28)</b>	pCi/L	10/06/21 15:27	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

**Sample: DGWC-13**      **Lab ID: 92560766004**      Collected: 09/09/21 15:10      Received: 09/10/21 17:40      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	<b>0.361 ± 0.289 (0.546)</b> <b>C:86% T:NA</b>	pCi/L	10/06/21 08:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.870 ± 0.436 (0.763)</b> <b>C:70% T:89%</b>	pCi/L	09/30/21 11:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.23 ± 0.725 (1.31)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-14</b> <b>Lab ID: 92560766005</b> Collected: 09/09/21 15:50      Received: 09/10/21 17:40      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.502 ± 0.282 (0.433)</b> <b>C:90% T:NA</b>	pCi/L	10/06/21 08:14	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.141 ± 0.358 (0.800)</b> <b>C:69% T:80%</b>	pCi/L	09/30/21 11:29	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.643 ± 0.640 (1.23)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

**Sample: DGWC-15**      **Lab ID: 92560766006**      Collected: 09/09/21 13:49      Received: 09/10/21 17:40      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	<b>0.259 ± 0.229 (0.432)</b> <b>C:86% T:NA</b>	pCi/L	10/06/21 08:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.365 ± 0.345 (0.702)</b> <b>C:68% T:89%</b>	pCi/L	09/30/21 11:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.624 ± 0.574 (1.13)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

**Sample: DGWC-19**      **Lab ID: 92560766007**      Collected: 09/09/21 15:48      Received: 09/10/21 17:40      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	<b>0.126 ± 0.212 (0.477)</b> <b>C:92% T:NA</b>	pCi/L	10/06/21 08:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.113 ± 0.315 (0.708)</b> <b>C:70% T:84%</b>	pCi/L	09/30/21 11:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.239 ± 0.527 (1.19)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

**Sample: DGWC-21**      **Lab ID: 92560766008**      Collected: 09/09/21 12:43      Received: 09/10/21 17:40      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	<b>0.148 ± 0.169 (0.334)</b> <b>C:91% T:NA</b>	pCi/L	10/06/21 08:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.554 ± 0.407 (0.793)</b> <b>C:68% T:83%</b>	pCi/L	09/30/21 11:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.702 ± 0.576 (1.13)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-23</b> <b>Lab ID: 92560766009</b> Collected: 09/09/21 12:15      Received: 09/10/21 17:40      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.903 ± 0.358 (0.407)</b> <b>C:84% T:NA</b>	pCi/L	10/06/21 08:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.903 ± 0.478 (0.862)</b> <b>C:69% T:87%</b>	pCi/L	09/30/21 11:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.81 ± 0.836 (1.27)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: EB-1</b> <b>Lab ID: 92560766010</b> Collected: 09/09/21 16:40      Received: 09/10/21 17:40      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.526 ± 0.309 (0.467)</b> <b>C:70% T:NA</b>	pCi/L	10/06/21 08:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.468 ± 0.381 (0.756)</b> <b>C:70% T:87%</b>	pCi/L	09/30/21 11:30	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.994 ± 0.690 (1.22)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

**Sample: FB-1**      **Lab ID: 92560766011**      Collected: 09/09/21 13:40      Received: 09/10/21 17:40      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	<b>0.138 ± 0.176 (0.365)</b> <b>C:98% T:NA</b>	pCi/L	10/06/21 08:19	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.488 ± 0.395 (0.787)</b> <b>C:67% T:90%</b>	pCi/L	10/04/21 12:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.626 ± 0.571 (1.15)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

**Sample: DGWC-4**      **Lab ID: 92560766012**      Collected: 09/10/21 11:08      Received: 09/10/21 17:40      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	<b>0.266 ± 0.236 (0.452)</b> <b>C:89% T:NA</b>	pCi/L	10/06/21 08:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.19 ± 0.531 (0.896)</b> <b>C:67% T:86%</b>	pCi/L	10/04/21 12:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.46 ± 0.767 (1.35)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

**Sample: DGWC-5**      **Lab ID: 92560766013**      Collected: 09/10/21 14:32      Received: 09/10/21 17:40      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	<b>0.121 ± 0.167 (0.359)</b> <b>C:100% T:NA</b>	pCi/L	10/06/21 08:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.03 ± 0.455 (0.743)</b> <b>C:69% T:87%</b>	pCi/L	10/04/21 12:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.15 ± 0.622 (1.10)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

**Sample: DUP-2**      **Lab ID: 92560766014**      Collected: 09/10/21 00:00      Received: 09/10/21 17:40      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	<b>0.623 ± 0.329 (0.538)</b> <b>C:98% T:NA</b>	pCi/L	10/06/21 08:21	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.732 ± 0.416 (0.752)</b> <b>C:67% T:88%</b>	pCi/L	10/04/21 12:04	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.36 ± 0.745 (1.29)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-9</b> <b>Lab ID: 92560766015</b> Collected: 09/10/21 11:32      Received: 09/10/21 17:40      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.252 ± 0.208 (0.378)</b> <b>C:102% T:NA</b>	pCi/L	10/06/21 08:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.03 ± 0.429 (0.667)</b> <b>C:69% T:88%</b>	pCi/L	10/04/21 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.28 ± 0.637 (1.05)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

**Sample: FB-2**      **Lab ID: 92560766016**      Collected: 09/10/21 11:00      Received: 09/10/21 17:40      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	<b>0.114 ± 0.261 (0.608)</b> <b>C:100% T:NA</b>	pCi/L	10/06/21 08:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.418 ± 0.379 (0.768)</b> <b>C:64% T:91%</b>	pCi/L	10/04/21 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.532 ± 0.640 (1.38)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

**Sample: DGWC-10**      **Lab ID: 92560766017**      Collected: 09/10/21 13:30      Received: 09/10/21 17:40      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	<b>0.383 ± 0.234 (0.356)</b> <b>C:97% T:NA</b>	pCi/L	10/06/21 08:21	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.499 ± 0.382 (0.748)</b> <b>C:69% T:87%</b>	pCi/L	10/04/21 14:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.882 ± 0.616 (1.10)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-20</b> <b>Lab ID: 92560766018</b> Collected: 09/10/21 12:46      Received: 09/10/21 17:40      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0670 ± 0.173 (0.415)</b> <b>C:100% T:NA</b>	pCi/L	10/06/21 08:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.622 ± 0.401 (0.762)</b> <b>C:69% T:92%</b>	pCi/L	10/04/21 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.689 ± 0.574 (1.18)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

**Sample: DGWC-22**      **Lab ID: 92560766019**      Collected: 09/10/21 12:58      Received: 09/10/21 17:40      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	<b>0.0544 ± 0.175 (0.429)</b> <b>C:98% T:NA</b>	pCi/L	10/06/21 08:21	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.562 ± 0.377 (0.709)</b> <b>C:72% T:79%</b>	pCi/L	10/04/21 14:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.616 ± 0.552 (1.14)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-47</b> <b>Lab ID: 92560766020</b> Collected: 09/10/21 11:00      Received: 09/10/21 17:40      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.479 ± 0.271 (0.409)</b> <b>C:92% T:NA</b>	pCi/L	10/06/21 08:24	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>1.84 ± 0.600 (0.792)</b> <b>C:68% T:85%</b>	pCi/L	10/04/21 14:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>2.32 ± 0.871 (1.20)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-48</b> <b>Lab ID: 92560766021</b> Collected: 09/10/21 10:56      Received: 09/10/21 17:40      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.387 ± 0.218 (0.281)</b> <b>C:97% T:NA</b>	pCi/L	10/06/21 08:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.82 ± 0.659 (0.967)</b> <b>C:64% T:79%</b>	pCi/L	10/04/21 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.21 ± 0.877 (1.25)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

**Sample: DUP-1**      **Lab ID: 92560766022**      Collected: 09/10/21 00:00      Received: 09/10/21 17:40      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	<b>0.294 ± 0.224 (0.399)</b> <b>C:99% T:NA</b>	pCi/L	10/06/21 08:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.41 ± 0.518 (0.754)</b> <b>C:65% T:93%</b>	pCi/L	10/04/21 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.70 ± 0.742 (1.15)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

**Sample: EB-2**      **Lab ID: 92560766023**      Collected: 09/10/21 10:35      Received: 09/10/21 17:40      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	<b>0.159 ± 0.181 (0.368)</b> <b>C:99% T:NA</b>	pCi/L	10/06/21 08:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.409 ± 0.333 (0.655)</b> <b>C:67% T:94%</b>	pCi/L	10/04/21 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.568 ± 0.514 (1.02)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-8</b> <b>Lab ID: 92560766024</b> Collected: 09/13/21 11:00      Received: 09/14/21 09:35      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>-0.0716 ± 0.187 (0.547)</b> <b>C:77% T:NA</b>	pCi/L	10/06/21 08:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.916 ± 0.433 (0.749)</b> <b>C:75% T:94%</b>	pCi/L	09/30/21 11:25	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.916 ± 0.620 (1.30)</b>	pCi/L	10/06/21 15:27	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.171 ± 0.263 (0.586)</b> <b>C:95% T:NA</b>	pCi/L	10/06/21 08:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.679 ± 0.413 (0.777)</b> <b>C:74% T:88%</b>	pCi/L	09/30/21 11:25	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.850 ± 0.676 (1.36)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-42</b> <b>Lab ID: 92560766026</b> Collected: 09/13/21 15:00      Received: 09/14/21 09:35      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.128 ± 0.225 (0.510)</b> <b>C:85% T:NA</b>	pCi/L	10/06/21 08:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>1.02 ± 0.465 (0.775)</b> <b>C:67% T:88%</b>	pCi/L	09/30/21 11:25	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.15 ± 0.690 (1.29)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

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QC Batch:	465341	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92560766001, 92560766002, 92560766003, 92560766004, 92560766005, 92560766006, 92560766007, 92560766008, 92560766009, 92560766010, 92560766024, 92560766025, 92560766026

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METHOD BLANK: 2247067 Matrix: Water

Associated Lab Samples: 92560766001, 92560766002, 92560766003, 92560766004, 92560766005, 92560766006, 92560766007, 92560766008, 92560766009, 92560766010, 92560766024, 92560766025, 92560766026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.554 ± 0.366 (0.696) C:72% T:88%	pCi/L	09/30/21 11:24	

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.

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2/3/4 RADS  
 Pace Project No.: 92560766

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QC Batch:	465343	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92560766011, 92560766012, 92560766013, 92560766014, 92560766015, 92560766016, 92560766017, 92560766018, 92560766019, 92560766020, 92560766021, 92560766022, 92560766023

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METHOD BLANK: 2247069 Matrix: Water

Associated Lab Samples: 92560766011, 92560766012, 92560766013, 92560766014, 92560766015, 92560766016, 92560766017, 92560766018, 92560766019, 92560766020, 92560766021, 92560766022, 92560766023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.209 ± 0.287 (0.612) C:69% T:89%	pCi/L	10/04/21 11:58	

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

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2/3/4 RADS  
 Pace Project No.: 92560766

QC Batch: 465342 Analysis Method: EPA 9315  
 QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium  
 Laboratory: Pace Analytical Services - Greensburg  
 Associated Lab Samples: 92560766001, 92560766002, 92560766003, 92560766004, 92560766005, 92560766006, 92560766007,  
 92560766008, 92560766009, 92560766010, 92560766024, 92560766025, 92560766026

METHOD BLANK: 2247068 Matrix: Water  
 Associated Lab Samples: 92560766001, 92560766002, 92560766003, 92560766004, 92560766005, 92560766006, 92560766007,  
 92560766008, 92560766009, 92560766010, 92560766024, 92560766025, 92560766026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.189 ± 0.181 (0.337) C:97% T:NA	pCi/L	10/06/21 08:11	

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

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2/3/4 RADS  
 Pace Project No.: 92560766

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QC Batch:	465344	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92560766011, 92560766012, 92560766013, 92560766014, 92560766015, 92560766016, 92560766017, 92560766018, 92560766019, 92560766020, 92560766021, 92560766022, 92560766023

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METHOD BLANK: 2247072 Matrix: Water

Associated Lab Samples: 92560766011, 92560766012, 92560766013, 92560766014, 92560766015, 92560766016, 92560766017, 92560766018, 92560766019, 92560766020, 92560766021, 92560766022, 92560766023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00717 ± 0.168 (0.443) C:96% T:NA	pCi/L	10/06/21 08:19	

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

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## QUALIFIERS

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2/3/4 RADS

Pace Project No.: 92560766

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560766001	DGWC-2	EPA 9315	465342		
92560766002	DGWC-11	EPA 9315	465342		
92560766003	DGWC-12	EPA 9315	465342		
92560766004	DGWC-13	EPA 9315	465342		
92560766005	DGWC-14	EPA 9315	465342		
92560766006	DGWC-15	EPA 9315	465342		
92560766007	DGWC-19	EPA 9315	465342		
92560766008	DGWC-21	EPA 9315	465342		
92560766009	DGWC-23	EPA 9315	465342		
92560766010	EB-1	EPA 9315	465342		
92560766011	FB-1	EPA 9315	465344		
92560766012	DGWC-4	EPA 9315	465344		
92560766013	DGWC-5	EPA 9315	465344		
92560766014	DUP-2	EPA 9315	465344		
92560766015	DGWC-9	EPA 9315	465344		
92560766016	FB-2	EPA 9315	465344		
92560766017	DGWC-10	EPA 9315	465344		
92560766018	DGWC-20	EPA 9315	465344		
92560766019	DGWC-22	EPA 9315	465344		
92560766020	DGWC-47	EPA 9315	465344		
92560766021	DGWC-48	EPA 9315	465344		
92560766022	DUP-1	EPA 9315	465344		
92560766023	EB-2	EPA 9315	465344		
92560766024	DGWC-8	EPA 9315	465342		
92560766025	DGWC-17	EPA 9315	465342		
92560766026	DGWC-42	EPA 9315	465342		
92560766001	DGWC-2	EPA 9320	465341		
92560766002	DGWC-11	EPA 9320	465341		
92560766003	DGWC-12	EPA 9320	465341		
92560766004	DGWC-13	EPA 9320	465341		
92560766005	DGWC-14	EPA 9320	465341		
92560766006	DGWC-15	EPA 9320	465341		
92560766007	DGWC-19	EPA 9320	465341		
92560766008	DGWC-21	EPA 9320	465341		
92560766009	DGWC-23	EPA 9320	465341		
92560766010	EB-1	EPA 9320	465341		
92560766011	FB-1	EPA 9320	465343		
92560766012	DGWC-4	EPA 9320	465343		
92560766013	DGWC-5	EPA 9320	465343		
92560766014	DUP-2	EPA 9320	465343		
92560766015	DGWC-9	EPA 9320	465343		
92560766016	FB-2	EPA 9320	465343		
92560766017	DGWC-10	EPA 9320	465343		
92560766018	DGWC-20	EPA 9320	465343		
92560766019	DGWC-22	EPA 9320	465343		
92560766020	DGWC-47	EPA 9320	465343		
92560766021	DGWC-48	EPA 9320	465343		

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: MCDONOUGH AP-2/3/4 RADS  
 Pace Project No.: 92560766

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560766022	DUP-1	EPA 9320	465343		
92560766023	EB-2	EPA 9320	465343		
92560766024	DGWC-8	EPA 9320	465341		
92560766025	DGWC-17	EPA 9320	465341		
92560766026	DGWC-42	EPA 9320	465341		
92560766001	DGWC-2	Total Radium Calculation	467010		
92560766002	DGWC-11	Total Radium Calculation	467010		
92560766003	DGWC-12	Total Radium Calculation	467010		
92560766004	DGWC-13	Total Radium Calculation	467010		
92560766005	DGWC-14	Total Radium Calculation	467010		
92560766006	DGWC-15	Total Radium Calculation	467010		
92560766007	DGWC-19	Total Radium Calculation	467010		
92560766008	DGWC-21	Total Radium Calculation	467010		
92560766009	DGWC-23	Total Radium Calculation	467010		
92560766010	EB-1	Total Radium Calculation	467010		
92560766011	FB-1	Total Radium Calculation	467010		
92560766012	DGWC-4	Total Radium Calculation	467010		
92560766013	DGWC-5	Total Radium Calculation	467010		
92560766014	DUP-2	Total Radium Calculation	467010		
92560766015	DGWC-9	Total Radium Calculation	467010		
92560766016	FB-2	Total Radium Calculation	467011		
92560766017	DGWC-10	Total Radium Calculation	467011		
92560766018	DGWC-20	Total Radium Calculation	467011		
92560766019	DGWC-22	Total Radium Calculation	467011		
92560766020	DGWC-47	Total Radium Calculation	467011		
92560766021	DGWC-48	Total Radium Calculation	467011		
92560766022	DUP-1	Total Radium Calculation	467011		
92560766023	EB-2	Total Radium Calculation	467011		
92560766024	DGWC-8	Total Radium Calculation	467010		
92560766025	DGWC-17	Total Radium Calculation	467010		
92560766026	DGWC-42	Total Radium Calculation	467010		

**REPORT OF LABORATORY ANALYSIS**

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Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia Power

Project #:

WO#: **92560766**

Courier:

Commercial

Fed Ex

UPS

USPS

Client

Pace

Other



92560766

Custody Seal Present?

Yes

No

Seals Intact?

Yes

No

Date/Initials Person Examining Contents: MT 11/18/21

Packing Material:

Bubble Wrap

Bubble Bags

None

Other

Biological Tissue Present?

Yes

No

N/A

Thermometer:

Kit Qty ID:

230

Type of Ice:

Dry

Live

None

Cooler Temp:

3.4

Correction Factor:

± 0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C):

3.5

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, HI, or SC (check mass)?

Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?

Yes  No

Comments/Discrepancy:

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCUR Review:

Date:

Project Manager SRP Review:

Date:



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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRD/3015 (water) DOC, LMg

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

Project # **WO# : 92560766**

PH: NYS

Due Date: 10/01/21

CLIENT: GR-GA Power

Sample	BP40-125 ml, Plastic, Unpreserved (N/A) (D-)	BP40-250 ml, Plastic, Unpreserved (N/A)	BP70-500 ml, Plastic, Unpreserved (N/A)	BP70-1 liter Plastic, Unpreserved (N/A)	BP40-125 ml, Plastic HDPE (pH < 2) (D-)	BP40-250 ml, plastic HDPE (pH < 2)	BP40-125 ml, Plastic 24 Acetate & NaOH (V)	BP40-125 ml, Plastic, NaOH (pH > 12) (D-)	BP70-1 liter washed Glass jar Unpreserved	AG10-1 liter Amber Unpreserved (N/A) (D-)	AG20-1 liter Amber HD (pH < 2)	AG20-250 ml, Amber Unpreserved (N/A) (D-)	AG20-1 liter Amber HDPE (pH < 2)	AG20-250 ml, Amber HDPE (pH < 2)	AG20-250 ml, Amber HDPE (N/A)(D-)	0000-40 ml, VOA HD (N/A)	V000-40 ml, VOA Na2S2O3 (N/A)	V000-40 ml, VOA Tap (N/A)	0000-40 ml, VOA HDPE (N/A)	V000 (3 vials per 100-500 L) (N/A)	V100 (3 vials per 100-500 L) (N/A)	SP20-125 ml, Sterile Plastic (N/A) - lab	SP20-250 ml, Sterile Plastic (N/A) - lab		BP70-125 ml, Plastic (N/A) (3, 5, 7)	AG00-100 ml, Amber Unpreserved vials (N/A)	V000-10 ml, Sterilization vials (N/A)	0000-40 ml, Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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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 DEMO Certification Office (ie. Out of hole, incorrect preservative, out of temp, incorrect containers).



Document Name:  
 Sample Condition Upon Receipt (SCUR)  
 Document No.:  
 F-CAR-CS-093-Rev.07

Document Revised: October 28, 2020  
 Page 2 of 2  
 Issuing Authority:  
 Pace Carolina Quality Office

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRD/8015 (water) BOC, U/Hg

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

Project #

WO#: 92560766

PH: N/A

Due Date: 10/01/21

CLIENT: GR-GR Power

Brand	Material	1	2	3	4	5	6	7	8	9	10	11	12
BP40	125 mL Plastic Unpreserved (N/A) (D-)	/	/	/	/	/	/	/	/	/	/	/	/
BP50	250 mL Plastic Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
BP50	500 mL Plastic Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
BP10	1 liter Plastic Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
BP40	125 mL Plastic HD504 (pH < 2) (D-)	/	/	/	/	/	/	/	/	/	/	/	/
BP50	250 mL plastic HD504 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
BP40	125 mL Plastic 2N Acetate & NaOH (+9)	/	/	/	/	/	/	/	/	/	/	/	/
BP40	125 mL Plastic NaOH (pH > 12) (D-)	/	/	/	/	/	/	/	/	/	/	/	/
WGRU	Wide mouthed Glass Jar Unpreserved	/	/	/	/	/	/	/	/	/	/	/	/
AG11	1 liter Amber Unpreserved (N/A) (D-)	/	/	/	/	/	/	/	/	/	/	/	/
AG11	1 liter Amber HD (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
AG11	250 mL Amber Unpreserved (N/A) (D-)	/	/	/	/	/	/	/	/	/	/	/	/
AG11	1 liter Amber HD504 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
AG11	250 mL Amber HD504 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
AG11	500 mL Amber HD504 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
AG11	AG11(0.3M)-250 mL Amber HD504 (N/A)(D-)	/	/	/	/	/	/	/	/	/	/	/	/
D001	40 mL VOA HD (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
V001	40 mL VOA Na2CO3 (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
V001	40 mL VOA Hg (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
D001	40 mL VOA HD504 (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
V001	8 vials per bag 5015 (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
V001	2 vials per bag 5015 (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
SP01	125 mL Sample Plastic (N/A - 100)	/	/	/	/	/	/	/	/	/	/	/	/
SP01	250 mL Sample Plastic (N/A - 100)	/	/	/	/	/	/	/	/	/	/	/	/
	B.P.M.	/	/	/	/	/	/	/	/	/	/	/	/
BP10	250 mL Plastic HD504 (D.L. 9.7)	/	/	/	/	/	/	/	/	/	/	/	/
AG00	100 mL Amber Unpreserved vials (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
V050	20 mL Scintillation vials (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
D050	40 mL Amber Unpreserved vials (N/A)	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

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

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



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a critical document. All its entries must be completed accurately.

Page: 1 of 2

<b>Section A</b> Client Information	<b>Section B</b> Requester Information	<b>Section C</b> Requester Signature
Agency Name: [Blank] Agency Address: [Blank] Agency Phone: [Blank] Agency Fax: [Blank] Agency Email: [Blank]	Requester Name: [Blank] Requester Title: [Blank] Requester Address: [Blank] Requester Phone: [Blank] Requester Email: [Blank]	Requester Signature: [Blank] Date: [Blank]
<b>Section D</b> Requester Signature	<b>Section E</b> Requester Signature	<b>Section F</b> Requester Signature
[Blank]	[Blank]	[Blank]

SAMPLE ID	Date Collected	Time Collected	Collector	Collector Title	Collector Signature	Collector Date	Collector Agency	Requester Signature			Requester Agency
								Signature	Date	Agency	
00000-1	06/20/2011	10:30	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
00000-2	06/20/2011	11:00	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
00000-3	06/20/2011	11:30	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
00000-4	06/20/2011	12:00	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
00000-5	06/20/2011	12:30	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
00000-6	06/20/2011	13:00	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
00000-7	06/20/2011	13:30	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
00000-8	06/20/2011	14:00	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
00000-9	06/20/2011	14:30	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
00000-10	06/20/2011	15:00	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
00000-11	06/20/2011	15:30	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
00000-12	06/20/2011	16:00	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
00000-13	06/20/2011	16:30	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
00000-14	06/20/2011	17:00	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
00000-15	06/20/2011	17:30	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
00000-16	06/20/2011	18:00	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
00000-17	06/20/2011	18:30	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
00000-18	06/20/2011	19:00	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
00000-19	06/20/2011	19:30	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
00000-20	06/20/2011	20:00	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]

*For Fusion 11/20/10 Charles Ford (Fusion 11/20/10)*

*Work Worksheet*

*Work Request # 11/20/10*



**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

<b>Section 1</b> Agency Information Agency Name: <u>Orange County Sheriff's Dept</u> Agency Address: <u>1000 N. Tustin Ave</u> Agency City/State/Zip: <u>Orange, CA 92667</u> Agency Phone: <u>714 940-1234</u>		<b>Section 2</b> Requester Information Requester Name: <u>John Doe</u> Requester Title: <u>Officer</u> Requester Agency: <u>Orange County Sheriff's Dept</u> Requester Address: <u>123 Main St</u> Requester City/State/Zip: <u>Orange, CA 92667</u> Requester Phone: <u>714 555-1234</u>		<b>Section 3</b> Analytical Information Analytical Agency: <u>Orange County Sheriff's Dept</u> Analytical Address: <u>1000 N. Tustin Ave</u> Analytical City/State/Zip: <u>Orange, CA 92667</u> Analytical Phone: <u>714 940-1234</u>	
<b>Section 4</b> Sample Information Sample ID: <u>OC-1234</u> Date Collected: <u>10/10/2011</u> Time Collected: <u>10:00 AM</u> Location Collected: <u>123 Main St</u> Sample Description: <u>Seizure of cash</u> Quantity: <u>100 bills</u> Container: <u>Ziplock bag</u> Preservatives: <u>None</u> Analysis Test: <u>YSI</u> App. Info Test Book: <u>YSI 17</u> C.F. DOC. NO.: <u>YSI 17</u> Reference: <u>YSI 17</u>		<b>Section 5</b> Chain of Custody Name: <u>John Doe</u> Title: <u>Officer</u> Agency: <u>Orange County Sheriff's Dept</u> Signature: <u>[Signature]</u> Date: <u>10/10/2011</u>		<b>Section 6</b> Laboratory Information Laboratory Name: <u>Orange County Sheriff's Dept</u> Laboratory Address: <u>1000 N. Tustin Ave</u> Laboratory City/State/Zip: <u>Orange, CA 92667</u> Laboratory Phone: <u>714 940-1234</u>	
<b>Section 7</b> Additional Information Remarks: <u>Seizure of cash from 123 Main St</u> Date: <u>10/10/2011</u> Time: <u>10:00 AM</u> Location: <u>123 Main St</u> Quantity: <u>100 bills</u> Container: <u>Ziplock bag</u> Preservatives: <u>None</u> Analysis Test: <u>YSI</u> App. Info Test Book: <u>YSI 17</u> C.F. DOC. NO.: <u>YSI 17</u> Reference: <u>YSI 17</u>		<b>Section 8</b> Signatures Requester Signature: <u>[Signature]</u> Date: <u>10/10/2011</u> Title: <u>Officer</u> Agency: <u>Orange County Sheriff's Dept</u>		<b>Section 9</b> Laboratory Signature Laboratory Signature: <u>[Signature]</u> Date: <u>10/10/2011</u> Title: <u>Officer</u> Agency: <u>Orange County Sheriff's Dept</u>	



Laboratory receiving samples:

Ashville  Edin  Greenwood  Huntersville  Raleigh  Mechanicsville  Asheville  Kannapolis

Client Name: GA Tower Project #:

County: Wake  Wake  Wake

Container Seal Required?  Yes  No  Other

Packing Material:  Bubble wrap  Bubble bag  None  Other

Cooler Temp: 1.4 Correlation Factor: 0.1  
USDA Regulated Mail  Yes  No

USDA Regulated Mail  Yes  No

Initials of Analyst Received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Sample Received within 10 min?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2
Plant held from Analysis (10) or (1)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3
Any Spill Reported from Receipt of?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4
Sufficient Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5
Correct Container Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6
Proper Container Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
Container Sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
Original Analyte Sample Label/Name?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9
Sample Label Match CSCL?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10
Signature, Date/Time/ID/Initials/Name	<u>W</u>			
Sample Label in CSCL Match CSCL-Form?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11
Time Rec'd, Range?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12
Ignored CSCL Seal Problem?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13

Container/Seal/Label Discrepancy?  Yes  No

Count of CSCL Containers: 1

Person(s) contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager to Lab System: \_\_\_\_\_ Date: \_\_\_\_\_  
Project Manager QM Review: \_\_\_\_\_ Date: \_\_\_\_\_



2

QUALIFICATION CRITERIA OF Analytical Equipment Document  
 The Department will use the "Occurrence" of several tests used for analytical equipment

Section 1		Section 2		Section 3		Section 4		Section 5	
Equipment Name		Manufacturer		Model		Serial Number		Date of Purchase	
Equipment ID		Location		Operator		Maintenance		Calibration	
SAMPLE ID		TEST NAME		METHOD		FREQUENCY		REMARKS	
1	Sample 1	Test 1	Method 1	Operator 1	Frequency 1	Remarks 1	Calibration 1	Remarks 1	Calibration 1
2	Sample 2	Test 2	Method 2	Operator 2	Frequency 2	Remarks 2	Calibration 2	Remarks 2	Calibration 2
3	Sample 3	Test 3	Method 3	Operator 3	Frequency 3	Remarks 3	Calibration 3	Remarks 3	Calibration 3
4	Sample 4	Test 4	Method 4	Operator 4	Frequency 4	Remarks 4	Calibration 4	Remarks 4	Calibration 4
5	Sample 5	Test 5	Method 5	Operator 5	Frequency 5	Remarks 5	Calibration 5	Remarks 5	Calibration 5
6	Sample 6	Test 6	Method 6	Operator 6	Frequency 6	Remarks 6	Calibration 6	Remarks 6	Calibration 6
7	Sample 7	Test 7	Method 7	Operator 7	Frequency 7	Remarks 7	Calibration 7	Remarks 7	Calibration 7
8	Sample 8	Test 8	Method 8	Operator 8	Frequency 8	Remarks 8	Calibration 8	Remarks 8	Calibration 8
9	Sample 9	Test 9	Method 9	Operator 9	Frequency 9	Remarks 9	Calibration 9	Remarks 9	Calibration 9
10	Sample 10	Test 10	Method 10	Operator 10	Frequency 10	Remarks 10	Calibration 10	Remarks 10	Calibration 10

# Quality Control Sample Performance Assessment

Additional Manual Entries for All Fields Highlighted in Yellow.



TRU  
 10/1/11  
 10/1/11  
 10/1/11

<p>Sample Manual Entries for All Fields Highlighted in Yellow.</p> <p>TRU          10/1/11          10/1/11          10/1/11</p> <p>10/1/11</p> <p>10/1/11</p> <p>10/1/11</p>	<p>TRU          10/1/11          10/1/11          10/1/11</p>
---	---

<p>TRU          10/1/11          10/1/11          10/1/11</p>	<p>TRU          10/1/11          10/1/11          10/1/11</p>
---	---

<p>TRU          10/1/11          10/1/11          10/1/11          10/1/11          10/1/11          10/1/11          10/1/11          10/1/11          10/1/11          10/1/11          10/1/11</p>	<p>TRU          10/1/11          10/1/11          10/1/11          10/1/11          10/1/11          10/1/11          10/1/11          10/1/11          10/1/11          10/1/11          10/1/11          10/1/11</p>
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<p>TRU          10/1/11          10/1/11          10/1/11</p>	<p>TRU          10/1/11          10/1/11          10/1/11</p>
---	---

<p>TRU          10/1/11</p>	<p>TRU          10/1/11</p>
--	--

(10/1/11)

14-0000000000



## Quality Control Sample Performance Assessment



Individual Member Use - Do Not Reproduce or Post

Date: \_\_\_\_\_  
 Station: \_\_\_\_\_  
 Depth: \_\_\_\_\_  
 Tidal: \_\_\_\_\_

**QC Sample Description**

Sample Name	QC1
QC Type	Blank
QC Material	Distilled Water
QC Container	100 mL Polypropylene Bottle
QC Date	10/15/2019
QC Time	14:30

**QC Sample Performance Summary**

Parameter	QC Value	QC Range	QC Status
Temperature	14.5	14.0 - 15.0	Pass
pH	7.2	7.0 - 7.4	Pass
Salinity	0.0	0.0 - 0.1	Pass
Dissolved Oxygen	0.0	0.0 - 0.1	Pass
Ammonia Nitrogen	0.0	0.0 - 0.1	Pass
Nitrite Nitrogen	0.0	0.0 - 0.1	Pass
Nitrate Nitrogen	0.0	0.0 - 0.1	Pass
Orthophosphate	0.0	0.0 - 0.1	Pass
Orthosilicate	0.0	0.0 - 0.1	Pass
Chlorophyll a	0.0	0.0 - 0.1	Pass
Chlorophyll b	0.0	0.0 - 0.1	Pass
Chlorophyll c	0.0	0.0 - 0.1	Pass
Chlorophyll Total	0.0	0.0 - 0.1	Pass
Phaeophytin	0.0	0.0 - 0.1	Pass
Phaeopigment	0.0	0.0 - 0.1	Pass
Phaeocystin	0.0	0.0 - 0.1	Pass
Phaeoerythrin	0.0	0.0 - 0.1	Pass
Phaeoalbumen	0.0	0.0 - 0.1	Pass
Phaeoamphiphil	0.0	0.0 - 0.1	Pass
Phaeopectin	0.0	0.0 - 0.1	Pass
Phaeoalgin	0.0	0.0 - 0.1	Pass
Phaeopectin	0.0	0.0 - 0.1	Pass
Phaeoalgin	0.0	0.0 - 0.1	Pass

**QC Sample Assessment**

QC Status	Pass
QC Reason	All QC values are within the QC range.
QC Comments	QC sample was analyzed and all values are within the QC range.
QC Date	10/15/2019
QC Time	14:30

QC Sample Performance Summary: All QC values are within the QC range.

QC Status: Pass

**QC Sample Performance Summary**

QC Status	Pass
QC Reason	All QC values are within the QC range.
QC Comments	QC sample was analyzed and all values are within the QC range.
QC Date	10/15/2019
QC Time	14:30

**QC Sample Assessment**

QC Status	Pass
QC Reason	All QC values are within the QC range.
QC Comments	QC sample was analyzed and all values are within the QC range.
QC Date	10/15/2019
QC Time	14:30

QC Status: Pass

## Quality Control Sample Performance Assessment

APPROVED

APPROVED

DATE: 11/15/10  
BY: [Signature]  
TITLE: [Signature]

Sample Location	Sample Type	Sample Size	Sample Date	Sample Time	Sample Location
1. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
2. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
3. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
4. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
5. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
6. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
7. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
8. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
9. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
10. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]

Sample Location	Sample Type	Sample Size	Sample Date	Sample Time	Sample Location
11. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
12. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
13. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
14. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
15. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
16. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
17. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
18. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
19. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
20. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]

Sample Location	Sample Type	Sample Size	Sample Date	Sample Time	Sample Location
21. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
22. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
23. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
24. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
25. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
26. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
27. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
28. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
29. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
30. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]

Sample Location	Sample Type	Sample Size	Sample Date	Sample Time	Sample Location
31. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
32. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
33. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
34. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
35. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
36. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
37. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
38. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
39. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]
40. [Location]	[Type]	[Size]	[Date]	[Time]	[Location]

DATE: 11/15/10  
BY: [Signature]

DATE: 11/15/10  
BY: [Signature]

### Quality Control Sample Performance Assessment

Project Name: **Water Meter Accuracy Assessment of Meter**

Parameter	Test Method	Result	Status
Flow Rate Accuracy	Flow Test	98%	Pass
Pressure Accuracy	Pressure Test	95%	Pass
Temperature Accuracy	Temperature Test	99%	Pass
Leak Detection	Leak Test	0%	Pass
Flow Direction	Flow Test	Correct	Pass
Flow Rate Accuracy	Flow Test	97%	Pass
Pressure Accuracy	Pressure Test	96%	Pass
Temperature Accuracy	Temperature Test	98%	Pass
Leak Detection	Leak Test	0%	Pass
Flow Direction	Flow Test	Correct	Pass
Flow Rate Accuracy	Flow Test	99%	Pass
Pressure Accuracy	Pressure Test	97%	Pass
Temperature Accuracy	Temperature Test	99%	Pass
Leak Detection	Leak Test	0%	Pass
Flow Direction	Flow Test	Correct	Pass

Parameter	Test Method	Result	Status
Flow Rate Accuracy	Flow Test	98%	Pass
Pressure Accuracy	Pressure Test	95%	Pass
Temperature Accuracy	Temperature Test	99%	Pass
Leak Detection	Leak Test	0%	Pass
Flow Direction	Flow Test	Correct	Pass
Flow Rate Accuracy	Flow Test	97%	Pass
Pressure Accuracy	Pressure Test	96%	Pass
Temperature Accuracy	Temperature Test	98%	Pass
Leak Detection	Leak Test	0%	Pass
Flow Direction	Flow Test	Correct	Pass
Flow Rate Accuracy	Flow Test	99%	Pass
Pressure Accuracy	Pressure Test	97%	Pass
Temperature Accuracy	Temperature Test	99%	Pass
Leak Detection	Leak Test	0%	Pass
Flow Direction	Flow Test	Correct	Pass

Parameter	Test Method	Result	Status
Flow Rate Accuracy	Flow Test	98%	Pass
Pressure Accuracy	Pressure Test	95%	Pass
Temperature Accuracy	Temperature Test	99%	Pass
Leak Detection	Leak Test	0%	Pass
Flow Direction	Flow Test	Correct	Pass
Flow Rate Accuracy	Flow Test	97%	Pass
Pressure Accuracy	Pressure Test	96%	Pass
Temperature Accuracy	Temperature Test	98%	Pass
Leak Detection	Leak Test	0%	Pass
Flow Direction	Flow Test	Correct	Pass
Flow Rate Accuracy	Flow Test	99%	Pass
Pressure Accuracy	Pressure Test	97%	Pass
Temperature Accuracy	Temperature Test	99%	Pass
Leak Detection	Leak Test	0%	Pass
Flow Direction	Flow Test	Correct	Pass

Parameter	Test Method	Result	Status
Flow Rate Accuracy	Flow Test	98%	Pass
Pressure Accuracy	Pressure Test	95%	Pass
Temperature Accuracy	Temperature Test	99%	Pass
Leak Detection	Leak Test	0%	Pass
Flow Direction	Flow Test	Correct	Pass
Flow Rate Accuracy	Flow Test	97%	Pass
Pressure Accuracy	Pressure Test	96%	Pass
Temperature Accuracy	Temperature Test	98%	Pass
Leak Detection	Leak Test	0%	Pass
Flow Direction	Flow Test	Correct	Pass
Flow Rate Accuracy	Flow Test	99%	Pass
Pressure Accuracy	Pressure Test	97%	Pass
Temperature Accuracy	Temperature Test	99%	Pass
Leak Detection	Leak Test	0%	Pass
Flow Direction	Flow Test	Correct	Pass

10/10/2010 10:10:10 AM

10/10/2010 10:10:10 AM



October 06, 2021

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

RE: Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
Pace Project No.: 92560768

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 10, 2021 and September 17, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

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

Enclosures

cc: Stephen Benda  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power  
Kristen Jurinko  
J. Shelby Mobley  
Charles Norton, Southern Company  
Ms. Lauren Petty, Southern Company  
Dawn Prell, Golder Associates Inc.  
Tim Richards, Golder Associates - Atlanta



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

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### **Pace Analytical Services Charlotte**

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

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### **Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

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### **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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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92560768002	B-102D	Water	09/10/21 14:27	09/10/21 17:40
92560768003	B-109D	Water	09/10/21 13:05	09/10/21 17:40
92560768004	EB-3	Water	09/10/21 15:00	09/10/21 17:40
92560768005	B-56	Water	09/13/21 13:11	09/14/21 09:35
92560768006	B-88	Water	09/13/21 14:35	09/14/21 09:35
92560768007	B-101D	Water	09/13/21 15:52	09/14/21 09:35
92560768008	B-106D	Water	09/13/21 12:10	09/14/21 09:35
92560768009	B-107D	Water	09/13/21 17:35	09/14/21 09:35
92560768010	FB-3	Water	09/13/21 16:30	09/14/21 09:35
92560768011	DUP-3	Water	09/13/21 00:00	09/14/21 09:35
92560768012	B-63	Water	09/14/21 12:45	09/15/21 09:34
92560768013	B-66	Water	09/14/21 11:02	09/15/21 09:34
92560768014	B-77	Water	09/14/21 10:45	09/15/21 09:34
92560768015	B-82	Water	09/14/21 12:55	09/15/21 09:34
92560768016	B-104D	Water	09/14/21 16:45	09/15/21 09:34
92560768017	B-108D	Water	09/14/21 11:25	09/15/21 09:34
92560768018	B-111D	Water	09/14/21 15:37	09/15/21 09:34
92560768019	B-115D	Water	09/14/21 15:00	09/15/21 09:34
92560768020	B-120D	Water	09/14/21 14:50	09/15/21 09:34
92560768021	DUP-4	Water	09/14/21 00:00	09/15/21 09:34
92560768022	EB-4	Water	09/14/21 16:35	09/15/21 09:34
92560768023	B-92	Water	09/15/21 11:38	09/16/21 09:06
92560768024	B-93	Water	09/15/21 11:31	09/16/21 09:06
92560768025	B-97	Water	09/15/21 12:50	09/16/21 09:06
92560768026	B-98	Water	09/15/21 13:10	09/16/21 09:06
92560768027	DUP-5	Water	09/15/21 00:00	09/16/21 09:06
92560768028	FB-5	Water	09/15/21 13:25	09/16/21 09:06
92560768029	EB-5	Water	09/15/21 13:35	09/16/21 09:06
92560768030	B-83	Water	09/16/21 11:37	09/17/21 17:06
92560768031	FB-6	Water	09/16/21 11:55	09/17/21 17:06

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92560768002	B-102D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560768003	B-109D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560768004	EB-3	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560768005	B-56	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560768006	B-88	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560768007	B-101D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560768008	B-106D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560768009	B-107D	EPA 6010D	KH	1
		EPA 6020B	CW1	13

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92560768010	FB-3	EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560768011	DUP-3	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
92560768012	B-63	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92560768013	B-66	SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560768014	B-77	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
92560768015	B-82	EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560768016	B-104D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 6010D	KH	1
		EPA 6020B	CW1	13

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92560768017	B-108D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560768018	B-111D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560768019	B-115D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560768020	B-120D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560768021	DUP-4	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560768022	EB-4	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560768023	B-92	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560768024	B-93	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92560768025	B-97	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
92560768026	B-98	EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92560768027	DUP-5	SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92560768028	FB-5	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560768029	EB-5	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
92560768030	B-83	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
92560768031	FB-6	EPA 7470A	VB	1

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

Sample: B-102D		Lab ID: 92560768002		Collected: 09/10/21 14:27	Received: 09/10/21 17:40	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		09/13/21 08:41		
pH	<b>5.36</b>	Std. Units			1		09/13/21 08:41		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>84.7</b>	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 18:03	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 16:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 16:46	7440-38-2	
Barium	<b>0.020</b>	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/23/21 16:46	7440-39-3	
Beryllium	<b>0.0011</b>	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 16:46	7440-41-7	
Boron	<b>2.5</b>	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 16:46	7440-42-8	
Cadmium	<b>0.00083</b>	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 16:46	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 16:46	7440-47-3	
Cobalt	<b>0.013</b>	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 16:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 16:46	7439-92-1	
Lithium	<b>0.012J</b>	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 16:46	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 16:46	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 16:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 16:46	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:09	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>474</b>	mg/L	10.0	10.0	1		09/16/21 14:39		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>10.2</b>	mg/L	1.0	0.60	1		09/15/21 06:54	16887-00-6	
Fluoride	<b>0.083J</b>	mg/L	0.10	0.050	1		09/15/21 06:54	16984-48-8	
Sulfate	<b>271</b>	mg/L	6.0	3.0	6		09/15/21 18:14	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

**Sample: B-109D**      **Lab ID: 92560768003**      Collected: 09/10/21 13:05      Received: 09/10/21 17:40      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		09/13/21 08:41		
pH	<b>6.86</b>	Std. Units			1		09/13/21 08:41		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>42.1</b>	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 18:08	7440-70-2	M1
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B      Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	<b>0.0040</b>	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 17:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 17:08	7440-38-2	
Barium	<b>0.022</b>	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/23/21 17:08	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 17:08	7440-41-7	
Boron	<b>0.41</b>	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 17:08	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 17:08	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 17:08	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 17:08	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 17:08	7439-92-1	
Lithium	<b>0.013J</b>	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 17:08	7439-93-2	
Molybdenum	<b>0.0011J</b>	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 17:08	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 17:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 17:08	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A      Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:20	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>284</b>	mg/L	10.0	10.0	1		09/16/21 14:40		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>4.8</b>	mg/L	1.0	0.60	1		09/15/21 08:11	16887-00-6	M1
Fluoride	<b>0.15</b>	mg/L	0.10	0.050	1		09/15/21 08:11	16984-48-8	M1
Sulfate	<b>93.2</b>	mg/L	1.0	0.50	1		09/15/21 08:11	14808-79-8	M1

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>Sample: EB-3      Lab ID: 92560768004      Collected: 09/10/21 15:00      Received: 09/10/21 17:40      Matrix: Water</b>									
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>0.17J</b>	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 18:39	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 17:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 17:14	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/23/21 17:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 17:14	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 17:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 17:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 17:14	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 17:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 17:14	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 17:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 17:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 17:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 17:14	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:23	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/16/21 14:40		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		09/15/21 08:57	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 08:57	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/15/21 08:57	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

Sample: B-56		Lab ID: 92560768005		Collected: 09/13/21 13:11		Received: 09/14/21 09:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/14/21 11:05		
pH	4.69	Std. Units			1		09/14/21 11:05		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	15.2	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 19:03	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 17:20	7440-36-0	
Arsenic	0.0031J	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 17:20	7440-38-2	
Barium	0.026	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/23/21 17:20	7440-39-3	
Beryllium	0.0012	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 17:20	7440-41-7	
Boron	1.5	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 17:20	7440-42-8	
Cadmium	0.00028J	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 17:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 17:20	7440-47-3	
Cobalt	0.047	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 17:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 17:20	7439-92-1	
Lithium	0.0055J	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 17:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 17:20	7439-98-7	
Selenium	0.011	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 17:20	7782-49-2	
Thallium	0.00024J	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 17:20	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:25	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	321	mg/L	10.0	10.0	1		09/23/21 13:17		1g,H1
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.1	mg/L	1.0	0.60	1		09/15/21 17:56	16887-00-6	
Fluoride	0.20	mg/L	0.10	0.050	1		09/15/21 17:56	16984-48-8	
Sulfate	189	mg/L	4.0	2.0	4		09/15/21 23:45	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

Sample: B-88		Lab ID: 92560768006		Collected: 09/13/21 14:35		Received: 09/14/21 09:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/14/21 11:05		
pH	5.68	Std. Units			1		09/14/21 11:05		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	80.5	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 19:08	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 17:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 17:26	7440-38-2	
Barium	0.016	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/23/21 17:26	7440-39-3	
Beryllium	0.0010	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 17:26	7440-41-7	
Boron	2.0	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 17:26	7440-42-8	
Cadmium	0.0013	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 17:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 17:26	7440-47-3	
Cobalt	0.0018J	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 17:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 17:26	7439-92-1	
Lithium	0.0017J	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 17:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 17:26	7439-98-7	
Selenium	0.0021J	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 17:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 17:26	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:28	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	572	mg/L	20.0	20.0	1		09/20/21 16:35		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	8.2	mg/L	1.0	0.60	1		09/15/21 18:12	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 18:12	16984-48-8	
Sulfate	321	mg/L	7.0	3.5	7		09/16/21 00:00	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

**Sample: B-101D**      **Lab ID: 92560768007**      Collected: 09/13/21 15:52      Received: 09/14/21 09:35      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/14/21 11:05		
pH	<b>6.07</b>	Std. Units			1		09/14/21 11:05		

**6010D ATL ICP**

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

Calcium	<b>53.6</b>	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 19:13	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	<b>0.0010J</b>	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 18:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:00	7440-38-2	
Barium	<b>0.076</b>	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 09:09	7440-39-3	
Beryllium	<b>0.000067J</b>	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 18:00	7440-41-7	
Boron	<b>1.6</b>	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 18:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 18:00	7440-43-9	
Chromium	<b>0.0014J</b>	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:00	7440-47-3	
Cobalt	<b>0.0030J</b>	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 18:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 18:00	7439-92-1	
Lithium	<b>0.011J</b>	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 18:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 18:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 18:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 18:00	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:36	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>343</b>	mg/L	10.0	10.0	1		09/20/21 16:35		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>8.7</b>	mg/L	1.0	0.60	1		09/15/21 18:27	16887-00-6	
Fluoride	<b>0.051J</b>	mg/L	0.10	0.050	1		09/15/21 18:27	16984-48-8	
Sulfate	<b>174</b>	mg/L	4.0	2.0	4		09/16/21 00:16	14808-79-8	M1

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

**Sample: B-106D**      **Lab ID: 92560768008**      Collected: 09/13/21 12:10      Received: 09/14/21 09:35      Matrix: Water

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

Analytical Method:  
 Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/14/21 11:06		
pH	<b>5.91</b>	Std. Units			1		09/14/21 11:06		

**6010D ATL ICP**

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

Calcium	<b>42.1</b>	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 19:18	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 18:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:06	7440-38-2	
Barium	<b>0.020</b>	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 09:15	7440-39-3	
Beryllium	<b>0.00013J</b>	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 18:06	7440-41-7	
Boron	<b>1.3</b>	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 18:06	7440-42-8	
Cadmium	<b>0.00024J</b>	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 18:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:06	7440-47-3	
Cobalt	<b>0.00056J</b>	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 18:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 18:06	7439-92-1	
Lithium	<b>0.0056J</b>	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 18:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 18:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 18:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 18:06	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	0.000078	1	09/28/21 11:00	09/28/21 17:38	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
 Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>296</b>	mg/L	10.0	10.0	1		09/20/21 16:35		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
 Pace Analytical Services - Asheville

Chloride	<b>7.0</b>	mg/L	1.0	0.60	1		09/15/21 19:47	16887-00-6	
Fluoride	<b>0.052J</b>	mg/L	0.10	0.050	1		09/15/21 19:47	16984-48-8	
Sulfate	<b>147</b>	mg/L	3.0	1.5	3		09/16/21 01:03	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

Sample: B-107D		Lab ID: 92560768009		Collected: 09/13/21 17:35	Received: 09/14/21 09:35	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		09/14/21 11:06		
pH	<b>5.88</b>	Std. Units			1		09/14/21 11:06		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>83.6</b>	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 19:32	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 18:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:11	7440-38-2	
Barium	<b>0.087</b>	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 09:21	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 18:11	7440-41-7	
Boron	<b>10.7</b>	mg/L	0.40	0.086	10	09/23/21 08:32	09/24/21 15:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 18:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:11	7440-47-3	
Cobalt	<b>0.00083J</b>	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 18:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 18:11	7439-92-1	
Lithium	<b>0.014J</b>	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 18:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 18:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 18:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 18:11	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:41	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>567</b>	mg/L	10.0	10.0	1		09/20/21 16:35		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>11.7</b>	mg/L	1.0	0.60	1		09/15/21 20:03	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 20:03	16984-48-8	
Sulfate	<b>275</b>	mg/L	6.0	3.0	6		09/16/21 01:19	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Sample: <b>FB-3</b>	Lab ID: <b>92560768010</b>	Collected: 09/13/21 16:30	Received: 09/14/21 09:35	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 17:30	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 18:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:17	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 09:27	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 18:17	7440-41-7	
Boron	<b>0.016J</b>	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 18:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 18:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 18:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 18:17	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 18:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 18:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 18:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 18:17	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:44	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/20/21 16:35		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		09/15/21 20:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 20:19	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/15/21 20:19	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Sample: DUP-3		Lab ID: 92560768011		Collected: 09/13/21 00:00	Received: 09/14/21 09:35	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6010D ATL ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	<b>39.8</b>	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 17:54	7440-70-2		
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 18:23	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:23	7440-38-2		
Barium	<b>0.021</b>	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 09:33	7440-39-3		
Beryllium	<b>0.00014J</b>	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 18:23	7440-41-7		
Boron	<b>1.4</b>	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 18:23	7440-42-8		
Cadmium	<b>0.00021J</b>	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 18:23	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:23	7440-47-3		
Cobalt	<b>0.00056J</b>	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 18:23	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 18:23	7439-92-1		
Lithium	<b>0.0057J</b>	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 18:23	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 18:23	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 18:23	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 18:23	7440-28-0		
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:46	7439-97-6		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	<b>297</b>	mg/L	10.0	10.0	1		09/20/21 16:36			
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	<b>6.9</b>	mg/L	1.0	0.60	1		09/15/21 20:35	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 20:35	16984-48-8		
Sulfate	<b>149</b>	mg/L	3.0	1.5	3		09/16/21 02:06	14808-79-8		

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

Sample: B-63		Lab ID: 92560768012		Collected: 09/14/21 12:45	Received: 09/15/21 09:34	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		09/15/21 11:06		
pH	<b>5.46</b>	Std. Units			1		09/15/21 11:06		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>22.7</b>	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 17:59	7440-70-2	M1
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 18:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:29	7440-38-2	
Barium	<b>0.026</b>	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 09:38	7440-39-3	
Beryllium	<b>0.00042J</b>	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 18:29	7440-41-7	
Boron	<b>0.35</b>	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 18:29	7440-42-8	
Cadmium	<b>0.00025J</b>	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 18:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:29	7440-47-3	
Cobalt	<b>0.037</b>	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 18:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 18:29	7439-92-1	
Lithium	<b>0.0064J</b>	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 18:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 18:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 18:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 18:29	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:49	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>170</b>	mg/L	10.0	10.0	1		09/20/21 16:36		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>7.1</b>	mg/L	1.0	0.60	1		09/17/21 01:51	16887-00-6	M1
Fluoride	<b>0.16</b>	mg/L	0.10	0.050	1		09/17/21 01:51	16984-48-8	M1
Sulfate	<b>73.2</b>	mg/L	1.0	0.50	1		09/17/21 01:51	14808-79-8	M1

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

**Sample: B-66**      **Lab ID: 92560768013**      Collected: 09/14/21 11:02      Received: 09/15/21 09:34      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/15/21 11:06		
pH	<b>5.54</b>	Std. Units			1		09/15/21 11:06		

**6010D ATL ICP**

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

Calcium	<b>60.9</b>	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 18:18	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 18:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:34	7440-38-2	
Barium	<b>0.018</b>	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 09:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 18:34	7440-41-7	
Boron	<b>2.1</b>	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 18:34	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 18:34	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:34	7440-47-3	
Cobalt	<b>0.012</b>	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 18:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 18:34	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 18:34	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 18:34	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 18:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 18:34	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:51	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>490</b>	mg/L	20.0	20.0	1		09/21/21 12:32		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>8.9</b>	mg/L	1.0	0.60	1		09/17/21 02:38	16887-00-6	
Fluoride	<b>0.22</b>	mg/L	0.10	0.050	1		09/17/21 02:38	16984-48-8	
Sulfate	<b>268</b>	mg/L	6.0	3.0	6		09/17/21 21:14	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

**Sample: B-77**      **Lab ID: 92560768014**      Collected: 09/14/21 10:45      Received: 09/15/21 09:34      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/15/21 11:07		
pH	<b>6.42</b>	Std. Units			1		09/15/21 11:07		

**6010D ATL ICP**

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

Calcium	<b>17.0</b>	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 18:23	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 18:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:40	7440-38-2	
Barium	<b>0.12</b>	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 09:50	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 18:40	7440-41-7	
Boron	<b>0.29</b>	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 18:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 18:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:40	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 18:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 18:40	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 18:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 18:40	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 18:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 18:40	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:54	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>94.0</b>	mg/L	10.0	10.0	1		09/21/21 12:32		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>4.7</b>	mg/L	1.0	0.60	1		09/17/21 02:53	16887-00-6	
Fluoride	<b>0.078J</b>	mg/L	0.10	0.050	1		09/17/21 02:53	16984-48-8	
Sulfate	<b>2.5</b>	mg/L	1.0	0.50	1		09/17/21 02:53	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

**Sample: B-82**      **Lab ID: 92560768015**      Collected: 09/14/21 12:55      Received: 09/15/21 09:34      Matrix: Water

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

Analytical Method:  
 Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/15/21 11:07		
pH	<b>5.15</b>	Std. Units			1		09/15/21 11:07		

**6010D ATL ICP**

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

Calcium	<b>33.4</b>	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 18:27	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 18:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:46	7440-38-2	
Barium	<b>0.022</b>	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 09:56	7440-39-3	
Beryllium	<b>0.0017</b>	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 18:46	7440-41-7	
Boron	<b>0.78</b>	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 18:46	7440-42-8	
Cadmium	<b>0.00070</b>	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 18:46	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:46	7440-47-3	
Cobalt	<b>0.0015J</b>	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 18:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 18:46	7439-92-1	
Lithium	<b>0.0010J</b>	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 18:46	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 18:46	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 18:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 18:46	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 17:57	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
 Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>536</b>	mg/L	20.0	20.0	1		09/21/21 12:33		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
 Pace Analytical Services - Asheville

Chloride	<b>9.5</b>	mg/L	1.0	0.60	1		09/17/21 03:09	16887-00-6	
Fluoride	<b>0.052J</b>	mg/L	0.10	0.050	1		09/17/21 03:09	16984-48-8	
Sulfate	<b>326</b>	mg/L	7.0	3.5	7		09/17/21 21:30	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

Sample: B-104D		Lab ID: 92560768016		Collected: 09/14/21 16:45	Received: 09/15/21 09:34	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		09/15/21 11:07		
pH	<b>8.58</b>	Std. Units			1		09/15/21 11:07		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>151</b>	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 18:32	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 18:52	7440-36-0	
Arsenic	<b>0.0019J</b>	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:52	7440-38-2	
Barium	<b>0.021</b>	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 10:02	7440-39-3	
Beryllium	<b>0.0011</b>	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 18:52	7440-41-7	
Boron	<b>0.23</b>	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 18:52	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 18:52	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 18:52	7440-47-3	
Cobalt	<b>0.10</b>	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 18:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 18:52	7439-92-1	
Lithium	<b>0.036</b>	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 18:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 18:52	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 18:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 18:52	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:05	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>776</b>	mg/L	20.0	20.0	1		09/21/21 12:33		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>7.9</b>	mg/L	1.0	0.60	1		09/17/21 04:11	16887-00-6	
Fluoride	<b>0.50</b>	mg/L	0.10	0.050	1		09/17/21 04:11	16984-48-8	
Sulfate	<b>456</b>	mg/L	10.0	5.0	10		09/17/21 21:46	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

**Sample: B-108D**      **Lab ID: 92560768017**      Collected: 09/14/21 11:25      Received: 09/15/21 09:34      Matrix: Water

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

Analytical Method:  
 Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/15/21 11:07		
pH	<b>5.81</b>	Std. Units			1		09/15/21 11:07		

**6010D ATL ICP**

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

Calcium	<b>83.3</b>	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 18:47	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 19:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 19:09	7440-38-2	
Barium	<b>0.060</b>	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 10:27	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 19:09	7440-41-7	
Boron	<b>6.8</b>	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 19:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 19:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 19:09	7440-47-3	
Cobalt	<b>0.0017J</b>	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 19:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 19:09	7439-92-1	
Lithium	<b>0.015J</b>	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 19:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 19:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 19:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 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	0.000078	1	09/28/21 11:00	09/28/21 18:07	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
 Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>576</b>	mg/L	20.0	20.0	1		09/21/21 12:33		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
 Pace Analytical Services - Asheville

Chloride	<b>28.8</b>	mg/L	1.0	0.60	1		09/17/21 04:26	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/17/21 04:26	16984-48-8	
Sulfate	<b>299</b>	mg/L	7.0	3.5	7		09/17/21 22:02	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

Sample: B-111D		Lab ID: 92560768018		Collected: 09/14/21 15:37		Received: 09/15/21 09:34		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/15/21 11:07		
pH	7.29	Std. Units			1		09/15/21 11:07		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	98.4	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 18:52	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/23/21 08:32	09/23/21 19:14	7440-36-0	
Arsenic	0.0029J	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 19:14	7440-38-2	
Barium	0.043	mg/L	0.0050	0.00067	1	09/23/21 08:32	09/24/21 10:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/23/21 08:32	09/23/21 19:14	7440-41-7	
Boron	0.32	mg/L	0.040	0.0086	1	09/23/21 08:32	09/23/21 19:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/23/21 08:32	09/23/21 19:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/23/21 08:32	09/23/21 19:14	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/23/21 08:32	09/23/21 19:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/23/21 08:32	09/23/21 19:14	7439-92-1	
Lithium	0.029J	mg/L	0.030	0.00073	1	09/23/21 08:32	09/23/21 19:14	7439-93-2	
Molybdenum	0.013	mg/L	0.010	0.00074	1	09/23/21 08:32	09/23/21 19:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/23/21 08:32	09/23/21 19:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/23/21 08:32	09/23/21 19:14	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:10	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	586	mg/L	20.0	20.0	1		09/21/21 12:33		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	27.3	mg/L	1.0	0.60	1		09/17/21 04:42	16887-00-6	
Fluoride	0.57	mg/L	0.10	0.050	1		09/17/21 04:42	16984-48-8	
Sulfate	243	mg/L	5.0	2.5	5		09/17/21 22:18	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

Sample: B-115D		Lab ID: 92560768019		Collected: 09/14/21 15:00		Received: 09/15/21 09:34		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		09/15/21 11:08		
pH	<b>5.38</b>	Std. Units			1		09/15/21 11:08		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>63.0</b>	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 18:57	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 15:54	7440-36-0	
Arsenic	<b>0.0018J</b>	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 15:54	7440-38-2	
Barium	<b>0.016</b>	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 15:54	7440-39-3	
Beryllium	<b>0.011</b>	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 15:54	7440-41-7	
Boron	<b>0.61</b>	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 15:54	7440-42-8	
Cadmium	<b>0.00035J</b>	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 15:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 15:54	7440-47-3	
Cobalt	<b>0.28</b>	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 15:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 15:54	7439-92-1	
Lithium	<b>0.085</b>	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 15:54	7439-93-2	M1
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 15:54	7439-98-7	
Selenium	<b>0.0041J</b>	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 15:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 15:54	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:12	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>499</b>	mg/L	10.0	10.0	1		09/21/21 12:33		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>9.0</b>	mg/L	1.0	0.60	1		09/17/21 04:57	16887-00-6	
Fluoride	<b>1.0</b>	mg/L	0.10	0.050	1		09/17/21 04:57	16984-48-8	
Sulfate	<b>278</b>	mg/L	6.0	3.0	6		09/17/21 22:35	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

**Sample: B-120D**      **Lab ID: 92560768020**      Collected: 09/14/21 14:50      Received: 09/15/21 09:34      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/15/21 11:08		
pH	<b>5.30</b>	Std. Units			1		09/15/21 11:08		

**6010D ATL ICP**

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

Calcium	<b>162</b>	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 19:02	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 16:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 16:17	7440-38-2	
Barium	<b>0.031</b>	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 16:17	7440-39-3	
Beryllium	<b>0.00087</b>	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 16:17	7440-41-7	
Boron	<b>1.7</b>	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 16:17	7440-42-8	
Cadmium	<b>0.0011</b>	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 16:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 16:17	7440-47-3	
Cobalt	<b>0.0055</b>	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 16:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 16:17	7439-92-1	
Lithium	<b>0.077</b>	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 16:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 16:17	7439-98-7	
Selenium	<b>0.0022J</b>	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 16:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 16:17	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:15	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>882</b>	mg/L	20.0	20.0	1		09/21/21 12:33		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>6.1</b>	mg/L	1.0	0.60	1		09/17/21 05:13	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/17/21 05:13	16984-48-8	
Sulfate	<b>552</b>	mg/L	12.0	6.0	12		09/17/21 22:51	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Sample: DUP-4	Lab ID: 92560768021	Collected: 09/14/21 00:00	Received: 09/15/21 09:34	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	59.5	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 19:06	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 16:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 16:23	7440-38-2	
Barium	0.019	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 16:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 16:23	7440-41-7	
Boron	2.0	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 16:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 16:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 16:23	7440-47-3	
Cobalt	0.013	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 16:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 16:23	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 16:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 16:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 16:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 16:23	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:18	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	510	mg/L	20.0	20.0	1		09/21/21 12:34		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	8.8	mg/L	1.0	0.60	1		09/17/21 05:28	16887-00-6	
Fluoride	0.19	mg/L	0.10	0.050	1		09/17/21 05:28	16984-48-8	
Sulfate	260	mg/L	6.0	3.0	6		09/17/21 23:07	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

**Sample: EB-4**      **Lab ID: 92560768022**      Collected: 09/14/21 16:35      Received: 09/15/21 09:34      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 19:11	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 16:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 16:28	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 16:28	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 16:28	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 16:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 16:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 16:28	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 16:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 16:28	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 16:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 16:28	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 16:28	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 16:28	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:26	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/21/21 12:34		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		09/17/21 06:14	16887-00-6	M1
Fluoride	ND	mg/L	0.10	0.050	1		09/17/21 06:14	16984-48-8	M1
Sulfate	ND	mg/L	1.0	0.50	1		09/17/21 06:14	14808-79-8	M1

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

Sample: B-92		Lab ID: 92560768023		Collected: 09/15/21 11:38		Received: 09/16/21 09:06		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		09/16/21 12:02		
pH	<b>4.55</b>	Std. Units			1		09/16/21 12:02		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>110</b>	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 19:16	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 18:10	7440-36-0	
Arsenic	<b>0.0012J</b>	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:10	7440-38-2	
Barium	<b>0.015</b>	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 18:10	7440-39-3	
Beryllium	<b>0.014</b>	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 18:10	7440-41-7	
Boron	<b>2.3</b>	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 18:10	7440-42-8	
Cadmium	<b>0.00096</b>	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 18:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:10	7440-47-3	
Cobalt	<b>0.063</b>	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 18:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 18:10	7439-92-1	
Lithium	<b>0.012J</b>	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 18:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 18:10	7439-98-7	
Selenium	<b>0.0067</b>	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 18:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 18:10	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.00017J</b>	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:43	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>612</b>	mg/L	20.0	20.0	1		09/21/21 19:08		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>10.4</b>	mg/L	1.0	0.60	1		09/18/21 03:21	16887-00-6	
Fluoride	<b>0.18</b>	mg/L	0.10	0.050	1		09/18/21 03:21	16984-48-8	
Sulfate	<b>384</b>	mg/L	9.0	4.5	9		09/18/21 13:21	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

Sample: B-93		Lab ID: 92560768024		Collected: 09/15/21 11:31		Received: 09/16/21 09:06		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		09/16/21 12:02		
pH	<b>4.60</b>	Std. Units			1		09/16/21 12:02		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>129</b>	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 19:21	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 18:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:16	7440-38-2	
Barium	<b>0.016</b>	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 18:16	7440-39-3	
Beryllium	<b>0.015</b>	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 18:16	7440-41-7	
Boron	<b>3.1</b>	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 18:16	7440-42-8	
Cadmium	<b>0.00088</b>	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 18:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:16	7440-47-3	
Cobalt	<b>0.062</b>	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 18:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 18:16	7439-92-1	
Lithium	<b>0.011J</b>	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 18:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 18:16	7439-98-7	
Selenium	<b>0.0076</b>	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 18:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 18:16	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.000098J</b>	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:46	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>812</b>	mg/L	20.0	20.0	1		09/21/21 19:09		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>13.2</b>	mg/L	1.0	0.60	1		09/18/21 03:37	16887-00-6	
Fluoride	<b>0.34</b>	mg/L	0.10	0.050	1		09/18/21 03:37	16984-48-8	
Sulfate	<b>478</b>	mg/L	11.0	5.5	11		09/18/21 13:37	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

Sample: B-97		Lab ID: 92560768025		Collected: 09/15/21 12:50		Received: 09/16/21 09:06		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		09/16/21 12:02		
pH	5.49	Std. Units			1		09/16/21 12:02		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	178	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 19:26	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 18:22	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:22	7440-38-2	
Barium	0.020	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 18:22	7440-39-3	
Beryllium	0.0016	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 18:22	7440-41-7	
Boron	3.3	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 18:22	7440-42-8	
Cadmium	0.00056	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 18:22	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:22	7440-47-3	
Cobalt	0.0030J	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 18:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 18:22	7439-92-1	
Lithium	0.0042J	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 18:22	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 18:22	7439-98-7	
Selenium	0.0024J	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 18:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 18:22	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:48	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	892	mg/L	20.0	20.0	1		09/21/21 19:09		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	18.8	mg/L	1.0	0.60	1		09/18/21 03:53	16887-00-6	
Fluoride	0.085J	mg/L	0.10	0.050	1		09/18/21 03:53	16984-48-8	
Sulfate	551	mg/L	12.0	6.0	12		09/18/21 13:53	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

**Sample: B-98**      **Lab ID: 92560768026**      Collected: 09/15/21 13:10      Received: 09/16/21 09:06      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/16/21 12:02		
pH	<b>5.40</b>	Std. Units			1		09/16/21 12:02		

**6010D ATL ICP**

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

Calcium	<b>105</b>	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 19:31	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 18:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:27	7440-38-2	
Barium	<b>0.082</b>	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 18:27	7440-39-3	
Beryllium	<b>0.00087</b>	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 18:27	7440-41-7	
Boron	<b>2.6</b>	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 18:27	7440-42-8	
Cadmium	<b>0.00030J</b>	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 18:27	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:27	7440-47-3	
Cobalt	<b>0.0048J</b>	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 18:27	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 18:27	7439-92-1	
Lithium	<b>0.0012J</b>	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 18:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 18:27	7439-98-7	
Selenium	<b>0.0033J</b>	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 18:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 18:27	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:51	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>524</b>	mg/L	20.0	20.0	1		09/21/21 19:09		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>29.9</b>	mg/L	1.0	0.60	1		09/18/21 04:09	16887-00-6	M1
Fluoride	<b>0.098J</b>	mg/L	0.10	0.050	1		09/18/21 04:09	16984-48-8	
Sulfate	<b>325</b>	mg/L	7.0	3.5	7		09/18/21 14:40	14808-79-8	M1

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

Sample: DUP-5		Lab ID: 92560768027		Collected: 09/15/21 00:00	Received: 09/16/21 09:06	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	<b>137</b>	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 19:45	7440-70-2	
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 18:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:33	7440-38-2	
Barium	<b>0.015</b>	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 18:33	7440-39-3	
Beryllium	<b>0.015</b>	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 18:33	7440-41-7	
Boron	<b>3.1</b>	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 18:33	7440-42-8	
Cadmium	<b>0.00086</b>	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 18:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:33	7440-47-3	
Cobalt	<b>0.058</b>	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 18:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 18:33	7439-92-1	
Lithium	<b>0.011J</b>	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 18:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 18:33	7439-98-7	
Selenium	<b>0.0066</b>	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 18:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 18:33	7440-28-0	
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	<b>0.00011J</b>	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:54	7439-97-6	
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	<b>742</b>	mg/L	20.0	20.0	1		09/21/21 19:09		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>13.6</b>	mg/L	1.0	0.60	1		09/18/21 05:28	16887-00-6	
Fluoride	<b>0.32</b>	mg/L	0.10	0.050	1		09/18/21 05:28	16984-48-8	
Sulfate	<b>469</b>	mg/L	11.0	5.5	11		09/18/21 15:27	14808-79-8	

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**ANALYTICAL RESULTS**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Sample: FB-5		Lab ID: 92560768028		Collected: 09/15/21 13:25		Received: 09/16/21 09:06		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	ND	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 19:55	7440-70-2	
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 18:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:39	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 18:39	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 18:39	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 18:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 18:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 18:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 18:39	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 18:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 18:39	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 18:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 18:39	7440-28-0	
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:56	7439-97-6	
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/21/21 19:09		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	ND	mg/L	1.0	0.60	1		09/18/21 05:44	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/18/21 05:44	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/18/21 05:44	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

**Sample: EB-5**      **Lab ID: 92560768029**      Collected: 09/15/21 13:35      Received: 09/16/21 09:06      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.12	1	09/27/21 12:35	09/27/21 20:00	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 18:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:45	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 18:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 18:45	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 18:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 18:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 18:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 18:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 18:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 18:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 18:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 18:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 18:45	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 18:59	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/21/21 19:10		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		09/18/21 06:00	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/18/21 06:00	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/18/21 06:00	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

**Sample: B-83**      **Lab ID: 92560768030**      Collected: 09/16/21 11:37      Received: 09/17/21 17:06      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/20/21 14:49		
pH	<b>5.58</b>	Std. Units			1		09/20/21 14:49		

**6010D ATL ICP**

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

Calcium	<b>39.4</b>	mg/L	1.0	0.12	1	09/29/21 10:10	09/29/21 19:10	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 19:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 19:02	7440-38-2	
Barium	<b>0.030</b>	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 19:02	7440-39-3	
Beryllium	<b>0.00028J</b>	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 19:02	7440-41-7	
Boron	<b>0.30</b>	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 19:02	7440-42-8	
Cadmium	<b>0.00030J</b>	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 19:02	7440-43-9	
Chromium	<b>0.0030J</b>	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 19:02	7440-47-3	
Cobalt	<b>0.011</b>	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 19:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 19:02	7439-92-1	
Lithium	<b>0.0021J</b>	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 19:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 19:02	7439-98-7	
Selenium	<b>0.025</b>	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 19:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 19:02	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 19:07	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>223</b>	mg/L	10.0	10.0	1		09/23/21 20:02		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>2.6</b>	mg/L	1.0	0.60	1		09/21/21 18:03	16887-00-6	
Fluoride	<b>0.066J</b>	mg/L	0.10	0.050	1		09/21/21 18:03	16984-48-8	
Sulfate	<b>106</b>	mg/L	2.0	1.0	2		09/22/21 04:57	14808-79-8	

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**ANALYTICAL RESULTS**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

**Sample: FB-6**      **Lab ID: 92560768031**      Collected: 09/16/21 11:55      Received: 09/17/21 17:06      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.12	1	09/29/21 10:10	09/29/21 19:19	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/24/21 08:24	09/24/21 19:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 19:07	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/24/21 08:24	09/24/21 19:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/24/21 08:24	09/24/21 19:07	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/24/21 08:24	09/24/21 19:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/24/21 08:24	09/24/21 19:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/24/21 08:24	09/24/21 19:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/24/21 08:24	09/24/21 19:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/24/21 08:24	09/24/21 19:07	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/24/21 08:24	09/24/21 19:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/24/21 08:24	09/24/21 19:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/24/21 08:24	09/24/21 19:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/24/21 08:24	09/24/21 19:07	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/28/21 11:00	09/28/21 19:09	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/23/21 20:02		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		09/21/21 18:18	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/21/21 18:18	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/21/21 18:18	14808-79-8	

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### QUALITY CONTROL DATA

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

QC Batch: 648974 Analysis Method: EPA 6010D  
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92560768002, 92560768003, 92560768004, 92560768005, 92560768006, 92560768007, 92560768008, 92560768009

METHOD BLANK: 3403796 Matrix: Water  
 Associated Lab Samples: 92560768002, 92560768003, 92560768004, 92560768005, 92560768006, 92560768007, 92560768008, 92560768009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/23/21 17:54	

LABORATORY CONTROL SAMPLE: 3403797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3403798 3403799

Parameter	Units	92560768003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	42.1	1	1	41.6	40.7	-42	-139	75-125	2	20	M1

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch: 649478 Analysis Method: EPA 6010D  
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92560768010, 92560768011, 92560768012, 92560768013, 92560768014, 92560768015, 92560768016, 92560768017, 92560768018, 92560768019, 92560768020, 92560768021, 92560768022, 92560768023, 92560768024, 92560768025, 92560768026, 92560768027, 92560768028, 92560768029

METHOD BLANK: 3406360 Matrix: Water  
 Associated Lab Samples: 92560768010, 92560768011, 92560768012, 92560768013, 92560768014, 92560768015, 92560768016, 92560768017, 92560768018, 92560768019, 92560768020, 92560768021, 92560768022, 92560768023, 92560768024, 92560768025, 92560768026, 92560768027, 92560768028, 92560768029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/27/21 17:20	

LABORATORY CONTROL SAMPLE: 3406361

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406362 3406363

Parameter	Units	92560768012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	22.7	1	1	23.3	22.2	61	-46	75-125	5	20	M1

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

QC Batch: 649648 Analysis Method: EPA 6010D  
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92560768030, 92560768031

METHOD BLANK: 3407003 Matrix: Water  
 Associated Lab Samples: 92560768030, 92560768031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/29/21 16:41	

LABORATORY CONTROL SAMPLE: 3407004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	113	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3407005 3407006

Parameter	Units	3407005		3407006		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92561303001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	45.1	1	1	46.7	46.4	160	129	75-125	1	20 M1

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch: 648942 Analysis Method: EPA 6020B  
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92560768002, 92560768003, 92560768004, 92560768005, 92560768006, 92560768007, 92560768008, 92560768009, 92560768010, 92560768011, 92560768012, 92560768013, 92560768014, 92560768015, 92560768016, 92560768017, 92560768018

METHOD BLANK: 3403716 Matrix: Water

Associated Lab Samples: 92560768002, 92560768003, 92560768004, 92560768005, 92560768006, 92560768007, 92560768008, 92560768009, 92560768010, 92560768011, 92560768012, 92560768013, 92560768014, 92560768015, 92560768016, 92560768017, 92560768018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/23/21 16:34	
Arsenic	mg/L	ND	0.0050	0.0011	09/23/21 16:34	
Barium	mg/L	ND	0.0050	0.00067	09/23/21 16:34	
Beryllium	mg/L	ND	0.00050	0.000054	09/23/21 16:34	
Boron	mg/L	ND	0.040	0.0086	09/23/21 16:34	
Cadmium	mg/L	ND	0.00050	0.00011	09/23/21 16:34	
Chromium	mg/L	ND	0.0050	0.0011	09/23/21 16:34	
Cobalt	mg/L	ND	0.0050	0.00039	09/23/21 16:34	
Lead	mg/L	ND	0.0010	0.00089	09/23/21 16:34	
Lithium	mg/L	ND	0.030	0.00073	09/23/21 16:34	
Molybdenum	mg/L	ND	0.010	0.00074	09/23/21 16:34	
Selenium	mg/L	ND	0.0050	0.0014	09/23/21 16:34	
Thallium	mg/L	ND	0.0010	0.00018	09/23/21 16:34	

LABORATORY CONTROL SAMPLE: 3403717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	110	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.094	94	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.093	93	80-120	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Parameter	Units	3403718		3403719		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560768002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	107	101	75-125	5	20		
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	103	101	75-125	3	20		
Barium	mg/L	0.020	0.1	0.1	0.13	0.12	107	100	75-125	5	20		
Beryllium	mg/L	0.0011	0.1	0.1	0.092	0.091	91	90	75-125	1	20		
Boron	mg/L	2.5	1	1	3.6	3.3	109	87	75-125	6	20		
Cadmium	mg/L	0.00083	0.1	0.1	0.10	0.10	102	101	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.096	0.091	95	91	75-125	5	20		
Cobalt	mg/L	0.013	0.1	0.1	0.11	0.11	97	92	75-125	4	20		
Lead	mg/L	ND	0.1	0.1	0.092	0.088	92	88	75-125	4	20		
Lithium	mg/L	0.012J	0.1	0.1	0.11	0.10	93	91	75-125	3	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.11	0.10	106	100	75-125	6	20		
Thallium	mg/L	ND	0.1	0.1	0.093	0.089	92	88	75-125	4	20		

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch:	649183	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560768019, 92560768020, 92560768021, 92560768022, 92560768023, 92560768024, 92560768025, 92560768026, 92560768027, 92560768028, 92560768029, 92560768030, 92560768031

METHOD BLANK:	3405029	Matrix:	Water
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Associated Lab Samples: 92560768019, 92560768020, 92560768021, 92560768022, 92560768023, 92560768024, 92560768025, 92560768026, 92560768027, 92560768028, 92560768029, 92560768030, 92560768031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/24/21 15:43	
Arsenic	mg/L	ND	0.0050	0.0011	09/24/21 15:43	
Barium	mg/L	ND	0.0050	0.00067	09/24/21 15:43	
Beryllium	mg/L	ND	0.00050	0.000054	09/24/21 15:43	
Boron	mg/L	ND	0.040	0.0086	09/24/21 15:43	
Cadmium	mg/L	ND	0.00050	0.00011	09/24/21 15:43	
Chromium	mg/L	ND	0.0050	0.0011	09/24/21 15:43	
Cobalt	mg/L	ND	0.0050	0.00039	09/24/21 15:43	
Lead	mg/L	ND	0.0010	0.00089	09/24/21 15:43	
Lithium	mg/L	ND	0.030	0.00073	09/24/21 15:43	
Molybdenum	mg/L	ND	0.010	0.00074	09/24/21 15:43	
Selenium	mg/L	ND	0.0050	0.0014	09/24/21 15:43	
Thallium	mg/L	ND	0.0010	0.00018	09/24/21 15:43	

LABORATORY CONTROL SAMPLE: 3405030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	102	80-120	
Arsenic	mg/L	0.1	0.095	95	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	
Selenium	mg/L	0.1	0.094	94	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3405031 3405032

Parameter	Units	92560768019 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Parameter	Units	3405031		3405032		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560768019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Arsenic	mg/L	0.0018J	0.1	0.1	0.098	0.098	96	96	75-125	0	20		
Barium	mg/L	0.016	0.1	0.1	0.12	0.12	105	104	75-125	1	20		
Beryllium	mg/L	0.011	0.1	0.1	0.094	0.092	82	80	75-125	2	20		
Boron	mg/L	0.61	1	1	1.4	1.4	83	77	75-125	4	20		
Cadmium	mg/L	0.00035J	0.1	0.1	0.10	0.10	100	101	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	1	20		
Cobalt	mg/L	0.28	0.1	0.1	0.37	0.36	91	82	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.092	0.094	92	94	75-125	3	20		
Lithium	mg/L	0.085	0.1	0.1	0.16	0.16	78	72	75-125	4	20	M1	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20		
Selenium	mg/L	0.0041J	0.1	0.1	0.10	0.099	96	95	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20		

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch:	649663	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92560768002, 92560768003, 92560768004, 92560768005, 92560768006, 92560768007, 92560768008, 92560768009, 92560768010, 92560768011, 92560768012, 92560768013, 92560768014, 92560768015, 92560768016, 92560768017, 92560768018, 92560768019, 92560768020, 92560768021		

METHOD BLANK:	3407068	Matrix:	Water
Associated Lab Samples:	92560768002, 92560768003, 92560768004, 92560768005, 92560768006, 92560768007, 92560768008, 92560768009, 92560768010, 92560768011, 92560768012, 92560768013, 92560768014, 92560768015, 92560768016, 92560768017, 92560768018, 92560768019, 92560768020, 92560768021		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/28/21 17:04	

LABORATORY CONTROL SAMPLE:	3407069					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3407070			3407071								
Parameter	Units	92560768002 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	0.0026	0.0025	106	99	75-125	6	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch: 649667 Analysis Method: EPA 7470A  
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92560768022, 92560768023, 92560768024, 92560768025, 92560768026, 92560768027, 92560768028, 92560768029, 92560768030, 92560768031

METHOD BLANK: 3407093 Matrix: Water  
 Associated Lab Samples: 92560768022, 92560768023, 92560768024, 92560768025, 92560768026, 92560768027, 92560768028, 92560768029, 92560768030, 92560768031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/28/21 18:20	

LABORATORY CONTROL SAMPLE: 3407094

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3407095 3407096

Parameter	Units	92560768022 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	0.0026	0.0027	103	107	75-125	4	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

QC Batch: 647701 Analysis Method: SM 2540C-2011  
 QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92560768002, 92560768003, 92560768004

METHOD BLANK: 3397222 Matrix: Water  
 Associated Lab Samples: 92560768002, 92560768003, 92560768004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/16/21 14:33	

LABORATORY CONTROL SAMPLE: 3397223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	400	100	90-111	

SAMPLE DUPLICATE: 3397224

Parameter	Units	92560774001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	260	251	4	10	

SAMPLE DUPLICATE: 3397225

Parameter	Units	92560774011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

QC Batch: 648323 Analysis Method: SM 2540C-2011  
 QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92560768006, 92560768007, 92560768008, 92560768009, 92560768010, 92560768011, 92560768012

METHOD BLANK: 3400167 Matrix: Water  
 Associated Lab Samples: 92560768006, 92560768007, 92560768008, 92560768009, 92560768010, 92560768011, 92560768012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/20/21 16:33	

LABORATORY CONTROL SAMPLE: 3400168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	90-111	

SAMPLE DUPLICATE: 3400169

Parameter	Units	92560963001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	139	127	9	10	

SAMPLE DUPLICATE: 3400170

Parameter	Units	92560768008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	296	295	0	10	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

QC Batch: 648469 Analysis Method: SM 2540C-2011  
 QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92560768013, 92560768014, 92560768015, 92560768016, 92560768017, 92560768018, 92560768019, 92560768020, 92560768021, 92560768022

METHOD BLANK: 3400861 Matrix: Water  
 Associated Lab Samples: 92560768013, 92560768014, 92560768015, 92560768016, 92560768017, 92560768018, 92560768019, 92560768020, 92560768021, 92560768022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/21/21 12:32	

LABORATORY CONTROL SAMPLE: 3400862

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	392	98	90-111	

SAMPLE DUPLICATE: 3400863

Parameter	Units	92561295001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	788	808	3	10	

SAMPLE DUPLICATE: 3400864

Parameter	Units	92560768020 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	882	916	4	10	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

QC Batch: 648470 Analysis Method: SM 2540C-2011  
 QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92560768023, 92560768024, 92560768025, 92560768026, 92560768027, 92560768028, 92560768029

METHOD BLANK: 3400865 Matrix: Water  
 Associated Lab Samples: 92560768023, 92560768024, 92560768025, 92560768026, 92560768027, 92560768028, 92560768029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/21/21 19:07	

LABORATORY CONTROL SAMPLE: 3400866

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	400	100	90-111	

SAMPLE DUPLICATE: 3400867

Parameter	Units	92562042001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	78.0	74.0	5	10	

SAMPLE DUPLICATE: 3400868

Parameter	Units	92560768028 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch: 648744	Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560768005

METHOD BLANK: 3402584 Matrix: Water

Associated Lab Samples: 92560768005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/23/21 13:16	

LABORATORY CONTROL SAMPLE: 3402585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	388	97	90-111	

SAMPLE DUPLICATE: 3402586

Parameter	Units	92560768005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	321	321	0	10	H1

SAMPLE DUPLICATE: 3402587

Parameter	Units	92562006004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	440	780	56	10	D6

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch: 649122	Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560768030, 92560768031

METHOD BLANK: 3404908 Matrix: Water  
 Associated Lab Samples: 92560768030, 92560768031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/23/21 20:00	

LABORATORY CONTROL SAMPLE: 3404909

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	397	99	90-111	

SAMPLE DUPLICATE: 3404910

Parameter	Units	92562006012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	644	678	5	10	

SAMPLE DUPLICATE: 3404911

Parameter	Units	92561303008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	113	127	12	10	D6

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch: 647162	Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92560768002

METHOD BLANK: 3394748 Matrix: Water

Associated Lab Samples: 92560768002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/14/21 22:53	
Fluoride	mg/L	ND	0.10	0.050	09/14/21 22:53	
Sulfate	mg/L	ND	1.0	0.50	09/14/21 22:53	

LABORATORY CONTROL SAMPLE: 3394749

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	2.4	97	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394750 3394751

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560938001	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	3.0	50	50	58.4	61.9	111	118	90-110	6	10	M1	
Fluoride	mg/L	0.091J	2.5	2.5	3.4	3.5	131	134	90-110	2	10	M1	
Sulfate	mg/L	33.4	50	50	88.5	91.8	110	117	90-110	4	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394752 3394753

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560676003	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	146	50	50	196	198	99	105	90-110	1	10		
Fluoride	mg/L	0.29	2.5	2.5	4.9	4.8	184	179	90-110	2	10	M1	
Sulfate	mg/L	140	50	50	193	195	105	109	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394754 3394755

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560676001	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	4.9	50	50	62.8	64.2	116	119	90-110	2	10	M1	
Fluoride	mg/L	0.40	2.5	2.5	3.5	3.6	124	127	90-110	2	10	M1	
Sulfate	mg/L	3.8	50	50	62.4	63.7	117	120	90-110	2	10	M1	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch:	647165	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92560768003, 92560768004

METHOD BLANK: 3394756 Matrix: Water

Associated Lab Samples: 92560768003, 92560768004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/15/21 07:09	
Fluoride	mg/L	ND	0.10	0.050	09/15/21 07:09	
Sulfate	mg/L	ND	1.0	0.50	09/15/21 07:09	

LABORATORY CONTROL SAMPLE: 3394757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.7	97	90-110	
Fluoride	mg/L	2.5	2.3	93	90-110	
Sulfate	mg/L	50	49.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394758 3394759

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560768003	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	4.8	50	50	63.0	64.6	116	120	90-110	3	10	M1	
Fluoride	mg/L	0.15	2.5	2.5	3.1	3.1	117	119	90-110	2	10	M1	
Sulfate	mg/L	93.2	50	50	136	137	86	87	90-110	0	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394760 3394761

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560774009	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	12.3	50	50	70.2	71.8	116	119	90-110	2	10	M1	
Fluoride	mg/L	0.084J	2.5	2.5	3.1	3.2	121	125	90-110	3	10	M1	
Sulfate	mg/L	217	50	50	266	268	99	101	90-110	0	10		

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch:	647237	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples:	92560768005, 92560768006, 92560768007, 92560768008, 92560768009, 92560768010, 92560768011		

METHOD BLANK: 3394951 Matrix: Water  
 Associated Lab Samples: 92560768005, 92560768006, 92560768007, 92560768008, 92560768009, 92560768010, 92560768011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/15/21 13:41	
Fluoride	mg/L	ND	0.10	0.050	09/15/21 13:41	
Sulfate	mg/L	ND	1.0	0.50	09/15/21 13:41	

LABORATORY CONTROL SAMPLE: 3394952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.9	94	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394953 3394954

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560774021 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	10.9	50	50	62.5	63.0	103	104	90-110	1	10		
Fluoride	mg/L	0.47	2.5	2.5	3.3	3.3	112	112	90-110	0	10	M1	
Sulfate	mg/L	272	50	50	315	313	87	82	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394955 3394956

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560768007 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	8.7	50	50	59.6	60.9	102	104	90-110	2	10		
Fluoride	mg/L	0.051J	2.5	2.5	2.6	2.7	103	105	90-110	2	10		
Sulfate	mg/L	174	50	50	217	219	88	91	90-110	1	10	M1	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

QC Batch: 647836 Analysis Method: EPA 300.0 Rev 2.1 1993  
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
 Laboratory: Pace Analytical Services - Asheville  
 Associated Lab Samples: 92560768012, 92560768013, 92560768014, 92560768015, 92560768016, 92560768017, 92560768018, 92560768019, 92560768020, 92560768021

METHOD BLANK: 3398262 Matrix: Water  
 Associated Lab Samples: 92560768012, 92560768013, 92560768014, 92560768015, 92560768016, 92560768017, 92560768018, 92560768019, 92560768020, 92560768021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/16/21 21:28	
Fluoride	mg/L	ND	0.10	0.050	09/16/21 21:28	
Sulfate	mg/L	ND	1.0	0.50	09/16/21 21:28	

LABORATORY CONTROL SAMPLE: 3398263

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	98	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3398264 3398265

Parameter	Units	92560967001		3398265		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	1010	50	50	1010	1010	12	-3	90-110	1	10 M1
Fluoride	mg/L	2.7	2.5	2.5	4.9	ND	87	-108	90-110		10 M1
Sulfate	mg/L	88.3	50	50	159	160	141	144	90-110	1	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3398266 3398267

Parameter	Units	92560768012		3398267		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	7.1	50	50	66.5	67.5	119	121	90-110	2	10 M1
Fluoride	mg/L	0.16	2.5	2.5	4.2	4.4	162	169	90-110	4	10 M1
Sulfate	mg/L	73.2	50	50	117	118	88	90	90-110	1	10 M1

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch: 647837 Analysis Method: EPA 300.0 Rev 2.1 1993  
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92560768022

METHOD BLANK: 3398284 Matrix: Water

Associated Lab Samples: 92560768022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/17/21 05:43	
Fluoride	mg/L	ND	0.10	0.050	09/17/21 05:43	
Sulfate	mg/L	ND	1.0	0.50	09/17/21 05:43	

LABORATORY CONTROL SAMPLE: 3398285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.3	99	90-110	
Fluoride	mg/L	2.5	2.3	93	90-110	
Sulfate	mg/L	50	50.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3398286 3398287

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560768022	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	ND	50	50	59.2	60.1	118	120	90-110	2	10	M1	
Fluoride	mg/L	ND	2.5	2.5	2.9	2.9	115	115	90-110	0	10	M1	
Sulfate	mg/L	ND	50	50	59.8	60.7	119	121	90-110	2	10	M1	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch:	647979	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92560768023, 92560768024, 92560768025, 92560768026, 92560768027, 92560768028, 92560768029

METHOD BLANK: 3398609 Matrix: Water  
 Associated Lab Samples: 92560768023, 92560768024, 92560768025, 92560768026, 92560768027, 92560768028, 92560768029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/17/21 23:38	
Fluoride	mg/L	ND	0.10	0.050	09/17/21 23:38	
Sulfate	mg/L	ND	1.0	0.50	09/17/21 23:38	

LABORATORY CONTROL SAMPLE: 3398610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.7	97	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	52.1	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3398611 3398612

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92561816013 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	11900	50	50	50	12800	13000	1830	2190	90-110	1	10	M1
Fluoride	mg/L	3.6	2.5	2.5	2.5	4.3	21.0	29	698	90-110	132	10	M1,R1
Sulfate	mg/L	8660	50	50	50	9380	9600	1430	1880	90-110	2	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3398613 3398614

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560768026 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	29.9	50	50	50	65.4	66.1	71	72	90-110	1	10	M1
Fluoride	mg/L	0.098J	2.5	2.5	2.5	2.8	2.8	109	109	90-110	0	10	
Sulfate	mg/L	325	50	50	50	365	368	81	86	90-110	1	10	M1

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

QC Batch: 648429	Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92560768030, 92560768031

METHOD BLANK: 3400731 Matrix: Water

Associated Lab Samples: 92560768030, 92560768031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/21/21 14:57	
Fluoride	mg/L	ND	0.10	0.050	09/21/21 14:57	
Sulfate	mg/L	ND	1.0	0.50	09/21/21 14:57	

LABORATORY CONTROL SAMPLE: 3400732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.1	102	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	52.2	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3400733 3400734

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92561303004 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	5.6	50	50	56.6	56.8	102	103	90-110	0	10		
Fluoride	mg/L	0.084J	2.5	2.5	3.0	3.0	118	118	90-110	0	10	M1	
Sulfate	mg/L	95.0	50	50	129	129	67	68	90-110	0	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3400735 3400736

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92561637004 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	ND	50	50	50.3	50.7	101	101	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	97	98	90-110	1	10		
Sulfate	mg/L	ND	50	50	52.1	52.5	104	105	90-110	1	10		

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## QUALIFIERS

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
Pace Project No.: 92560768

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### 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

1g In-hold results could not be obtained due to suspected inaccurate tare weights on the stable-weigh bags initially used for analysis

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

H1 Analysis conducted outside the EPA method holding time.

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

R1 RPD value was outside control limits.

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: MCDONOUGH AP-2/3/4 ASSESSMENT  
 Pace Project No.: 92560768

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560768002	B-102D				
92560768003	B-109D				
92560768005	B-56				
92560768006	B-88				
92560768007	B-101D				
92560768008	B-106D				
92560768009	B-107D				
92560768012	B-63				
92560768013	B-66				
92560768014	B-77				
92560768015	B-82				
92560768016	B-104D				
92560768017	B-108D				
92560768018	B-111D				
92560768019	B-115D				
92560768020	B-120D				
92560768023	B-92				
92560768024	B-93				
92560768025	B-97				
92560768026	B-98				
92560768030	B-83				
92560768002	B-102D	EPA 3010A	648974	EPA 6010D	649029
92560768003	B-109D	EPA 3010A	648974	EPA 6010D	649029
92560768004	EB-3	EPA 3010A	648974	EPA 6010D	649029
92560768005	B-56	EPA 3010A	648974	EPA 6010D	649029
92560768006	B-88	EPA 3010A	648974	EPA 6010D	649029
92560768007	B-101D	EPA 3010A	648974	EPA 6010D	649029
92560768008	B-106D	EPA 3010A	648974	EPA 6010D	649029
92560768009	B-107D	EPA 3010A	648974	EPA 6010D	649029
92560768010	FB-3	EPA 3010A	649478	EPA 6010D	649554
92560768011	DUP-3	EPA 3010A	649478	EPA 6010D	649554
92560768012	B-63	EPA 3010A	649478	EPA 6010D	649554
92560768013	B-66	EPA 3010A	649478	EPA 6010D	649554
92560768014	B-77	EPA 3010A	649478	EPA 6010D	649554
92560768015	B-82	EPA 3010A	649478	EPA 6010D	649554
92560768016	B-104D	EPA 3010A	649478	EPA 6010D	649554
92560768017	B-108D	EPA 3010A	649478	EPA 6010D	649554
92560768018	B-111D	EPA 3010A	649478	EPA 6010D	649554
92560768019	B-115D	EPA 3010A	649478	EPA 6010D	649554
92560768020	B-120D	EPA 3010A	649478	EPA 6010D	649554
92560768021	DUP-4	EPA 3010A	649478	EPA 6010D	649554
92560768022	EB-4	EPA 3010A	649478	EPA 6010D	649554
92560768023	B-92	EPA 3010A	649478	EPA 6010D	649554
92560768024	B-93	EPA 3010A	649478	EPA 6010D	649554
92560768025	B-97	EPA 3010A	649478	EPA 6010D	649554
92560768026	B-98	EPA 3010A	649478	EPA 6010D	649554
92560768027	DUP-5	EPA 3010A	649478	EPA 6010D	649554
92560768028	FB-5	EPA 3010A	649478	EPA 6010D	649554

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560768029	EB-5	EPA 3010A	649478	EPA 6010D	649554
92560768030	B-83	EPA 3010A	649648	EPA 6010D	649927
92560768031	FB-6	EPA 3010A	649648	EPA 6010D	649927
92560768002	B-102D	EPA 3005A	648942	EPA 6020B	649044
92560768003	B-109D	EPA 3005A	648942	EPA 6020B	649044
92560768004	EB-3	EPA 3005A	648942	EPA 6020B	649044
92560768005	B-56	EPA 3005A	648942	EPA 6020B	649044
92560768006	B-88	EPA 3005A	648942	EPA 6020B	649044
92560768007	B-101D	EPA 3005A	648942	EPA 6020B	649044
92560768008	B-106D	EPA 3005A	648942	EPA 6020B	649044
92560768009	B-107D	EPA 3005A	648942	EPA 6020B	649044
92560768010	FB-3	EPA 3005A	648942	EPA 6020B	649044
92560768011	DUP-3	EPA 3005A	648942	EPA 6020B	649044
92560768012	B-63	EPA 3005A	648942	EPA 6020B	649044
92560768013	B-66	EPA 3005A	648942	EPA 6020B	649044
92560768014	B-77	EPA 3005A	648942	EPA 6020B	649044
92560768015	B-82	EPA 3005A	648942	EPA 6020B	649044
92560768016	B-104D	EPA 3005A	648942	EPA 6020B	649044
92560768017	B-108D	EPA 3005A	648942	EPA 6020B	649044
92560768018	B-111D	EPA 3005A	648942	EPA 6020B	649044
92560768019	B-115D	EPA 3005A	649183	EPA 6020B	649262
92560768020	B-120D	EPA 3005A	649183	EPA 6020B	649262
92560768021	DUP-4	EPA 3005A	649183	EPA 6020B	649262
92560768022	EB-4	EPA 3005A	649183	EPA 6020B	649262
92560768023	B-92	EPA 3005A	649183	EPA 6020B	649262
92560768024	B-93	EPA 3005A	649183	EPA 6020B	649262
92560768025	B-97	EPA 3005A	649183	EPA 6020B	649262
92560768026	B-98	EPA 3005A	649183	EPA 6020B	649262
92560768027	DUP-5	EPA 3005A	649183	EPA 6020B	649262
92560768028	FB-5	EPA 3005A	649183	EPA 6020B	649262
92560768029	EB-5	EPA 3005A	649183	EPA 6020B	649262
92560768030	B-83	EPA 3005A	649183	EPA 6020B	649262
92560768031	FB-6	EPA 3005A	649183	EPA 6020B	649262
92560768002	B-102D	EPA 7470A	649663	EPA 7470A	649674
92560768003	B-109D	EPA 7470A	649663	EPA 7470A	649674
92560768004	EB-3	EPA 7470A	649663	EPA 7470A	649674
92560768005	B-56	EPA 7470A	649663	EPA 7470A	649674
92560768006	B-88	EPA 7470A	649663	EPA 7470A	649674
92560768007	B-101D	EPA 7470A	649663	EPA 7470A	649674
92560768008	B-106D	EPA 7470A	649663	EPA 7470A	649674
92560768009	B-107D	EPA 7470A	649663	EPA 7470A	649674
92560768010	FB-3	EPA 7470A	649663	EPA 7470A	649674
92560768011	DUP-3	EPA 7470A	649663	EPA 7470A	649674
92560768012	B-63	EPA 7470A	649663	EPA 7470A	649674
92560768013	B-66	EPA 7470A	649663	EPA 7470A	649674
92560768014	B-77	EPA 7470A	649663	EPA 7470A	649674
92560768015	B-82	EPA 7470A	649663	EPA 7470A	649674

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560768016	B-104D	EPA 7470A	649663	EPA 7470A	649674
92560768017	B-108D	EPA 7470A	649663	EPA 7470A	649674
92560768018	B-111D	EPA 7470A	649663	EPA 7470A	649674
92560768019	B-115D	EPA 7470A	649663	EPA 7470A	649674
92560768020	B-120D	EPA 7470A	649663	EPA 7470A	649674
92560768021	DUP-4	EPA 7470A	649663	EPA 7470A	649674
92560768022	EB-4	EPA 7470A	649667	EPA 7470A	649675
92560768023	B-92	EPA 7470A	649667	EPA 7470A	649675
92560768024	B-93	EPA 7470A	649667	EPA 7470A	649675
92560768025	B-97	EPA 7470A	649667	EPA 7470A	649675
92560768026	B-98	EPA 7470A	649667	EPA 7470A	649675
92560768027	DUP-5	EPA 7470A	649667	EPA 7470A	649675
92560768028	FB-5	EPA 7470A	649667	EPA 7470A	649675
92560768029	EB-5	EPA 7470A	649667	EPA 7470A	649675
92560768030	B-83	EPA 7470A	649667	EPA 7470A	649675
92560768031	FB-6	EPA 7470A	649667	EPA 7470A	649675
92560768002	B-102D	SM 2540C-2011	647701		
92560768003	B-109D	SM 2540C-2011	647701		
92560768004	EB-3	SM 2540C-2011	647701		
92560768005	B-56	SM 2540C-2011	648744		
92560768006	B-88	SM 2540C-2011	648323		
92560768007	B-101D	SM 2540C-2011	648323		
92560768008	B-106D	SM 2540C-2011	648323		
92560768009	B-107D	SM 2540C-2011	648323		
92560768010	FB-3	SM 2540C-2011	648323		
92560768011	DUP-3	SM 2540C-2011	648323		
92560768012	B-63	SM 2540C-2011	648323		
92560768013	B-66	SM 2540C-2011	648469		
92560768014	B-77	SM 2540C-2011	648469		
92560768015	B-82	SM 2540C-2011	648469		
92560768016	B-104D	SM 2540C-2011	648469		
92560768017	B-108D	SM 2540C-2011	648469		
92560768018	B-111D	SM 2540C-2011	648469		
92560768019	B-115D	SM 2540C-2011	648469		
92560768020	B-120D	SM 2540C-2011	648469		
92560768021	DUP-4	SM 2540C-2011	648469		
92560768022	EB-4	SM 2540C-2011	648469		
92560768023	B-92	SM 2540C-2011	648470		
92560768024	B-93	SM 2540C-2011	648470		
92560768025	B-97	SM 2540C-2011	648470		
92560768026	B-98	SM 2540C-2011	648470		
92560768027	DUP-5	SM 2540C-2011	648470		
92560768028	FB-5	SM 2540C-2011	648470		
92560768029	EB-5	SM 2540C-2011	648470		
92560768030	B-83	SM 2540C-2011	649122		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2/3/4 ASSESSMENT

Pace Project No.: 92560768

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560768031	FB-6	SM 2540C-2011	649122		
92560768002	B-102D	EPA 300.0 Rev 2.1 1993	647162		
92560768003	B-109D	EPA 300.0 Rev 2.1 1993	647165		
92560768004	EB-3	EPA 300.0 Rev 2.1 1993	647165		
92560768005	B-56	EPA 300.0 Rev 2.1 1993	647237		
92560768006	B-88	EPA 300.0 Rev 2.1 1993	647237		
92560768007	B-101D	EPA 300.0 Rev 2.1 1993	647237		
92560768008	B-106D	EPA 300.0 Rev 2.1 1993	647237		
92560768009	B-107D	EPA 300.0 Rev 2.1 1993	647237		
92560768010	FB-3	EPA 300.0 Rev 2.1 1993	647237		
92560768011	DUP-3	EPA 300.0 Rev 2.1 1993	647237		
92560768012	B-63	EPA 300.0 Rev 2.1 1993	647836		
92560768013	B-66	EPA 300.0 Rev 2.1 1993	647836		
92560768014	B-77	EPA 300.0 Rev 2.1 1993	647836		
92560768015	B-82	EPA 300.0 Rev 2.1 1993	647836		
92560768016	B-104D	EPA 300.0 Rev 2.1 1993	647836		
92560768017	B-108D	EPA 300.0 Rev 2.1 1993	647836		
92560768018	B-111D	EPA 300.0 Rev 2.1 1993	647836		
92560768019	B-115D	EPA 300.0 Rev 2.1 1993	647836		
92560768020	B-120D	EPA 300.0 Rev 2.1 1993	647836		
92560768021	DUP-4	EPA 300.0 Rev 2.1 1993	647836		
92560768022	EB-4	EPA 300.0 Rev 2.1 1993	647837		
92560768023	B-92	EPA 300.0 Rev 2.1 1993	647979		
92560768024	B-93	EPA 300.0 Rev 2.1 1993	647979		
92560768025	B-97	EPA 300.0 Rev 2.1 1993	647979		
92560768026	B-98	EPA 300.0 Rev 2.1 1993	647979		
92560768027	DUP-5	EPA 300.0 Rev 2.1 1993	647979		
92560768028	FB-5	EPA 300.0 Rev 2.1 1993	647979		
92560768029	EB-5	EPA 300.0 Rev 2.1 1993	647979		
92560768030	B-83	EPA 300.0 Rev 2.1 1993	648429		
92560768031	FB-6	EPA 300.0 Rev 2.1 1993	648429		

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Document Name: Sample Collection Log for (CLM)  
 Document No: R-CM-003 Rev. 03

Document Approved: October 28, 2020  
 Page 1 of 2  
 Issuing Authority: Pace Analytical Quality Office

Laboratory receiving samples:

- Ashville  Eden  Greenwood  HUNTERVILLE  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition  
 Liquid/Solids

Class Name: Water  
 Project ID: \_\_\_\_\_  
 County:  Fed.  Local  Other   
 Commercial  Public  Other

Job #: 92560768

Custody Seal Present?  No  Yes Seal Intact?  Yes  No

Use of Custody Seal (Required)  No  Yes

Packing Material:  Bubble wrap  Bubble Bag  None  Other  
 Temperature:  In container 23.2  In lab 23.1  Other  None

Biological Hazard Present?  Yes  No  N/A

Cooler Temp: 3.0 Correction Factor: 0.1  
 Method/Instrument ID: \_\_\_\_\_

Temp should be above 10 degrees F  
 Sample not at temperature & Sample OK for testing unless  
 Pre-Report

Cooler Temp (Adjusted) (F): 3.1  
 USDA Regulated Soil (  AKA water sample)

If samples are from a jurisdiction other than the State of NC, VA, TN, or SC (check mark)  
 Yes  No

Do samples originate from a foreign jurisdiction?  No  Yes  
 Country/Region: \_\_\_\_\_

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Sample Analyzed within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	3.
100% Hold Time Analyzed (OTW for)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1.
Analytical Turn Around Time Response?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Labels are YOC (Yes)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	6.
Proper Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Containers Labeled?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5.
Proper Analytical Samples of old Material?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	1.
Sample Labels Match (Yes)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Include Data (Time/ID) Analyzed? <u>Yes</u>				
Temperature of YOC Vials (Yes/No)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	10.
Temp Labels Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	10.
Temperature Custody Seal Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	

Excess (N/A) Sample Disposition: \_\_\_\_\_ Excess Data (Required)  Yes  No

Number of YOC Containers: \_\_\_\_\_  
 Number of YOC Containers: \_\_\_\_\_

Number of YOC Containers: \_\_\_\_\_  
 Number of YOC Containers: \_\_\_\_\_

Person Submitted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SOP Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SOP Review: \_\_\_\_\_ Date: \_\_\_\_\_

**QUALITY OF CUSTODY / Analytical Request Document**  
 The Custodian/Analyst is to use this form to record both actual and estimated recoveries.

<b>Case No.:</b>	<b>Date:</b>
<b>Officer:</b>	<b>Analyst:</b>
<b>Location:</b>	<b>Time:</b>
<b>Vehicle:</b>	<b>Make:</b>
<b>Color:</b>	<b>Year:</b>
<b>License:</b>	<b>State:</b>
<b>Weight:</b>	<b>Make:</b>
<b>Make:</b>	<b>Year:</b>
<b>Model:</b>	<b>Color:</b>
<b>Year:</b>	<b>Weight:</b>
<b>Make:</b>	<b>Make:</b>
<b>Year:</b>	<b>Year:</b>
<b>Model:</b>	<b>Model:</b>
<b>Year:</b>	<b>Year:</b>

SAMPLE ID				RECOVERY			
Lot	Weight	Make	Year	Model	Year	Model	Year
1	1000	1000	1000	1000	1000	1000	1000
2	1000	1000	1000	1000	1000	1000	1000
3	1000	1000	1000	1000	1000	1000	1000
4	1000	1000	1000	1000	1000	1000	1000
5	1000	1000	1000	1000	1000	1000	1000
6	1000	1000	1000	1000	1000	1000	1000
7	1000	1000	1000	1000	1000	1000	1000
8	1000	1000	1000	1000	1000	1000	1000
9	1000	1000	1000	1000	1000	1000	1000
10	1000	1000	1000	1000	1000	1000	1000

**Remarks:** [Handwritten notes]

**Signature:** [Handwritten signature]

**Date:** [Handwritten date]



Document Name  
Sample Condition Upon Receipt (SCUR)  
Document No.  
P-CAR-03-031 Rev.07

Document Revised: October 14, 2025  
Page 2 of 2  
Issued Author: [Name]  
Pace Analytical Quality Office

Laboratory receiving samples:

Atlanta  Eden  Greenwood  Huntsville  Raleigh  Spartanburg  Atlanta  ~~Rockwell~~

Sample Condition (SCUR)  Client Name: Gift Power Project #:

System:  Field  Durs  UPS  Other

Other

Quality Self-Inspection  Pass  Not Pass?  Fail  No

Defect/Problem/Action/Comments: Gift Power

Printing requested:  No label  No label  None  Other

Test method:  Other  HERTZ Type of lot:  New  Old  None

Capacitor Temp: 33 Temperature Factor: Add Customer (C) -0.1

Temperature of space freezing to 0°C  Sample put in fully sealed samples or not cooling until full begin

Control Type (Controlled)  UNCL

UNCL Regulated  Not Regulated

Do samples originate from a large source (manufacturer, distributor, wholesaler, and retailer)  No  Yes

Each of Capacity (mWh)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	1
Sample checked within 48 hours?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	1
Energy Head Name Analyzed (mWh)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	3
Build Time Analyzed (Time Analyzed)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	4 <u>10 Day Test</u>
Full Name Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	3
Control (Controlled) used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	1
Free Conduction (Free)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	1
Component in use?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	3
Insulated Multiple Samples for 2 (Insulated)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	1
Sample Label (MWh) (C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	3

Insulated (Time to Analyze) NA

Temperature of (MWh) (C) NA

Tip Bank (mWh)?  Yes  No  NA

Tip Bank (mWh) (mWh) NA

Control (mWh) (mWh) (mWh)  Yes  No

2-100 percent, even though it is crossed out on the COC

For 100% of the containers:

3-100 on separate project

Person contacted: Daniela Herrera 4/14/21 10:27

Project Manager SCUR Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager Self Review: \_\_\_\_\_ Date: \_\_\_\_\_

**CHAIN-OF-CUSTODY ANALYTICAL REQUEST DOCUMENT**  
 This Form is to be used for collection of chemical evidence and is to be completed accordingly

Form 1 of 1

Section 1 - Case Information		Section 2 - Sample Information			Section 3 - Test Information					Section 4 - Laboratory Information			
Case No.	123456	Sample No.	001	Sample Name	Seizure Bag	Quantity	1	Unit	g	Test Name	GC/MS	Laboratory Name	ABC Lab
Requester Name	John Doe	Collector Name	J. Smith	Collector Title	Police Officer	Agency	1234 St.	City	ABC	Test Date	01/20/2025	Analyst Name	J. Doe
Requester Address	123 Main St.	Collector Address	456 Elm St.	Collector Phone	(555) 123-4567	Agency Phone	(555) 987-6543	City	ABC	Test Method	GC/MS	Analyst Title	Analyst
Requester Phone	(555) 123-4567	Collector Email	jsmith@pd.com	Collector Signature	[Signature]	Agency Email	abc@pd.com	City	ABC	Test Method	GC/MS	Analyst Signature	[Signature]
Requester Email	john.doe@pd.com	Collector Date	01/15/2025	Collector Initials	J.S.	Agency Website	www.abc.gov	City	ABC	Test Method	GC/MS	Analyst Signature	[Signature]
Requester Fax	(555) 123-4567	Collector Time	10:00 AM	Collector Signature	[Signature]	Agency Website	www.abc.gov	City	ABC	Test Method	GC/MS	Analyst Signature	[Signature]
Requester Email	john.doe@pd.com	Collector Time	10:00 AM	Collector Signature	[Signature]	Agency Website	www.abc.gov	City	ABC	Test Method	GC/MS	Analyst Signature	[Signature]
1	Sample	GC/MS	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g
2	Sample	GC/MS	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g
3	Sample	GC/MS	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g
4	Sample	GC/MS	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g
5	Sample	GC/MS	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g
6	Sample	GC/MS	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g
7	Sample	GC/MS	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g
8	Sample	GC/MS	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g
9	Sample	GC/MS	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g
10	Sample	GC/MS	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g
11	Sample	GC/MS	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g
12	Sample	GC/MS	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g
13	Sample	GC/MS	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g
14	Sample	GC/MS	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g
15	Sample	GC/MS	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g
16	Sample	GC/MS	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g
17	Sample	GC/MS	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g
18	Sample	GC/MS	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g
19	Sample	GC/MS	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g
20	Sample	GC/MS	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g





Laboratory receiving samples:

Atlanta  Eden  Greensboro  Huntsville  Raleigh  Mechanicalville  Atlanta  -Tannerville

Sample Location:  
**Food Service**

Client Name:

Project #:

Counter:

Commercial

Food Service  Other  Other  Other  Other

Comply with 3052?

Yes  No  Not Applicable  Yes  No

Outbreak or Person Training Center  Yes  No  P.C.A.

Working Materials:

Subtle Virus  Double Bag  None  Other

Biological Hazards Present?

Yes  No  N/A

Thermometer:

In Use

Not in Use

Freeze after:

Yes  No  None

Cooler Temp:

32.0

Connection Factor:

Add/Subtract (C)

+10

Temp should be above freezing level

Complete list of sample items, location of collecting process has begun

(make temp corrected (C))

22.0

USDA Registered Staff  Yes  No  N/A

Did sample originate in a commercial kitchen within the United States, CA, HI, or DC (check one)?

Yes  No

Did sample originate from a foreign source (international, including Alaska and Hawaii)?

Yes  No

Continuity/Discrepancy

Open of Custody Project?

Yes  No  N/A

1

Sampling device within food item?

Yes  No  N/A

4

Short Hold Time Analysis (HTA) for PF

Yes  No  N/A

3

Sample Temp Reported (Time Reported)?

Yes  No  N/A

4

Supplier Unknown?

Yes  No  N/A

5

Control Container used?

Yes  No  N/A

6

Freeze Container sealed?

Yes  No  N/A

7

Cooler Temp below 1?

Yes  No  N/A

3

Unlabeled Sample in Sample Package Received?

Yes  No  N/A

8

Sample Temp. Match SCUR?

Yes  No  N/A

10

Inventory Date/Time (C) 10/24/2020 11:00 AM

Substation

Handoff to NOAA within 30 mins?

Yes  No  N/A

11

Temp. Match Reported?

Yes  No  N/A

12

Time & Date Custody logs Entered?

Yes  No  N/A

13

Controlled by USAMRIID/DCO/PHNCP?

Temp Data Reported?  Yes  No

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Person contacted? \_\_\_\_\_ Date/Time \_\_\_\_\_

Project Manager SCUR Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SHP Review: \_\_\_\_\_ Date: \_\_\_\_\_

# CHAIN OF CUSTODY - ANALYTICAL REQUEST DOCUMENT

The Chain of Custody for all EPA, OGC, and/or all other data used in analytical services.



Section 1: Analytical Information			Section 2: Request Information			Section 3: Project Information			Section 4: Sample Information									
Client Name: Date of Collection: Sample ID:			Requester Name: Request Date: Requested Method:			Project Name: Requested Method: Requested Method:			Sample ID: Sample Description: Sample Location:									
<p style="text-align: center;"><b>SAMPLE ID</b>                      Chain of Custody for                      Sample ID: 1</p>	1	Sample	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	2	Sample	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	3	Sample	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	4	Sample	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
	5	Sample	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	6	Sample	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	7	Sample	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	8	Sample	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	9	Sample	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	10	Sample	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	11	Sample	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
	12	Sample	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	13	Sample	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
	14	Sample	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
ANALYST SIGNATURE												ANALYST SIGNATURE						
DATE												DATE						



Laboratory receiving samples:

Asheville  Eden  Greenwood  Mount Airy  Raleigh  Mechanicsville  Atlanta  Kernersville

Symbol & Condition Upon Receipt

Client Name:

Project #:

Number  Commercial  
 Fed Ex  UPS  USPS  Other  
 Mail  Other

Customs form required?  Yes  No Seal intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer:  N/A  Yes Type of box  Flat  Box  Other

Cooler Temp. 3.3 Correction Factor: Add/Subtract (°C) + 0.1

Cooler Temp. Corrected (°C) 3.4

Unlabeled bag placed in cooler?  Yes  No

Did samples originate in a quality controlled environment (per client scope, lab, etc. or by laboratory)?

Yes  No

Temp should be stored (keeping to 6°C)  
 Sample out of temperature (temping on ice, cooling process, etc.)

Did samples originate from a foreign source (international, including non-USA and Puerto Rico)?  Yes  
 Commercial Shipment

Origin of Sample Received?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1
Temp(s) in cooler (in Hold Time?)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2
Must Hold Time Analyte (API or P)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3
Bank Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4
Sufficient volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5
Correct Containers used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6
Pure Containers used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6
Correctly sealed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7
Discarded samples (temping, temp. filtered)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8
Sample labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9
Includes Data/T-Trace/Analysis Matrix	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10
Headlines in VOCA (MS-STRM)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10
File name matching?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11
Trig and Cutoffs Match STRM?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11

COMMENTS/ANALYST DISCREPANCY

Additional Comments  Yes  No

\_\_\_\_\_

CLIENT APPROVAL/RECEIPT SIGNATURE

Lot # of split containers

\_\_\_\_\_

Date/Time Received \_\_\_\_\_ Count # \_\_\_\_\_

Project Manager SCUM Review \_\_\_\_\_

Date \_\_\_\_\_

Project Manager MS Review \_\_\_\_\_

Date \_\_\_\_\_

2

CHLORINE-DUSTING ANALYSIS REQUEST DOCUMENT  
 The Division of Quality & Control, Department of Environmental and Forestry

Page 1 of 1

Requester Information		Request Information				Requester Contact Information				Requester Signature			
Requester Name: <u>State of New York</u>		Request Number: <u>123456789</u>		Request Date: <u>10/20/2010</u>		Requester Name: <u>John Doe</u>		Requester Title: <u>Director</u>		Requester Phone: <u>516-555-1234</u>		Requester Signature: <u>[Signature]</u>	
Requester Address: <u>State Capitol Building</u>		Request Description: <u>Chlorine Dusting Analysis</u>		Requesting Agency: <u>Department of Environmental Conservation</u>		Requester Email: <u>john.doe@state.ny.us</u>		Requester Fax: <u>516-555-5678</u>		Requester Filing Date: <u>10/20/2010</u>		Requester Filing Time: <u>10:30 AM</u>	
Requester City: <u>Albany</u>		Request Status: <u>Submitted</u>		Requesting Agency Address: <u>625 Route 9W</u>		Requester Cell: <u>516-555-9012</u>		Requester Home: <u>516-555-3456</u>		Requester Mailing: <u>516-555-7890</u>		Requester Other: <u>516-555-1111</u>	
Requester State: <u>NY</u>		Request Priority: <u>Standard</u>		Requesting Agency City: <u>Malverne</u>		Requester Work: <u>516-555-2345</u>		Requester Business: <u>516-555-6789</u>		Requester Personal: <u>516-555-0123</u>		Requester Mobile: <u>516-555-4567</u>	
Requester Zip: <u>12224</u>		Request Fee: <u>\$0.00</u>		Requesting Agency State: <u>CA</u>		Requester Other: <u>516-555-8901</u>		Requester Other: <u>516-555-2345</u>		Requester Other: <u>516-555-6789</u>		Requester Other: <u>516-555-0123</u>	
SAMPLE ID: <u>123456789</u> ANALYST: <u>John Doe</u> DATE: <u>10/20/2010</u> TIME: <u>10:30 AM</u>													
1	123456789	10/20/2010	10:30 AM	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789
2	123456789	10/20/2010	10:30 AM	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789
3	123456789	10/20/2010	10:30 AM	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789
4	123456789	10/20/2010	10:30 AM	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789
5	123456789	10/20/2010	10:30 AM	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789
6	123456789	10/20/2010	10:30 AM	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789
7	123456789	10/20/2010	10:30 AM	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789
8	123456789	10/20/2010	10:30 AM	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789
9	123456789	10/20/2010	10:30 AM	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789
10	123456789	10/20/2010	10:30 AM	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789
11	123456789	10/20/2010	10:30 AM	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789
12	123456789	10/20/2010	10:30 AM	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789
13	123456789	10/20/2010	10:30 AM	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789
14	123456789	10/20/2010	10:30 AM	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789

John Doe, Director



Document Name: Sample Collection Union Register (2/1/17)  
 Document No: FORM CD-603-Rev 07

Document Revised: October 18, 2013  
 Page 1 of 1  
 Issued By: John R. Smith  
 Face Control: John R. Smith

**Laboratory Receiving Multiple:**

Ashville  Eden  Greenwood  Huntsville  Raleigh  Mechanicsville  Atlanta  Kennesaw

**Sample Collection Union Register**

Client Name: G.A. Power Project # 1701  
 Insects  Fish  Other  Plant

Commercial

Custody Seal Present?  Yes  No Seal Intact?  Yes  No

Date/Time of Sample Collection: 9/17/17  
 Biological Hazard Present?  Yes  No

Packing Materials:  Bubble Wrap  Bubble Paper  Ice  Other  None  
 Refrigerated?  Yes  No

Cooler Temp: 2.0 Cooler Temp. (F): 2.0  
 Add/No. Ice Packs: 2.0

Temp should be above freezing to kill   Sample out of temperature. Samples are ok. Cooling packs not begun.

Cooler Temp. Controlled (F): 2.0  
 USDA Regulated Soil?  Yes  No

Did samples originate from a jurisdiction outside the United States (A, M, or SC) or International?  Yes  No  
 Did samples originate from a jurisdiction or internationally including Guam and Puerto Rico?  Yes  No

Item	Yes	No	Other	Priority	Comments/Remarks
Chain of Custody Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	
Sample in Approved Leak-Proof Container?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	
Shredded Hold Temp. Analysis (if applicable)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3	
Apply Fresh Analytical Media (if required)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	
Supply Log Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5	
Control Media used (if applicable)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	
Face Containment Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	
Container Sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8	
Revised analysis. Samples held together?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	9	
Verify all Labels MATCH IUC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10	
Include Date/Time/ID Analysis Matrix	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11	
Refrigeration in Coolers (if applicable)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12	
Temp. and Pressure?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13	
Temp. and Custody Seal Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14	
Conserved in USGS/USFWS Database?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15	

Lot ID of split containers: \_\_\_\_\_

**CLIENT NOTIFICATION/RESOLUTION**

\_\_\_\_\_

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_ UNIT \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ UNIT \_\_\_\_\_



# CHAIN-OF-CUSTODY Analytical Request Document

The Chain-of-Custody and LOGS OF EVIDENCE - All relevant fields must be completed accurately.

Page 04

<b>Section 1</b> Requester Information	<b>Section 2</b> Sample From	<b>Section 3</b> Requester Information	<b>Section 4</b> Requester Information
Case Name: <i>George Brown - Case Correlation Request</i>	Case No: <i>100-111111</i>	Requester: <i>100-111111/100-111111</i>	Requester Agency: <i>100-111111</i>
Address: <i>100-111111</i>	City: <i>100-111111</i>	Case Name: <i>100-111111</i>	Case No: <i>100-111111</i>
Name of Subject: <i>100-111111</i>	Request Date: <i>100-111111</i>	Case No: <i>100-111111</i>	Requester Agency: <i>100-111111</i>
Requester Title: <i>100-111111</i>	Requester Name: <i>100-111111</i>	Requester Title: <i>100-111111</i>	Requester Name: <i>100-111111</i>
Requester Address: <i>100-111111</i>	Requester City: <i>100-111111</i>	Requester Address: <i>100-111111</i>	Requester City: <i>100-111111</i>

Date	Time	Location	Officer	Agency	Activity	Sample ID				Sample Description
						1	2	3	4	
1	10:00	100-111111	100-111111	100-111111	100-111111	100-111111	100-111111	100-111111	100-111111	100-111111
2	10:05	100-111111	100-111111	100-111111	100-111111	100-111111	100-111111	100-111111	100-111111	100-111111
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

Requester Signature: <i>[Signature]</i>	Requester Title: <i>100-111111</i>	Requester Agency: <i>100-111111</i>	Requester Date: <i>100-111111</i>	Requester Time: <i>100-111111</i>	Requester Location: <i>100-111111</i>	Requester Activity: <i>100-111111</i>	Requester Agency: <i>100-111111</i>
Requester Signature: <i>[Signature]</i>							Requester Agency: <i>100-111111</i>



November 04, 2021

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

RE: Project: MCDONOUGH AP-2/3/4 ASSESS RADS  
Pace Project No.: 92560765

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 10, 2021 and September 17, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

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

Enclosures

cc: Stephen Benda  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power  
Kristen Jurinko  
J. Shelby Mobley  
Charles Norton, Southern Company  
Ms. Lauren Petty, Southern Company  
Dawn Prell, Golder Associates Inc.  
Tim Richards, Golder Associates - Atlanta



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MCDONOUGH AP-2/3/4 ASSESS RAD5  
Pace Project No.: 92560765

---

### Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 04222CA  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
Delaware Certification  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Florida: Cert E871149 SEKS WET  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas/TNI Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA180012  
Louisiana DEQ/TNI Certification #: 4086  
Maine Certification #: 2017020  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572018-1  
New Hampshire/TNI Certification #: 297617  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-010  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: 02867  
Texas/TNI Certification #: T104704188-17-3  
Utah/TNI Certification #: PA014572017-9  
USDA Soil Permit #: P330-17-00091  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 9526  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad  
Wyoming Certification #: 8TMS-L

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92560765002	B-102D	Water	09/10/21 14:27	09/10/21 17:40
92560765003	B-109D	Water	09/10/21 13:05	09/10/21 17:40
92560765004	EB-3	Water	09/10/21 15:00	09/10/21 17:40
92560765005	B-56	Water	09/13/21 13:11	09/14/21 09:35
92560765006	B-88	Water	09/13/21 14:35	09/14/21 09:35
92560765007	B-101D	Water	09/13/21 15:52	09/14/21 09:35
92560765008	B-106D	Water	09/13/21 12:10	09/14/21 09:35
92560765009	B-107D	Water	09/13/21 17:35	09/14/21 09:35
92560765010	FB-3	Water	09/13/21 16:30	09/14/21 09:35
92560765011	DUP-3	Water	09/13/21 00:00	09/14/21 09:35
92560765012	B-63	Water	09/14/21 12:45	09/15/21 09:34
92560765013	B-66	Water	09/14/21 11:02	09/15/21 09:34
92560765014	B-77	Water	09/14/21 10:45	09/15/21 09:34
92560765015	B-82	Water	09/14/21 12:55	09/15/21 09:34
92560765016	B-104D	Water	09/14/21 16:45	09/15/21 09:34
92560765017	B-108D	Water	09/14/21 11:25	09/15/21 09:34
92560765018	B-111D	Water	09/14/21 15:37	09/15/21 09:34
92560765019	B-115D	Water	09/14/21 15:00	09/15/21 09:34
92560765020	B-120D	Water	09/14/21 14:50	09/15/21 09:34
92560765021	DUP-4	Water	09/14/21 00:00	09/15/21 09:34
92560765022	EB-4	Water	09/14/21 16:35	09/15/21 09:34
92560765023	B-92	Water	09/15/21 11:38	09/16/21 09:06
92560765024	B-93	Water	09/15/21 11:31	09/16/21 09:06
92560765025	B-97	Water	09/15/21 12:50	09/16/21 09:06
92560765026	B-98	Water	09/15/21 13:10	09/16/21 09:06
92560765027	DUP-5	Water	09/15/21 00:00	09/16/21 09:06
92560765028	FB-5	Water	09/15/21 13:25	09/16/21 09:06
92560765029	EB-5	Water	09/15/21 13:35	09/16/21 09:06
92560765030	B-83	Water	09/16/21 11:37	09/17/21 17:06
92560765031	FB-6	Water	09/16/21 11:55	09/17/21 17:06

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92560765002	B-102D	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765003	B-109D	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765004	EB-3	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765005	B-56	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765006	B-88	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765007	B-101D	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765008	B-106D	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765009	B-107D	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765010	FB-3	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765011	DUP-3	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765012	B-63	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765013	B-66	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765014	B-77	EPA 9315	CLA	1	PASI-PA

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92560765015	B-82	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92560765016	B-104D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92560765017	B-108D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92560765018	B-111D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92560765019	B-115D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92560765020	B-120D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92560765021	DUP-4	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92560765022	EB-4	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92560765023	B-92	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92560765024	B-93	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92560765025	B-97	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92560765026	B-98	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92560765027	DUP-5	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92560765028	FB-5	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92560765029	EB-5	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92560765030	B-83	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92560765031	FB-6	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

**Sample: B-102D**      **Lab ID: 92560765002**      Collected: 09/10/21 14:27      Received: 09/10/21 17:40      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	<b>0.642 ± 0.288 (0.352)</b> <b>C:98% T:NA</b>	pCi/L	10/06/21 08:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.10 ± 0.487 (0.784)</b> <b>C:62% T:88%</b>	pCi/L	10/04/21 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.74 ± 0.775 (1.14)</b>	pCi/L	10/07/21 15:34	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

**Sample: B-109D**      **Lab ID: 92560765003**      Collected: 09/10/21 13:05      Received: 09/10/21 17:40      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	<b>3.09 ± 0.717 (0.375)</b> <b>C:93% T:NA</b>	pCi/L	10/06/21 08:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>6.36 ± 1.39 (0.888)</b> <b>C:65% T:88%</b>	pCi/L	10/04/21 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>9.45 ± 2.11 (1.26)</b>	pCi/L	10/07/21 15:34	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: EB-3</b> <b>Lab ID: 92560765004</b> Collected: 09/10/21 15:00      Received: 09/10/21 17:40      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.392 ± 0.246 (0.389)</b> <b>C:98% T:NA</b>	pCi/L	10/06/21 08:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.569 ± 0.383 (0.721)</b> <b>C:65% T:89%</b>	pCi/L	10/04/21 14:59	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.961 ± 0.629 (1.11)</b>	pCi/L	10/07/21 15:34	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-56</b> <b>Lab ID: 92560765005</b> Collected: 09/13/21 13:11      Received: 09/14/21 09:35      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.330 ± 0.262 (0.457)</b> <b>C:97% T:NA</b>	pCi/L	10/06/21 11:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.524 ± 0.359 (0.673)</b> <b>C:69% T:85%</b>	pCi/L	10/04/21 15:00	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.854 ± 0.621 (1.13)</b>	pCi/L	10/07/21 15:34	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-88</b> <b>Lab ID: 92560765006</b> Collected: 09/13/21 14:35      Received: 09/14/21 09:35      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.437 ± 0.308 (0.537)</b> <b>C:95% T:NA</b>	pCi/L	10/06/21 11:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.334 ± 0.339 (0.696)</b> <b>C:65% T:91%</b>	pCi/L	10/04/21 15:00	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.771 ± 0.647 (1.23)</b>	pCi/L	10/07/21 15:34	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-101D</b> <b>Lab ID: 92560765007</b> Collected: 09/13/21 15:52      Received: 09/14/21 09:35      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.330 ± 0.250 (0.421)</b> <b>C:94% T:NA</b>	pCi/L	10/06/21 12:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>1.47 ± 0.527 (0.740)</b> <b>C:64% T:92%</b>	pCi/L	10/04/21 15:00	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.80 ± 0.777 (1.16)</b>	pCi/L	10/07/21 15:34	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

**Sample: B-106D**      **Lab ID: 92560765008**      Collected: 09/13/21 12:10      Received: 09/14/21 09:35      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.159 ± 0.195 (0.397)</b> <b>C:92% T:NA</b>	pCi/L	10/06/21 12:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.466 ± 0.412 (0.835)</b> <b>C:63% T:93%</b>	pCi/L	10/04/21 15:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.625 ± 0.607 (1.23)</b>	pCi/L	10/07/21 15:34	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

**Sample: B-107D**      **Lab ID: 92560765009**      Collected: 09/13/21 17:35      Received: 09/14/21 09:35      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.349 ± 0.264 (0.459)</b> <b>C:95% T:NA</b>	pCi/L	10/06/21 12:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.464 ± 0.388 (0.773)</b> <b>C:62% T:94%</b>	pCi/L	10/04/21 15:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.813 ± 0.652 (1.23)</b>	pCi/L	10/07/21 15:34	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

**Sample: FB-3**      **Lab ID: 92560765010**      Collected: 09/13/21 16:30      Received: 09/14/21 09:35      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0425 ± 0.180 (0.458)</b> <b>C:97% T:NA</b>	pCi/L	10/06/21 12:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.855 ± 0.434 (0.742)</b> <b>C:67% T:91%</b>	pCi/L	10/04/21 15:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.898 ± 0.614 (1.20)</b>	pCi/L	10/07/21 15:34	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0608 ± 0.169 (0.413)</b> <b>C:94% T:NA</b>	pCi/L	10/06/21 12:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.346 ± 0.366 (0.761)</b> <b>C:68% T:95%</b>	pCi/L	10/04/21 15:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.407 ± 0.535 (1.17)</b>	pCi/L	10/07/21 15:34	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-63</b> <b>Lab ID: 92560765012</b> Collected: 09/14/21 12:45      Received: 09/15/21 09:34      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.981 ± 0.427 (0.562)</b> <b>C:92% T:NA</b>	pCi/L	10/06/21 12:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.703 ± 0.469 (0.886)</b> <b>C:62% T:80%</b>	pCi/L	10/04/21 15:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.68 ± 0.896 (1.45)</b>	pCi/L	10/07/21 15:34	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

**Sample: B-66**      **Lab ID: 92560765013**      Collected: 09/14/21 11:02      Received: 09/15/21 09:34      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	<b>0.152 ± 0.198 (0.423)</b> <b>C:96% T:NA</b>	pCi/L	10/07/21 07:58	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.269 ± 0.385 (0.826)</b> <b>C:63% T:92%</b>	pCi/L	10/04/21 15:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.421 ± 0.583 (1.25)</b>	pCi/L	10/07/21 15:34	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-77</b> <b>Lab ID: 92560765014</b> Collected: 09/14/21 10:45      Received: 09/15/21 09:34      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.428 ± 0.234 (0.303)</b> <b>C:96% T:NA</b>	pCi/L	10/07/21 07:58	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.189 ± 0.446 (0.989)</b> <b>C:64% T:92%</b>	pCi/L	10/04/21 15:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.617 ± 0.680 (1.29)</b>	pCi/L	10/07/21 15:34	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

**Sample: B-82**      **Lab ID: 92560765015**      Collected: 09/14/21 12:55      Received: 09/15/21 09:34      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	<b>0.295 ± 0.225 (0.399)</b> <b>C:95% T:NA</b>	pCi/L	10/07/21 07:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.739 ± 0.434 (0.802)</b> <b>C:65% T:95%</b>	pCi/L	10/04/21 15:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.03 ± 0.659 (1.20)</b>	pCi/L	10/07/21 15:34	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

**Sample: B-104D**      **Lab ID: 92560765016**      Collected: 09/14/21 16:45      Received: 09/15/21 09:34      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	<b>2.74 ± 0.667 (0.492)</b> <b>C:98% T:NA</b>	pCi/L	10/07/21 07:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>6.86 ± 1.48 (0.938)</b> <b>C:64% T:88%</b>	pCi/L	10/04/21 15:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>9.60 ± 2.15 (1.43)</b>	pCi/L	10/07/21 15:35	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

**Sample: B-108D**      **Lab ID: 92560765017**      Collected: 09/14/21 11:25      Received: 09/15/21 09:34      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	<b>0.302 ± 0.225 (0.400)</b> <b>C:99% T:NA</b>	pCi/L	10/07/21 07:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.615 ± 0.598 (1.23)</b> <b>C:62% T:61%</b>	pCi/L	10/04/21 15:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.917 ± 0.823 (1.63)</b>	pCi/L	10/07/21 15:35	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

**Sample: B-111D**      **Lab ID: 92560765018**      Collected: 09/14/21 15:37      Received: 09/15/21 09:34      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	<b>2.47 ± 0.610 (0.392)</b> <b>C:96% T:NA</b>	pCi/L	10/07/21 07:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.92 ± 0.599 (0.750)</b> <b>C:64% T:94%</b>	pCi/L	10/04/21 15:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>4.39 ± 1.21 (1.14)</b>	pCi/L	10/07/21 15:35	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-115D</b> <b>Lab ID: 92560765019</b> Collected: 09/14/21 15:00      Received: 09/15/21 09:34      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>3.07 ± 0.707 (0.450)</b> <b>C:98% T:NA</b>	pCi/L	10/07/21 07:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>8.87 ± 1.80 (0.717)</b> <b>C:65% T:94%</b>	pCi/L	10/04/21 15:07	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>11.9 ± 2.51 (1.17)</b>	pCi/L	10/07/21 15:35	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-120D</b> <b>Lab ID: 92560765020</b> Collected: 09/14/21 14:50      Received: 09/15/21 09:34      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>1.17 ± 0.404 (0.338)</b> <b>C:97% T:NA</b>	pCi/L	10/07/21 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>2.51 ± 0.770 (0.948)</b> <b>C:61% T:87%</b>	pCi/L	10/06/21 11:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>3.68 ± 1.17 (1.29)</b>	pCi/L	10/07/21 15:35	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

**Sample: DUP-4**      **Lab ID: 92560765021**      Collected: 09/14/21 00:00      Received: 09/15/21 09:34      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	<b>0.0272 ± 0.161 (0.414)</b> <b>C:97% T:NA</b>	pCi/L	10/07/21 08:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.976 ± 0.443 (0.738)</b> <b>C:69% T:85%</b>	pCi/L	10/06/21 11:14	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.00 ± 0.604 (1.15)</b>	pCi/L	10/07/21 15:35	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

**Sample: EB-4**      **Lab ID: 92560765022**      Collected: 09/14/21 16:35      Received: 09/15/21 09:34      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	<b>0.0543 ± 0.174 (0.425)</b> <b>C:100% T:NA</b>	pCi/L	10/07/21 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.392 ± 0.312 (0.616)</b> <b>C:74% T:89%</b>	pCi/L	10/06/21 11:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.446 ± 0.486 (1.04)</b>	pCi/L	10/07/21 15:35	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

**Sample: B-92**      **Lab ID: 92560765023**      Collected: 09/15/21 11:38      Received: 09/16/21 09:06      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.416 ± 0.278 (0.487)</b> <b>C:94% T:NA</b>	pCi/L	10/06/21 08:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.977 ± 0.468 (0.822)</b> <b>C:74% T:88%</b>	pCi/L	09/30/21 11:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.39 ± 0.746 (1.31)</b>	pCi/L	10/07/21 15:41	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-93</b> <b>Lab ID: 92560765024</b> Collected: 09/15/21 11:31      Received: 09/16/21 09:06      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.372 ± 0.246 (0.402)</b> <b>C:88% T:NA</b>	pCi/L	10/06/21 08:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.47 ± 0.523 (0.762)</b> <b>C:72% T:85%</b>	pCi/L	09/30/21 11:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.84 ± 0.769 (1.16)</b>	pCi/L	10/07/21 15:41	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-97</b> <b>Lab ID: 92560765025</b> Collected: 09/15/21 12:50      Received: 09/16/21 09:06      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.566 ± 0.289 (0.386)</b> <b>C:86% T:NA</b>	pCi/L	10/06/21 08:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>1.54 ± 0.537 (0.770)</b> <b>C:71% T:88%</b>	pCi/L	09/30/21 11:24	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>2.11 ± 0.826 (1.16)</b>	pCi/L	10/07/21 15:41	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

**Sample: B-98**      **Lab ID: 92560765026**      Collected: 09/15/21 13:10      Received: 09/16/21 09:06      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>1.31 ± 0.460 (0.566)</b> <b>C:88% T:NA</b>	pCi/L	10/06/21 08:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.889 ± 0.463 (0.838)</b> <b>C:72% T:89%</b>	pCi/L	09/30/21 11:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.20 ± 0.923 (1.40)</b>	pCi/L	10/07/21 15:41	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

**Sample: DUP-5**      **Lab ID: 92560765027**      Collected: 09/15/21 00:00      Received: 09/16/21 09:06      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.585 ± 0.304 (0.461)</b> <b>C:93% T:NA</b>	pCi/L	10/06/21 08:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.12 ± 0.518 (0.897)</b> <b>C:71% T:84%</b>	pCi/L	09/30/21 11:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.71 ± 0.822 (1.36)</b>	pCi/L	10/07/21 15:41	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: FB-5</b> <b>Lab ID: 92560765028</b> Collected: 09/15/21 13:25      Received: 09/16/21 09:06      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>-0.00298 ± 0.124 (0.353)</b> <b>C:89% T:NA</b>	pCi/L	10/06/21 08:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>-0.146 ± 0.351 (0.843)</b> <b>C:73% T:84%</b>	pCi/L	09/30/21 11:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.000 ± 0.475 (1.20)</b>	pCi/L	10/07/21 15:41	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: EB-5</b> <b>Lab ID: 92560765029</b> Collected: 09/15/21 13:35      Received: 09/16/21 09:06      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0177 ± 0.162 (0.420)</b> <b>C:95% T:NA</b>	pCi/L	10/06/21 08:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.338 ± 0.407 (0.863)</b> <b>C:72% T:85%</b>	pCi/L	09/30/21 11:25	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.356 ± 0.569 (1.28)</b>	pCi/L	10/07/21 15:41	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

**Sample: B-83**      **Lab ID: 92560765030**      Collected: 09/16/21 11:37      Received: 09/17/21 17:06      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.207 ± 0.177 (0.311)</b> <b>C:95% T:NA</b>	pCi/L	10/08/21 08:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.235 ± 0.368 (0.797)</b> <b>C:64% T:89%</b>	pCi/L	10/07/21 14:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.442 ± 0.545 (1.11)</b>	pCi/L	10/20/21 17:19	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

**Sample: FB-6**      **Lab ID: 92560765031**      Collected: 09/16/21 11:55      Received: 09/17/21 17:06      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>2.51 ± 0.852 (1.12)</b> <b>C:92% T:NA</b>	pCi/L	10/19/21 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>-0.301 ± 0.368 (0.928)</b> <b>C:61% T:89%</b>	pCi/L	10/07/21 14:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.51 ± 1.22 (2.05)</b>	pCi/L	10/20/21 17:24	7440-14-4	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

QC Batch: 466957	Analysis Method: EPA 9315
QC Batch Method: EPA 9315	Analysis Description: 9315 Total Radium
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765031

METHOD BLANK: 2255015 Matrix: Water

Associated Lab Samples: 92560765031

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0260 ± 0.142 (0.353) C:102% T:NA	pCi/L	10/19/21 08:55	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

QC Batch: 465345

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765005, 92560765006, 92560765007, 92560765008, 92560765009, 92560765010, 92560765011, 92560765012, 92560765013, 92560765014, 92560765015, 92560765016, 92560765017, 92560765018, 92560765019

METHOD BLANK: 2247073

Matrix: Water

Associated Lab Samples: 92560765005, 92560765006, 92560765007, 92560765008, 92560765009, 92560765010, 92560765011, 92560765012, 92560765013, 92560765014, 92560765015, 92560765016, 92560765017, 92560765018, 92560765019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.306 ± 0.283 (0.572) C:72% T:95%	pCi/L	10/04/21 11:58	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

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QC Batch:	465341	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765023, 92560765024, 92560765025, 92560765026, 92560765027, 92560765028, 92560765029

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METHOD BLANK: 2247067 Matrix: Water

Associated Lab Samples: 92560765023, 92560765024, 92560765025, 92560765026, 92560765027, 92560765028, 92560765029

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.554 ± 0.366 (0.696) C:72% T:88%	pCi/L	09/30/21 11:24	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

QC Batch: 466410

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765030, 92560765031

METHOD BLANK: 2252279

Matrix: Water

Associated Lab Samples: 92560765030, 92560765031

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.420 ± 0.367 (0.738) C:65% T:90%	pCi/L	10/07/21 11:22	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

QC Batch: 465348

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765020, 92560765021, 92560765022

METHOD BLANK: 2247079

Matrix: Water

Associated Lab Samples: 92560765020, 92560765021, 92560765022

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.625 ± 0.317 (0.544) C:74% T:91%	pCi/L	10/06/21 11:18	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

QC Batch: 465347 Analysis Method: EPA 9315

QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765005, 92560765006, 92560765007, 92560765008, 92560765009, 92560765010, 92560765011, 92560765012, 92560765013, 92560765014, 92560765015, 92560765016, 92560765017, 92560765018, 92560765019

METHOD BLANK: 2247077 Matrix: Water

Associated Lab Samples: 92560765005, 92560765006, 92560765007, 92560765008, 92560765009, 92560765010, 92560765011, 92560765012, 92560765013, 92560765014, 92560765015, 92560765016, 92560765017, 92560765018, 92560765019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0279 ± 0.217 (0.589) C:92% T:NA	pCi/L	10/06/21 12:00	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

QC Batch: 465350

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765020, 92560765021, 92560765022

METHOD BLANK: 2247083

Matrix: Water

Associated Lab Samples: 92560765020, 92560765021, 92560765022

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0502 ± 0.146 (0.360) C:88% T:NA	pCi/L	10/07/21 08:30	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

QC Batch: 465343

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765002, 92560765003, 92560765004

METHOD BLANK: 2247069

Matrix: Water

Associated Lab Samples: 92560765002, 92560765003, 92560765004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.209 ± 0.287 (0.612) C:69% T:89%	pCi/L	10/04/21 11:58	

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 AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

QC Batch: 466264

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765030

METHOD BLANK: 2251638

Matrix: Water

Associated Lab Samples: 92560765030

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.284 ± 0.229 (0.421) C:95% T:NA	pCi/L	10/08/21 08:00	

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

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

QC Batch: 465344

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765002, 92560765003, 92560765004

METHOD BLANK: 2247072

Matrix: Water

Associated Lab Samples: 92560765002, 92560765003, 92560765004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00717 ± 0.168 (0.443) C:96% T:NA	pCi/L	10/06/21 08:19	

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

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2/3/4 ASSESS RADS

Pace Project No.: 92560765

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QC Batch:	465342	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765023, 92560765024, 92560765025, 92560765026, 92560765027, 92560765028, 92560765029

---

METHOD BLANK: 2247068 Matrix: Water

Associated Lab Samples: 92560765023, 92560765024, 92560765025, 92560765026, 92560765027, 92560765028, 92560765029

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.189 ± 0.181 (0.337) C:97% T:NA	pCi/L	10/06/21 08:11	

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

**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: MCDONOUGH AP-2/3/4 ASSESS RADS  
Pace Project No.: 92560765

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: MCDONOUGH AP-2/3/4 ASSESS RAD5

Pace Project No.: 92560765

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560765002	B-102D	EPA 9315	465344		
92560765003	B-109D	EPA 9315	465344		
92560765004	EB-3	EPA 9315	465344		
92560765005	B-56	EPA 9315	465347		
92560765006	B-88	EPA 9315	465347		
92560765007	B-101D	EPA 9315	465347		
92560765008	B-106D	EPA 9315	465347		
92560765009	B-107D	EPA 9315	465347		
92560765010	FB-3	EPA 9315	465347		
92560765011	DUP-3	EPA 9315	465347		
92560765012	B-63	EPA 9315	465347		
92560765013	B-66	EPA 9315	465347		
92560765014	B-77	EPA 9315	465347		
92560765015	B-82	EPA 9315	465347		
92560765016	B-104D	EPA 9315	465347		
92560765017	B-108D	EPA 9315	465347		
92560765018	B-111D	EPA 9315	465347		
92560765019	B-115D	EPA 9315	465347		
92560765020	B-120D	EPA 9315	465350		
92560765021	DUP-4	EPA 9315	465350		
92560765022	EB-4	EPA 9315	465350		
92560765023	B-92	EPA 9315	465342		
92560765024	B-93	EPA 9315	465342		
92560765025	B-97	EPA 9315	465342		
92560765026	B-98	EPA 9315	465342		
92560765027	DUP-5	EPA 9315	465342		
92560765028	FB-5	EPA 9315	465342		
92560765029	EB-5	EPA 9315	465342		
92560765030	B-83	EPA 9315	466264		
92560765031	FB-6	EPA 9315	466957		
92560765002	B-102D	EPA 9320	465343		
92560765003	B-109D	EPA 9320	465343		
92560765004	EB-3	EPA 9320	465343		
92560765005	B-56	EPA 9320	465345		
92560765006	B-88	EPA 9320	465345		
92560765007	B-101D	EPA 9320	465345		
92560765008	B-106D	EPA 9320	465345		
92560765009	B-107D	EPA 9320	465345		
92560765010	FB-3	EPA 9320	465345		
92560765011	DUP-3	EPA 9320	465345		
92560765012	B-63	EPA 9320	465345		
92560765013	B-66	EPA 9320	465345		
92560765014	B-77	EPA 9320	465345		
92560765015	B-82	EPA 9320	465345		
92560765016	B-104D	EPA 9320	465345		

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: MCDONOUGH AP-2/3/4 ASSESS RADS  
 Pace Project No.: 92560765

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560765017	B-108D	EPA 9320	465345		
92560765018	B-111D	EPA 9320	465345		
92560765019	B-115D	EPA 9320	465345		
92560765020	B-120D	EPA 9320	465348		
92560765021	DUP-4	EPA 9320	465348		
92560765022	EB-4	EPA 9320	465348		
92560765023	B-92	EPA 9320	465341		
92560765024	B-93	EPA 9320	465341		
92560765025	B-97	EPA 9320	465341		
92560765026	B-98	EPA 9320	465341		
92560765027	DUP-5	EPA 9320	465341		
92560765028	FB-5	EPA 9320	465341		
92560765029	EB-5	EPA 9320	465341		
92560765030	B-83	EPA 9320	466410		
92560765031	FB-6	EPA 9320	466410		
92560765002	B-102D	Total Radium Calculation	467213		
92560765003	B-109D	Total Radium Calculation	467213		
92560765004	EB-3	Total Radium Calculation	467213		
92560765005	B-56	Total Radium Calculation	467213		
92560765006	B-88	Total Radium Calculation	467213		
92560765007	B-101D	Total Radium Calculation	467213		
92560765008	B-106D	Total Radium Calculation	467213		
92560765009	B-107D	Total Radium Calculation	467213		
92560765010	FB-3	Total Radium Calculation	467213		
92560765011	DUP-3	Total Radium Calculation	467213		
92560765012	B-63	Total Radium Calculation	467213		
92560765013	B-66	Total Radium Calculation	467213		
92560765014	B-77	Total Radium Calculation	467213		
92560765015	B-82	Total Radium Calculation	467213		
92560765016	B-104D	Total Radium Calculation	467218		
92560765017	B-108D	Total Radium Calculation	467218		
92560765018	B-111D	Total Radium Calculation	467218		
92560765019	B-115D	Total Radium Calculation	467218		
92560765020	B-120D	Total Radium Calculation	467218		
92560765021	DUP-4	Total Radium Calculation	467218		
92560765022	EB-4	Total Radium Calculation	467218		
92560765023	B-92	Total Radium Calculation	467224		
92560765024	B-93	Total Radium Calculation	467224		
92560765025	B-97	Total Radium Calculation	467224		
92560765026	B-98	Total Radium Calculation	467224		
92560765027	DUP-5	Total Radium Calculation	467224		
92560765028	FB-5	Total Radium Calculation	467224		
92560765029	EB-5	Total Radium Calculation	467224		
92560765030	B-83	Total Radium Calculation	469110		
92560765031	FB-6	Total Radium Calculation	469112		

**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2/3/4 ASSESS RADS  
Pace Project No.: 92560765

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
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### REPORT OF LABORATORY ANALYSIS

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Document Name: Sample Collection Log for (CLM)  
 Document No: PCAR-003 Rev. 03

Document Approved: October 28, 2020  
 Page 1 of 2  
 Issuing Authority: Pace Analytical Quality Office

Laboratory receiving samples:

Ashville  Eden  Greenwood  HUNTERVILLE  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition  
 Liquid/Solids

Class Name: Water (SOLID)  
 Project ID: \_\_\_\_\_  
 Fed.  Lab  Lab  Other  
 Commercial  Public  Other

LAB#: 92560768

Custody Seal Present?  No  Yes Seal Intact?  Yes  No

Packing Material  Bubble wrap  Bubble Bags  None  Other

Thermometer:  In Use ID: 232 Price of lot: Other  Other  None

Cooler Temp: 3.0 Correction Factor: 0.0 Add/Subtract (C): 0.0

Cooler Temp (Adjusted) (C): 3.0  
 USDA Regulated Soil  AKA water sample

If samples are part of a quantitative analysis within the last 30 days (CA, NY, or SC) check mass:  Yes  No

Use of Custody Seals (Required)  Yes  No

Biological Hazard Present?  Yes  No  N/A

Temp should be above 10°C (50°F)  Yes  No  N/A

Do samples originate from a foreign country or are internationally traded?  Yes  No

Chain of Custody Present?	Yes	No	N/A	3
Sample Analyzed within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3
100% Heat Stable Analysis (HTA) (C)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Analytical Turnaround Time Response?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4
Labels are YOC (Yes)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6
Proper Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Containers Labeled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5
Proper Analytical Sample of old Material?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1
Sample Labels Match (Yes)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4
Include Data (Time/ID) Analysis? <i>Yes</i>				
Temperature of YOC Vials (Yes/No)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	3
Temp Labels Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	3
Temperature Custody Seal Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	

Excess (N/A) Sample Disposition: \_\_\_\_\_ Total Data Required:  Yes  No

Number of Total Containers: \_\_\_\_\_

Number of Samples Analyzed: \_\_\_\_\_

Person Submitted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager (CLM) Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager (SW) Review: \_\_\_\_\_ Date: \_\_\_\_\_

**QUALITY OF CUSTODY / Analytical Request Document**  
 The Custodian/Analyst is to use this form to record both actual and estimated quantities.

Case No.	100-100000
Subcase No.	
Agency	Los Angeles
Officer	John Doe
Analyst	John Doe
Date	10/10/2000
Time	10:00 AM
Location	123 Main St, Los Angeles, CA
Offense	...
Requester	...
Request	...
Comments	...

Item No.	Description	Quantity	Unit	Material	Color	Shape	Size	Weight	Volume	Value	Remarks
1	SAMPLE 10	1	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...

Submitted by: John Doe  
 Date: 10/10/2000  
 Signature: [Signature]  
 Title: Analyst



Laboratory receiving samples:

Ashleyville  Eden  Greenwood  Hillsboroville  Raleigh  Weymouthville  Atlanta  ~~Ramothville~~

Sample ID and Test Case Number: SCUR Client Name: Gift Power Project #: \_\_\_\_\_

Quantity: 33  Pails  Drums  Totes  Other \_\_\_\_\_

Quantity Seal Integrity:  All  Some Intact?  Yes  No

Receiving Inspector:  Subject Matter  Subject Matter  Other  Other \_\_\_\_\_

Test Number:  # of # 118214 Type of lot:  Batch  Other \_\_\_\_\_

Copy Temp: 33 Temperature Factor: Add/Subtract (°C) -0.1 Temperature of space freezing to 0°C:  Sample put in fully sealed samples or not cooling area at all  No

Control Temp. (Controlled [°C]): 3.2

UNION Registered  EPA, water approval

Do samples originate from a large source (construction site, demolition, etc.) and require test?  Yes  No

Do samples originate from a large source (construction site, demolition, etc.) and require test?  Yes  No

Sample ID	Test Case	Quantity	Seal Integrity	Notes
1	1	1	Intact	
2	1	1	Intact	
3	1	1	Intact	
4	10	10	Intact	10 Day Test
5	1	1	Intact	
6	1	1	Intact	
7	1	1	Intact	
8	1	1	Intact	
9	1	1	Intact	
10	1	1	Intact	
11	1	1	Intact	
12	1	1	Intact	
13	1	1	Intact	

Control Temp. (Controlled [°C]): 3.2 Are Data Reported?  Yes  No

2-100 percent, even though it is crossed out on the COC.

Client Reference/Contract Number: 3-100 on separate project

Person contacted: Daniela Herrera phone: 4/4/21 10:27

Project Manager SCUR Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager TLF Review: \_\_\_\_\_ Date: \_\_\_\_\_

**CHAIN-OF-CUSTODY ANALYTICAL REQUEST DOCUMENT**  
 The Sample Chain of Custody Document is a record which must be completed accurately

Form C

Rev. 1.0

<b>Sample Information</b>	<b>Sample Description</b>	<b>Sample Location</b>
Sample ID: <u>                    </u> Date of Collection: <u>                    </u> Collector: <u>                    </u> Client: <u>                    </u>	Description: <u>                    </u> Matrix: <u>                    </u> Quantity: <u>                    </u> Container: <u>                    </u>	Location: <u>                    </u> Site: <u>                    </u> Coordinates: <u>                    </u>

Step	Description	Date	Time	Initials	Signature	Title	Analysis Test		Method	Reference
							App. Test Method	Q.P. Test Method		
1	Sample ID									
2	Sample Description									
3	Sample Location									
4	Sample Collection									
5	Sample Storage									
6	Sample Transport									
7	Sample Receipt									
8	Sample Analysis									
9	Sample Reporting									
10	Sample Archiving									

Step	Description	Date	Time	Initials	Signature	Title
1	Sample ID					
2	Sample Description					
3	Sample Location					
4	Sample Collection					
5	Sample Storage					
6	Sample Transport					
7	Sample Receipt					
8	Sample Analysis					
9	Sample Reporting					
10	Sample Archiving					

Approved by:                      Date:                       
 Chain of Custody ID:                       
 Date of Collection:                       
 Date of Analysis:                       
 Date of Reporting:



Laboratory receiving samples:

Asheville  Eden  Greensboro  Hillsboro  Raleigh  Mechanicsville  Atlanta  -Warrentonville

Sample Information  
 (continued)

Client Name:

Project #:

County:

Commercial

Retail  
 Other

Dairy

Poultry

Other

Comply with 1925.27?

Yes

No

Seal (1925.27)?

Yes

No

Printing Materials:

Subtle Print

Double Sided

Heavy

Other

Thermometer:

In Case

In Use

Freeze after?

Yes

No

None

Cooler Temp:

32.0

Connection Factor:

Add/Subtract (C)

+1.0

Temp should be above freezing level

Complete list of sample serial numbers on accompanying invoice has been

(make temp corrected (C))

33.0

USDA Registered Seal?  Yes, under # \_\_\_\_\_

Is sample originally in a cooler or in leak source and opened before CA, NC, or SC (check manufacturer)?

Yes  No

Are samples originate from a foreign source (manufacturer, including type of and country of)?

Yes  No

(Country/Origin)

Open of Cooler Project?

Yes

No

N/A

3

Sampling device within seal intact?

Yes

No

N/A

4

Short Mold Time Analysis (MTI) test?

Yes

No

N/A

3

Time Temp Around Time Rejected?

Yes

No

N/A

4

Sufficient Volume?

Yes

No

N/A

5

Correct Container used?

Yes

No

N/A

6

Freeze Container sealed?

Yes

No

N/A

7

Cooler Temp below 1?

Yes

No

N/A

3

Sealed and labeled Sample Package Received?

Yes

No

N/A

8

Sample Package Marked SCUR?

Yes

No

N/A

9

Inspection Date/Time/CA, NC, or SC

11/11

Marked Seal by NOAA with this Serial?

Yes

No

N/A

10

Temp Seal Present?

Yes

No

N/A

11

Temp Seal Conductivity Seal Present?

Yes

No

N/A

1

Covered in USAMRIID 2008 Manual

Temp Data Required?  Yes  No

Lot/Qual info, containers

Client signature/agency address

Person contacted?

Date/Time

Project Manager SCUR Review

Date:

Project Manager SHF Review

Date:

**CHAIN OF CUSTODY / ANALYTICAL REQUEST DOCUMENT**  
 The Chain of Custody is an ISO 9001:2015 requirement and must be completed accurately.

*[Handwritten Signature]*

Section 1: Analytical Information		Section 2: Requester Information		Section 3: Project Information		Section 4: Laboratory Information	
Client Name	Client Address	Requester Name	Requester Title	Project Name	Project Number	Laboratory Name	Laboratory Address
Client Phone	Client Email	Requester Phone	Requester Email	Project Location	Project Start Date	Laboratory Phone	Laboratory Email
Client Website	Client Contact	Requester Website	Requester Contact	Project Description	Project End Date	Laboratory Website	Laboratory Contact
<p><b>SAMPLE ID</b>                      Client Sample ID: 12345678                      Sample Description: [Handwritten]</p>		<p><b>Requester ID</b>                      Requester ID: [Handwritten]</p>		<p><b>Sample Type</b>                      Sample Type: [Handwritten]</p>		<p><b>Sample Quantity</b>                      Sample Quantity: [Handwritten]</p>	
1	NO	1	NO	1	NO	1	NO
2	NO	2	NO	2	NO	2	NO
3	NO	3	NO	3	NO	3	NO
4	NO	4	NO	4	NO	4	NO
5	NO	5	NO	5	NO	5	NO
6	NO	6	NO	6	NO	6	NO
7	NO	7	NO	7	NO	7	NO
8	NO	8	NO	8	NO	8	NO
9	NO	9	NO	9	NO	9	NO
10	NO	10	NO	10	NO	10	NO
11	NO	11	NO	11	NO	11	NO
12	NO	12	NO	12	NO	12	NO
13	NO	13	NO	13	NO	13	NO
14	NO	14	NO	14	NO	14	NO
15	NO	15	NO	15	NO	15	NO
16	NO	16	NO	16	NO	16	NO
17	NO	17	NO	17	NO	17	NO
18	NO	18	NO	18	NO	18	NO
19	NO	19	NO	19	NO	19	NO
20	NO	20	NO	20	NO	20	NO
21	NO	21	NO	21	NO	21	NO
22	NO	22	NO	22	NO	22	NO
23	NO	23	NO	23	NO	23	NO
24	NO	24	NO	24	NO	24	NO
25	NO	25	NO	25	NO	25	NO
26	NO	26	NO	26	NO	26	NO
27	NO	27	NO	27	NO	27	NO
28	NO	28	NO	28	NO	28	NO
29	NO	29	NO	29	NO	29	NO
30	NO	30	NO	30	NO	30	NO
31	NO	31	NO	31	NO	31	NO
32	NO	32	NO	32	NO	32	NO
33	NO	33	NO	33	NO	33	NO
34	NO	34	NO	34	NO	34	NO
35	NO	35	NO	35	NO	35	NO
36	NO	36	NO	36	NO	36	NO
37	NO	37	NO	37	NO	37	NO
38	NO	38	NO	38	NO	38	NO
39	NO	39	NO	39	NO	39	NO
40	NO	40	NO	40	NO	40	NO
41	NO	41	NO	41	NO	41	NO
42	NO	42	NO	42	NO	42	NO
43	NO	43	NO	43	NO	43	NO
44	NO	44	NO	44	NO	44	NO
45	NO	45	NO	45	NO	45	NO
46	NO	46	NO	46	NO	46	NO
47	NO	47	NO	47	NO	47	NO
48	NO	48	NO	48	NO	48	NO
49	NO	49	NO	49	NO	49	NO
50	NO	50	NO	50	NO	50	NO

John J. [Handwritten] 5 [Handwritten] 7-15-21



Laboratory receiving samples:

Asheville  Eden  Greenwood  Mount Airy  Raleigh  Mechanicsville  Atlanta  Kernersville

Symbol & Location Upon Receipt

Client Name: Gettysburg Project #:

Number of Containers:  1  2  3  4  
 Carboys  Kegs  Buses  Other

Capacity Label Present?  Yes  No Seal Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer:  NIST  Other  
 Type of Ice:  Wet  Dry  None

Cooler Temp. 3.3 Correction Factor: +0.1

Cooler Temp. Corrected (T<sub>c</sub>): 3.4

Unlabeled bag placed inside?  Yes  No  
 Did samples originate in a quantity or configuration that differs from the original scope (e.g., lot, or by, or type, or size)?  Yes  No



Date, Time, and Person Receiving Container: 10/17/22

Biological Threat Project?  Yes  No  N/A

Temp should be above freezing (0°C)  
 Sample out of temperature range during storage, packing, or transit by courier

Did samples originate from a foreign source (international, including non-US and Puerto Rico)?  Yes  No  
 Commercial Shipment?  Yes  No

Number of Containers Received?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1	
Temp. in container upon receipt?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2	
Temp. in cooler upon receipt (T <sub>c</sub> )?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3	
Seal Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4	
Sufficient volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5	
Correct Containers used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6	
Pure Containers used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7	
Correctly sealed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8	
Drumhead images (temp. label) present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9	
Sample labels match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10	
Includes DataT-Track Analysis Matrix?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11	
Includes list of VOC analytes (S-E-T-M)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12	
Any other comments?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13	
Temperature Control Seal Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14	

Comments/Remarks/Discrepancy: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



20

CHLORINE-DUSTICID ANALYTICAL REQUEST DOCUMENT  
The Division of Quality and Control, Department of Health Services, State of Washington

Request No. 10

Requester: State of Washington  
 Requester Address: 1000 University Street, Seattle, WA 98101  
 Requester Phone: 206-462-3000  
 Requester Name: Dr. J. W. Smith  
 Requester Title: Director  
 Requester Organization: Department of Health Services  
 Requester Signature: [Signature]  
 Date: 10/10/71

Sample ID: 1000-10-10-10  
 Description of Sample: Chlorine-Dusticide  
 Date of Collection: 10/10/71  
 Location of Collection: Seattle, WA  
 Name of Collector: J. W. Smith

No.	Description of Sample	Date of Collection	Location of Collection	Name of Collector	Chlorine-Dusticide		Total Chlorine-Dusticide	Total Chlorine-Dusticide	Total Chlorine-Dusticide	Total Chlorine-Dusticide	Total Chlorine-Dusticide	Total Chlorine-Dusticide	Total Chlorine-Dusticide
					Chlorine-Dusticide	Chlorine-Dusticide							
1	1000-10-10-10	10/10/71	Seattle, WA	J. W. Smith	1000	1000	1000	1000	1000	1000	1000	1000	
2	1000-10-10-10	10/10/71	Seattle, WA	J. W. Smith	1000	1000	1000	1000	1000	1000	1000	1000	
3	1000-10-10-10	10/10/71	Seattle, WA	J. W. Smith	1000	1000	1000	1000	1000	1000	1000	1000	
4	1000-10-10-10	10/10/71	Seattle, WA	J. W. Smith	1000	1000	1000	1000	1000	1000	1000	1000	
5	1000-10-10-10	10/10/71	Seattle, WA	J. W. Smith	1000	1000	1000	1000	1000	1000	1000	1000	
6	1000-10-10-10	10/10/71	Seattle, WA	J. W. Smith	1000	1000	1000	1000	1000	1000	1000	1000	
7	1000-10-10-10	10/10/71	Seattle, WA	J. W. Smith	1000	1000	1000	1000	1000	1000	1000	1000	
8	1000-10-10-10	10/10/71	Seattle, WA	J. W. Smith	1000	1000	1000	1000	1000	1000	1000	1000	
9	1000-10-10-10	10/10/71	Seattle, WA	J. W. Smith	1000	1000	1000	1000	1000	1000	1000	1000	
10	1000-10-10-10	10/10/71	Seattle, WA	J. W. Smith	1000	1000	1000	1000	1000	1000	1000	1000	

Number of Samples: 10  
 Name of Analytical Laboratory: State of Washington  
 Address of Analytical Laboratory: 1000 University Street, Seattle, WA 98101  
 Phone of Analytical Laboratory: 206-462-3000  
 Name of Analytical Laboratory: J. W. Smith  
 Address of Analytical Laboratory: 1000 University Street, Seattle, WA 98101  
 Phone of Analytical Laboratory: 206-462-3000

John W. Smith, Director



Document Name: Sample Collection Union Register (SRF)  
 Document No: FORM DA-603-Rev 07

Document Revised: October 18, 2009  
 Page 1 of 1  
 Issued By: \_\_\_\_\_  
 Date: \_\_\_\_\_

**Laboratory Receiving Multiple:**

Athens  Eden  Greenwood  Huntsville  Raleigh  Marietta  Atlanta  Kennesaw

**Sample Collection Union Register**

Client Name: G.A. Power Project # \_\_\_\_\_  
 Insects  Fish  Other \_\_\_\_\_  
 Commercial  Recreational  Other \_\_\_\_\_

Custody Seal Present?  Yes  No Seal Intact?  Yes  No

Date/Time of Sample Collection: 9/17/09

Packing Materials:  Bubble Wrap  Bubble Paper  Ice  Other \_\_\_\_\_  
 Refrigerated?  Yes  No  Other \_\_\_\_\_

Biological Hazard Present?  Yes  No  Other \_\_\_\_\_

Cooler Temp: 2.0 Cooler Temp. (Controlled Temp): 2.0  
 Add'l. Cooler Temp: \_\_\_\_\_

Temp should be above freezing to kill  Salmonella or other bacterial samples or to kill cooling product  No

Cooler Temp. Controlled (Yes)  No  No, water samples

Do samples originate from a jurisdiction outside the United States (A, M, or S) (International)?  Yes  No

Do samples originate from a jurisdiction other than the United States (including Guam and Puerto Rico)?  Yes  No

Item	Yes	No	Other	Priority	Comments/Remarks
Chain of Custody Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	
Sample in Approved Leak-Proof Container?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	
Shovel Held Temp. Analysis (if fish)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3	
Apply Fresh Analytical Media (if required)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	
Supply, dry ice/coolant?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5	
Control Evidence Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	
Field Collection Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	
Refrigerated Analysis (Samples Held in Cooler)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8	
Sample Labels Marked (UC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9	
Includes Date/Time/ID Analysis Matrix	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10	
Refrigeration in Cooler (if Salmonella)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11	
Temp. and Pressure?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12	
Temp. and Custody Seal Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13	

Conserved?  Yes  No  Other \_\_\_\_\_ Field Data Required?  Yes  No

Lot ID of split containers: \_\_\_\_\_

**CLIENT NOTIFICATION/RESOLUTION**

\_\_\_\_\_

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_ UNIT \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ UNIT \_\_\_\_\_



# CHAIN-OF-CUSTODY Analytical Request Document

The Chain-of-Custody for LEGAL DRUGS ONLY. All relevant tests must be completed.

<b>Section 1</b> Requestor Contact Information	<b>Section 2</b> Requestor Facility Information	<b>Section 3</b> Receiver Information	
Name: George Brown - Gas Chromatography Mass Spectrometry Address: 1800 Green Park Name of Lab:	Address: 1800 Green Park City: TX State:	Name: [Signature] Title: [Title] Address:	<b>Page: 01</b>
Phone: (512) 415-1111 Fax:	Person(s) at Requestor Facility: [Name] Requestor Contact: [Name] Requestor Reference #: 9902-021	Receiver Title: [Title] Receiver Contact: [Name] Receiver Address:	

DATE	SAMPLE ID	ANALYTE	ANALYST	LAB	TEST	METHOD	PREPARED BY							ANALYST	LAB	TEST	METHOD	REMARKS					
							NAME	TITLE	DATE	TIME	INITIALS	SIGNATURE	NAME						TITLE	DATE	TIME	INITIALS	SIGNATURE

<b>Requestor Signature:</b>	<b>Date:</b>	<i>[Signature]</i> 9-17-01	17:45	<b>Receiver Signature:</b> <i>[Signature]</i>	<b>Date:</b> 9-17-01
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# Quality Control Sample Performance Assessment



Account Mail Address Letter for 1st, 2nd, and 3rd Grades at Year 1

Year 1  
 Grade 1  
 Michigan Department of Education

Item	Sample	Score
1. Write a letter to a friend or family member.	Sample 1	100%
2. Write a letter to a friend or family member.	Sample 2	100%
3. Write a letter to a friend or family member.	Sample 3	100%
4. Write a letter to a friend or family member.	Sample 4	100%
5. Write a letter to a friend or family member.	Sample 5	100%
6. Write a letter to a friend or family member.	Sample 6	100%
7. Write a letter to a friend or family member.	Sample 7	100%
8. Write a letter to a friend or family member.	Sample 8	100%
9. Write a letter to a friend or family member.	Sample 9	100%
10. Write a letter to a friend or family member.	Sample 10	100%
11. Write a letter to a friend or family member.	Sample 11	100%
12. Write a letter to a friend or family member.	Sample 12	100%
13. Write a letter to a friend or family member.	Sample 13	100%
14. Write a letter to a friend or family member.	Sample 14	100%
15. Write a letter to a friend or family member.	Sample 15	100%
16. Write a letter to a friend or family member.	Sample 16	100%
17. Write a letter to a friend or family member.	Sample 17	100%
18. Write a letter to a friend or family member.	Sample 18	100%
19. Write a letter to a friend or family member.	Sample 19	100%
20. Write a letter to a friend or family member.	Sample 20	100%

Item	Sample	Score
1. Write a letter to a friend or family member.	Sample 1	100%
2. Write a letter to a friend or family member.	Sample 2	100%
3. Write a letter to a friend or family member.	Sample 3	100%
4. Write a letter to a friend or family member.	Sample 4	100%
5. Write a letter to a friend or family member.	Sample 5	100%
6. Write a letter to a friend or family member.	Sample 6	100%
7. Write a letter to a friend or family member.	Sample 7	100%
8. Write a letter to a friend or family member.	Sample 8	100%
9. Write a letter to a friend or family member.	Sample 9	100%
10. Write a letter to a friend or family member.	Sample 10	100%
11. Write a letter to a friend or family member.	Sample 11	100%
12. Write a letter to a friend or family member.	Sample 12	100%
13. Write a letter to a friend or family member.	Sample 13	100%
14. Write a letter to a friend or family member.	Sample 14	100%
15. Write a letter to a friend or family member.	Sample 15	100%
16. Write a letter to a friend or family member.	Sample 16	100%
17. Write a letter to a friend or family member.	Sample 17	100%
18. Write a letter to a friend or family member.	Sample 18	100%
19. Write a letter to a friend or family member.	Sample 19	100%
20. Write a letter to a friend or family member.	Sample 20	100%

Michigan Department of Education

10/10/11

# Quality Control Sample Performance Assessment

10/20/2010

Analysis Method: EPA 8210-G (Lead, Cadmium, Hexachlorocyclopentadiene)

Lab: 10/20/2010  
 Date: 10/20/2010  
 Analyst: [Name]

Sample ID	Element	Concentration (ppm)	Method
10/20/2010-001	Lead	10.5	8210-G
10/20/2010-002	Cadmium	0.05	8210-G
10/20/2010-003	Hexachlorocyclopentadiene	0.1	8210-G

Sample ID	Element	Concentration (ppm)	Method
10/20/2010-004	Lead	10.5	8210-G
10/20/2010-005	Cadmium	0.05	8210-G
10/20/2010-006	Hexachlorocyclopentadiene	0.1	8210-G

**Method 8210-G Summary**  
 This method is used for the determination of lead, cadmium, and hexachlorocyclopentadiene in water samples. The method involves the use of a graphite furnace atomic absorption spectrophotometer (GFAAS) for lead and cadmium, and a gas chromatograph-mass spectrometer (GC-MS) for hexachlorocyclopentadiene.

Sample ID	Element	Concentration (ppm)	Method
10/20/2010-007	Lead	10.5	8210-G
10/20/2010-008	Cadmium	0.05	8210-G
10/20/2010-009	Hexachlorocyclopentadiene	0.1	8210-G

Sample ID	Element	Concentration (ppm)	Method
10/20/2010-010	Lead	10.5	8210-G
10/20/2010-011	Cadmium	0.05	8210-G
10/20/2010-012	Hexachlorocyclopentadiene	0.1	8210-G

10/20/2010

### Quality Control Sample Performance Assessment

Application Manager: [Name] / [Address] / [City] / [State] / [Zip]

Sample Name	Sample ID	Sample Type	Sample Location	Sample Date	Sample Time	Sample Status
Sample 1	101	Water	Well 1	10/15/2014	10:00 AM	Pass
Sample 2	102	Water	Well 2	10/15/2014	10:15 AM	Pass
Sample 3	103	Water	Well 3	10/15/2014	10:30 AM	Pass
Sample 4	104	Water	Well 4	10/15/2014	10:45 AM	Pass
Sample 5	105	Water	Well 5	10/15/2014	11:00 AM	Pass
Sample 6	106	Water	Well 6	10/15/2014	11:15 AM	Pass
Sample 7	107	Water	Well 7	10/15/2014	11:30 AM	Pass
Sample 8	108	Water	Well 8	10/15/2014	11:45 AM	Pass
Sample 9	109	Water	Well 9	10/15/2014	12:00 PM	Pass
Sample 10	110	Water	Well 10	10/15/2014	12:15 PM	Pass
Sample 11	111	Water	Well 11	10/15/2014	12:30 PM	Pass
Sample 12	112	Water	Well 12	10/15/2014	12:45 PM	Pass
Sample 13	113	Water	Well 13	10/15/2014	1:00 PM	Pass
Sample 14	114	Water	Well 14	10/15/2014	1:15 PM	Pass
Sample 15	115	Water	Well 15	10/15/2014	1:30 PM	Pass
Sample 16	116	Water	Well 16	10/15/2014	1:45 PM	Pass
Sample 17	117	Water	Well 17	10/15/2014	2:00 PM	Pass
Sample 18	118	Water	Well 18	10/15/2014	2:15 PM	Pass
Sample 19	119	Water	Well 19	10/15/2014	2:30 PM	Pass
Sample 20	120	Water	Well 20	10/15/2014	2:45 PM	Pass
Sample 21	121	Water	Well 21	10/15/2014	3:00 PM	Pass
Sample 22	122	Water	Well 22	10/15/2014	3:15 PM	Pass
Sample 23	123	Water	Well 23	10/15/2014	3:30 PM	Pass
Sample 24	124	Water	Well 24	10/15/2014	3:45 PM	Pass
Sample 25	125	Water	Well 25	10/15/2014	4:00 PM	Pass
Sample 26	126	Water	Well 26	10/15/2014	4:15 PM	Pass
Sample 27	127	Water	Well 27	10/15/2014	4:30 PM	Pass
Sample 28	128	Water	Well 28	10/15/2014	4:45 PM	Pass
Sample 29	129	Water	Well 29	10/15/2014	5:00 PM	Pass
Sample 30	130	Water	Well 30	10/15/2014	5:15 PM	Pass
Sample 31	131	Water	Well 31	10/15/2014	5:30 PM	Pass
Sample 32	132	Water	Well 32	10/15/2014	5:45 PM	Pass
Sample 33	133	Water	Well 33	10/15/2014	6:00 PM	Pass
Sample 34	134	Water	Well 34	10/15/2014	6:15 PM	Pass
Sample 35	135	Water	Well 35	10/15/2014	6:30 PM	Pass
Sample 36	136	Water	Well 36	10/15/2014	6:45 PM	Pass
Sample 37	137	Water	Well 37	10/15/2014	7:00 PM	Pass
Sample 38	138	Water	Well 38	10/15/2014	7:15 PM	Pass
Sample 39	139	Water	Well 39	10/15/2014	7:30 PM	Pass
Sample 40	140	Water	Well 40	10/15/2014	7:45 PM	Pass
Sample 41	141	Water	Well 41	10/15/2014	8:00 PM	Pass
Sample 42	142	Water	Well 42	10/15/2014	8:15 PM	Pass
Sample 43	143	Water	Well 43	10/15/2014	8:30 PM	Pass
Sample 44	144	Water	Well 44	10/15/2014	8:45 PM	Pass
Sample 45	145	Water	Well 45	10/15/2014	9:00 PM	Pass
Sample 46	146	Water	Well 46	10/15/2014	9:15 PM	Pass
Sample 47	147	Water	Well 47	10/15/2014	9:30 PM	Pass
Sample 48	148	Water	Well 48	10/15/2014	9:45 PM	Pass
Sample 49	149	Water	Well 49	10/15/2014	10:00 PM	Pass
Sample 50	150	Water	Well 50	10/15/2014	10:15 PM	Pass
Sample 51	151	Water	Well 51	10/15/2014	10:30 PM	Pass
Sample 52	152	Water	Well 52	10/15/2014	10:45 PM	Pass
Sample 53	153	Water	Well 53	10/15/2014	11:00 PM	Pass
Sample 54	154	Water	Well 54	10/15/2014	11:15 PM	Pass
Sample 55	155	Water	Well 55	10/15/2014	11:30 PM	Pass
Sample 56	156	Water	Well 56	10/15/2014	11:45 PM	Pass
Sample 57	157	Water	Well 57	10/15/2014	12:00 AM	Pass
Sample 58	158	Water	Well 58	10/15/2014	12:15 AM	Pass
Sample 59	159	Water	Well 59	10/15/2014	12:30 AM	Pass
Sample 60	160	Water	Well 60	10/15/2014	12:45 AM	Pass
Sample 61	161	Water	Well 61	10/15/2014	1:00 AM	Pass
Sample 62	162	Water	Well 62	10/15/2014	1:15 AM	Pass
Sample 63	163	Water	Well 63	10/15/2014	1:30 AM	Pass
Sample 64	164	Water	Well 64	10/15/2014	1:45 AM	Pass
Sample 65	165	Water	Well 65	10/15/2014	2:00 AM	Pass
Sample 66	166	Water	Well 66	10/15/2014	2:15 AM	Pass
Sample 67	167	Water	Well 67	10/15/2014	2:30 AM	Pass
Sample 68	168	Water	Well 68	10/15/2014	2:45 AM	Pass
Sample 69	169	Water	Well 69	10/15/2014	3:00 AM	Pass
Sample 70	170	Water	Well 70	10/15/2014	3:15 AM	Pass
Sample 71	171	Water	Well 71	10/15/2014	3:30 AM	Pass
Sample 72	172	Water	Well 72	10/15/2014	3:45 AM	Pass
Sample 73	173	Water	Well 73	10/15/2014	4:00 AM	Pass
Sample 74	174	Water	Well 74	10/15/2014	4:15 AM	Pass
Sample 75	175	Water	Well 75	10/15/2014	4:30 AM	Pass
Sample 76	176	Water	Well 76	10/15/2014	4:45 AM	Pass
Sample 77	177	Water	Well 77	10/15/2014	5:00 AM	Pass
Sample 78	178	Water	Well 78	10/15/2014	5:15 AM	Pass
Sample 79	179	Water	Well 79	10/15/2014	5:30 AM	Pass
Sample 80	180	Water	Well 80	10/15/2014	5:45 AM	Pass
Sample 81	181	Water	Well 81	10/15/2014	6:00 AM	Pass
Sample 82	182	Water	Well 82	10/15/2014	6:15 AM	Pass
Sample 83	183	Water	Well 83	10/15/2014	6:30 AM	Pass
Sample 84	184	Water	Well 84	10/15/2014	6:45 AM	Pass
Sample 85	185	Water	Well 85	10/15/2014	7:00 AM	Pass
Sample 86	186	Water	Well 86	10/15/2014	7:15 AM	Pass
Sample 87	187	Water	Well 87	10/15/2014	7:30 AM	Pass
Sample 88	188	Water	Well 88	10/15/2014	7:45 AM	Pass
Sample 89	189	Water	Well 89	10/15/2014	8:00 AM	Pass
Sample 90	190	Water	Well 90	10/15/2014	8:15 AM	Pass
Sample 91	191	Water	Well 91	10/15/2014	8:30 AM	Pass
Sample 92	192	Water	Well 92	10/15/2014	8:45 AM	Pass
Sample 93	193	Water	Well 93	10/15/2014	9:00 AM	Pass
Sample 94	194	Water	Well 94	10/15/2014	9:15 AM	Pass
Sample 95	195	Water	Well 95	10/15/2014	9:30 AM	Pass
Sample 96	196	Water	Well 96	10/15/2014	9:45 AM	Pass
Sample 97	197	Water	Well 97	10/15/2014	10:00 AM	Pass
Sample 98	198	Water	Well 98	10/15/2014	10:15 AM	Pass
Sample 99	199	Water	Well 99	10/15/2014	10:30 AM	Pass
Sample 100	200	Water	Well 100	10/15/2014	10:45 AM	Pass



## Quality Control Sample Performance Assessment

Analytical Method Manually Controlled and Fully Automated, or Hybrid

ANALYST'S NAME: \_\_\_\_\_

DATE: \_\_\_\_\_  
 TIME: \_\_\_\_\_  
 METHOD: \_\_\_\_\_

Sample	Target	Observed
1	100	100
2	100	100
3	100	100
4	100	100
5	100	100
6	100	100
7	100	100
8	100	100
9	100	100
10	100	100

Sample	Target	Observed
1	100	100
2	100	100
3	100	100
4	100	100
5	100	100
6	100	100
7	100	100
8	100	100
9	100	100
10	100	100

Sample	Target	Observed
1	100	100
2	100	100
3	100	100
4	100	100
5	100	100
6	100	100
7	100	100
8	100	100
9	100	100
10	100	100

Sample	Target	Observed
1	100	100
2	100	100
3	100	100
4	100	100
5	100	100
6	100	100
7	100	100
8	100	100
9	100	100
10	100	100

Sample	Target	Observed
1	100	100
2	100	100
3	100	100
4	100	100
5	100	100
6	100	100
7	100	100
8	100	100
9	100	100
10	100	100

ANALYST'S SIGNATURE: \_\_\_\_\_

ANALYST'S NAME: \_\_\_\_\_  
 DATE: \_\_\_\_\_

LABORATORY: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_





### Quality Control Sample Performance Assessment

Project Name: **Water Meter Accuracy Assessment of Meter**

Parameter	Unit	Value	Notes
Flow Rate	gpm	1.5	
Pressure	psi	45	
Temperature	°F	65	
Accuracy	%	100	
Flow Direction			
Flow Rate	gpm	1.5	
Pressure	psi	45	
Temperature	°F	65	
Accuracy	%	100	
Flow Direction			
Flow Rate	gpm	1.5	
Pressure	psi	45	
Temperature	°F	65	
Accuracy	%	100	
Flow Direction			

Parameter	Unit	Value	Notes
Flow Rate	gpm	1.5	
Pressure	psi	45	
Temperature	°F	65	
Accuracy	%	100	
Flow Direction			
Flow Rate	gpm	1.5	
Pressure	psi	45	
Temperature	°F	65	
Accuracy	%	100	
Flow Direction			
Flow Rate	gpm	1.5	
Pressure	psi	45	
Temperature	°F	65	
Accuracy	%	100	
Flow Direction			

Flow Rate: 1.5 gpm  
 Pressure: 45 psi  
 Temperature: 65 °F  
 Accuracy: 100%  
 Flow Direction: [unclear]

Flow Rate: 1.5 gpm  
 Pressure: 45 psi  
 Temperature: 65 °F  
 Accuracy: 100%  
 Flow Direction: [unclear]

10/10/2010 10:10:10 AM

10/10/2010 10:10:10 AM



# Quality Control Sample Performance Assessment

Analysis Method: Manual; Operator: AP; Facility: Hudson County; Date: 01/01/2010

Lab: Pacific  
 Sample No: 100  
 Operator: AP  
 Analyst: AP

*AP*  
 AP

Sample Name	Specs	Actual	Pass/Fail
100	100	100	Pass
101	100	100	Pass
102	100	100	Pass
103	100	100	Pass
104	100	100	Pass
105	100	100	Pass
106	100	100	Pass
107	100	100	Pass
108	100	100	Pass
109	100	100	Pass
110	100	100	Pass
111	100	100	Pass
112	100	100	Pass
113	100	100	Pass
114	100	100	Pass
115	100	100	Pass
116	100	100	Pass
117	100	100	Pass
118	100	100	Pass
119	100	100	Pass
120	100	100	Pass

Sample Name	Specs	Actual	Pass/Fail
100	100	100	Pass
101	100	100	Pass
102	100	100	Pass
103	100	100	Pass
104	100	100	Pass
105	100	100	Pass
106	100	100	Pass
107	100	100	Pass
108	100	100	Pass
109	100	100	Pass
110	100	100	Pass
111	100	100	Pass
112	100	100	Pass
113	100	100	Pass
114	100	100	Pass
115	100	100	Pass
116	100	100	Pass
117	100	100	Pass
118	100	100	Pass
119	100	100	Pass
120	100	100	Pass

Sample Name	Specs	Actual	Pass/Fail
100	100	100	Pass
101	100	100	Pass
102	100	100	Pass
103	100	100	Pass
104	100	100	Pass
105	100	100	Pass
106	100	100	Pass
107	100	100	Pass
108	100	100	Pass
109	100	100	Pass
110	100	100	Pass
111	100	100	Pass
112	100	100	Pass
113	100	100	Pass
114	100	100	Pass
115	100	100	Pass
116	100	100	Pass
117	100	100	Pass
118	100	100	Pass
119	100	100	Pass
120	100	100	Pass

Sample Name	Specs	Actual	Pass/Fail
100	100	100	Pass
101	100	100	Pass
102	100	100	Pass
103	100	100	Pass
104	100	100	Pass
105	100	100	Pass
106	100	100	Pass
107	100	100	Pass
108	100	100	Pass
109	100	100	Pass
110	100	100	Pass
111	100	100	Pass
112	100	100	Pass
113	100	100	Pass
114	100	100	Pass
115	100	100	Pass
116	100	100	Pass
117	100	100	Pass
118	100	100	Pass
119	100	100	Pass
120	100	100	Pass

Sample Name	Specs	Actual	Pass/Fail
100	100	100	Pass
101	100	100	Pass
102	100	100	Pass
103	100	100	Pass
104	100	100	Pass
105	100	100	Pass
106	100	100	Pass
107	100	100	Pass
108	100	100	Pass
109	100	100	Pass
110	100	100	Pass
111	100	100	Pass
112	100	100	Pass
113	100	100	Pass
114	100	100	Pass
115	100	100	Pass
116	100	100	Pass
117	100	100	Pass
118	100	100	Pass
119	100	100	Pass
120	100	100	Pass

*AP*

# Quality Control Sample Performance Assessment



Additional Manual Entries for All Fields Highlighted in Yellow.

TDU: 0000  
 ACP: 0000  
 Type: 0000  
 WFO: 0000  
 WFO: 0000

<p>1.0 Sample Performance</p> <p>1.1 Sample Performance</p> <p>1.2 Sample Performance</p> <p>1.3 Sample Performance</p> <p>1.4 Sample Performance</p> <p>1.5 Sample Performance</p> <p>1.6 Sample Performance</p> <p>1.7 Sample Performance</p> <p>1.8 Sample Performance</p> <p>1.9 Sample Performance</p> <p>2.0 Sample Performance</p>	<p>1.0 Sample Performance</p> <p>1.1 Sample Performance</p> <p>1.2 Sample Performance</p> <p>1.3 Sample Performance</p> <p>1.4 Sample Performance</p> <p>1.5 Sample Performance</p> <p>1.6 Sample Performance</p> <p>1.7 Sample Performance</p> <p>1.8 Sample Performance</p> <p>1.9 Sample Performance</p> <p>2.0 Sample Performance</p>
---	---

Sample ID	Sample Type	Sample Location	Sample Date	Sample Time	Sample Status	Sample Result	Sample Error	Sample Comment
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

<p>1.0 Sample Performance</p> <p>1.1 Sample Performance</p> <p>1.2 Sample Performance</p> <p>1.3 Sample Performance</p> <p>1.4 Sample Performance</p> <p>1.5 Sample Performance</p> <p>1.6 Sample Performance</p> <p>1.7 Sample Performance</p> <p>1.8 Sample Performance</p> <p>1.9 Sample Performance</p> <p>2.0 Sample Performance</p>	<p>1.0 Sample Performance</p> <p>1.1 Sample Performance</p> <p>1.2 Sample Performance</p> <p>1.3 Sample Performance</p> <p>1.4 Sample Performance</p> <p>1.5 Sample Performance</p> <p>1.6 Sample Performance</p> <p>1.7 Sample Performance</p> <p>1.8 Sample Performance</p> <p>1.9 Sample Performance</p> <p>2.0 Sample Performance</p>
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Sample ID	Sample Type	Sample Location	Sample Date	Sample Time	Sample Status	Sample Result	Sample Error	Sample Comment
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

<p>1.0 Sample Performance</p> <p>1.1 Sample Performance</p> <p>1.2 Sample Performance</p> <p>1.3 Sample Performance</p> <p>1.4 Sample Performance</p> <p>1.5 Sample Performance</p> <p>1.6 Sample Performance</p> <p>1.7 Sample Performance</p> <p>1.8 Sample Performance</p> <p>1.9 Sample Performance</p> <p>2.0 Sample Performance</p>	<p>1.0 Sample Performance</p> <p>1.1 Sample Performance</p> <p>1.2 Sample Performance</p> <p>1.3 Sample Performance</p> <p>1.4 Sample Performance</p> <p>1.5 Sample Performance</p> <p>1.6 Sample Performance</p> <p>1.7 Sample Performance</p> <p>1.8 Sample Performance</p> <p>1.9 Sample Performance</p> <p>2.0 Sample Performance</p>
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(1.0) (1.1)

### Quality Control Sample Performance Assessment



Date: 11/11/11  
 Station: 101  
 Sample Type: 101  
 Sample ID: 101

Additional Methods used in this assessment: None

**Method Name**

Method Name	101
Method ID	101
Method Description	101
Method Reference	101
Method Status	101

**Method Name**

Method Name	101
Method ID	101
Method Description	101
Method Reference	101
Method Status	101

**Method Name**

Method Name	101
Method ID	101
Method Description	101
Method Reference	101
Method Status	101

Method Name	101
Method ID	101
Method Description	101
Method Reference	101
Method Status	101

Method Name	101
Method ID	101
Method Description	101
Method Reference	101
Method Status	101

Method Name: 101, Method ID: 101, Method Description: 101, Method Reference: 101, Method Status: 101

Comment:

101



October 22, 2021

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

RE: Project: MCDONOUGH PIEZOMETERS  
Pace Project No.: 92560139

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 09, 2021 and September 10, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

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

Enclosures

cc: Stephen Benda  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power  
Kristen Jurinko  
J. Shelby Mobley  
Charles Norton, Southern Company  
Ms. Lauren Petty, Southern Company  
Dawn Prell, Golder Associates Inc.  
Tim Richards, Golder Associates - Atlanta



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MCDONOUGH PIEZOMETERS

Pace Project No.: 92560139

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### **Pace Analytical Services Charlotte**

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Virginia/VELAP Certification #: 460221

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### **Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804  
Florida/NELAP Certification #: E87648  
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40  
South Carolina Certification #: 99030001  
Virginia/VELAP Certification #: 460222

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### **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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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: MCDONOUGH PIEZOMETERS  
Pace Project No.: 92560139

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92560139001	B-117D	Water	09/08/21 16:15	09/09/21 08:45
92560139002	B-118	Water	09/08/21 13:35	09/09/21 08:45
92560139003	B-119D	Water	09/08/21 15:17	09/09/21 08:45
92560139004	B-116D	Water	09/09/21 13:53	09/10/21 17:40

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH PIEZOMETERS

Pace Project No.: 92560139

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
92560139001	B-117D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560139002	B-118	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560139003	B-119D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560139004	B-116D	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH PIEZOMETERS  
 Pace Project No.: 92560139

**Sample: B-117D**      **Lab ID: 92560139001**      Collected: 09/08/21 16:15      Received: 09/09/21 08:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**  
 Analytical Method:  
 Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/09/21 10:18		
pH	<b>6.00</b>	Std. Units			1		09/09/21 10:18		

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

Calcium	<b>11.3</b>	mg/L	1.0	0.12	1	09/11/21 09:00	09/13/21 16:48	7440-70-2	
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**6020 MET ICPMS**  
 Analytical Method: EPA 6020B      Preparation Method: EPA 3005A  
 Pace Analytical Services - Peachtree Corners, GA

Antimony	ND	mg/L	0.0030	0.00078	1	09/11/21 09:00	09/14/21 19:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/11/21 09:00	09/14/21 19:14	7440-38-2	
Barium	<b>0.048</b>	mg/L	0.0050	0.00067	1	09/11/21 09:00	09/14/21 19:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/11/21 09:00	09/14/21 19:14	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/11/21 09:00	09/14/21 19:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/11/21 09:00	09/14/21 19:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/11/21 09:00	09/14/21 19:14	7440-47-3	
Cobalt	<b>0.00043J</b>	mg/L	0.0050	0.00039	1	09/11/21 09:00	09/14/21 19:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/11/21 09:00	09/14/21 19:14	7439-92-1	
Lithium	<b>0.0069J</b>	mg/L	0.030	0.00073	1	09/11/21 09:00	09/14/21 19:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/11/21 09:00	09/14/21 19:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/11/21 09:00	09/14/21 19:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/11/21 09:00	09/14/21 19:14	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	0.000078	1	09/21/21 07:00	09/21/21 11:48	7439-97-6	
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**2540C Total Dissolved Solids**  
 Analytical Method: SM 2540C-2011  
 Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>152</b>	mg/L	10.0	10.0	1		09/15/21 18:56		
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**300.0 IC Anions 28 Days**  
 Analytical Method: EPA 300.0 Rev 2.1 1993  
 Pace Analytical Services - Asheville

Chloride	<b>6.0</b>	mg/L	1.0	0.60	1		09/13/21 00:45	16887-00-6	
Fluoride	<b>0.058J</b>	mg/L	0.10	0.050	1		09/13/21 00:45	16984-48-8	
Sulfate	<b>31.1</b>	mg/L	1.0	0.50	1		09/13/21 00:45	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH PIEZOMETERS  
 Pace Project No.: 92560139

Sample: B-118		Lab ID: 92560139002		Collected: 09/08/21 13:35		Received: 09/09/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		09/09/21 10:18		
pH	<b>6.01</b>	Std. Units			1		09/09/21 10:18		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>5.0</b>	mg/L	1.0	0.12	1	09/11/21 09:00	09/13/21 16:53	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/11/21 09:00	09/14/21 19:19	7440-36-0	
Arsenic	<b>0.0011J</b>	mg/L	0.0050	0.0011	1	09/11/21 09:00	09/14/21 19:19	7440-38-2	
Barium	<b>0.021</b>	mg/L	0.0050	0.00067	1	09/11/21 09:00	09/14/21 19:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/11/21 09:00	09/14/21 19:19	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/11/21 09:00	09/14/21 19:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/11/21 09:00	09/14/21 19:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/11/21 09:00	09/14/21 19:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/11/21 09:00	09/14/21 19:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/11/21 09:00	09/14/21 19:19	7439-92-1	
Lithium	<b>0.0028J</b>	mg/L	0.030	0.00073	1	09/11/21 09:00	09/14/21 19:19	7439-93-2	
Molybdenum	<b>0.0056J</b>	mg/L	0.010	0.00074	1	09/11/21 09:00	09/14/21 19:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/11/21 09:00	09/14/21 19:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/11/21 09:00	09/14/21 19:19	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	09/21/21 07:00	09/21/21 11:51	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>65.0</b>	mg/L	10.0	10.0	1		09/15/21 18:56		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>3.0</b>	mg/L	1.0	0.60	1		09/13/21 01:00	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/13/21 01:00	16984-48-8	
Sulfate	<b>0.99J</b>	mg/L	1.0	0.50	1		09/13/21 01:00	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH PIEZOMETERS

Pace Project No.: 92560139

**Sample: B-119D**      **Lab ID: 92560139003**      Collected: 09/08/21 15:17      Received: 09/09/21 08:45      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/09/21 10:19		
pH	<b>6.88</b>	Std. Units			1		09/09/21 10:19		

**6010D ATL ICP**

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

Calcium	<b>20.2</b>	mg/L	1.0	0.12	1	09/11/21 09:00	09/13/21 16:57	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	<b>0.00087J</b>	mg/L	0.0030	0.00078	1	09/11/21 09:00	09/14/21 19:25	7440-36-0	
Arsenic	<b>0.0014J</b>	mg/L	0.0050	0.0011	1	09/11/21 09:00	09/14/21 19:25	7440-38-2	
Barium	<b>0.0080</b>	mg/L	0.0050	0.00067	1	09/11/21 09:00	09/14/21 19:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/11/21 09:00	09/14/21 19:25	7440-41-7	
Boron	<b>0.018J</b>	mg/L	0.040	0.0086	1	09/11/21 09:00	09/14/21 19:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/11/21 09:00	09/14/21 19:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/11/21 09:00	09/14/21 19:25	7440-47-3	
Cobalt	<b>0.00077J</b>	mg/L	0.0050	0.00039	1	09/11/21 09:00	09/14/21 19:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/11/21 09:00	09/14/21 19:25	7439-92-1	
Lithium	<b>0.0028J</b>	mg/L	0.030	0.00073	1	09/11/21 09:00	09/14/21 19:25	7439-93-2	
Molybdenum	<b>0.022</b>	mg/L	0.010	0.00074	1	09/11/21 09:00	09/14/21 19:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/11/21 09:00	09/14/21 19:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/11/21 09:00	09/14/21 19:25	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.000078	1	09/21/21 07:00	09/21/21 11:59	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>191</b>	mg/L	10.0	10.0	1		09/15/21 18:56		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>7.5</b>	mg/L	1.0	0.60	1		09/13/21 01:16	16887-00-6	
Fluoride	<b>0.16</b>	mg/L	0.10	0.050	1		09/13/21 01:16	16984-48-8	
Sulfate	<b>76.2</b>	mg/L	1.0	0.50	1		09/13/21 01:16	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH PIEZOMETERS

Pace Project No.: 92560139

**Sample: B-116D**      **Lab ID: 92560139004**      Collected: 09/09/21 13:53      Received: 09/10/21 17:40      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/13/21 08:34		
pH	<b>6.02</b>	Std. Units			1		09/13/21 08:34		

**6010D ATL ICP**

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

Calcium	<b>9.9</b>	mg/L	1.0	0.12	1	09/17/21 11:09	09/17/21 19:05	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/17/21 11:11	09/17/21 16:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/17/21 11:11	09/17/21 16:17	7440-38-2	
Barium	<b>0.017</b>	mg/L	0.0050	0.00067	1	09/17/21 11:11	09/17/21 16:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/17/21 11:11	09/17/21 16:17	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/17/21 11:11	09/17/21 16:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/17/21 11:11	09/17/21 16:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/17/21 11:11	09/17/21 16:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/17/21 11:11	09/17/21 16:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/17/21 11:11	09/17/21 16:17	7439-92-1	
Lithium	<b>0.0055J</b>	mg/L	0.030	0.00073	1	09/17/21 11:11	09/17/21 16:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/17/21 11:11	09/17/21 16:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/17/21 11:11	09/17/21 16:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/17/21 11:11	09/17/21 16:17	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.000078	1	09/21/21 07:00	09/21/21 12:01	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>93.0</b>	mg/L	10.0	10.0	1		09/15/21 18:58		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>2.7</b>	mg/L	1.0	0.60	1		09/15/21 06:23	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 06:23	16984-48-8	
Sulfate	<b>0.73J</b>	mg/L	1.0	0.50	1		09/15/21 06:23	14808-79-8	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH PIEZOMETERS  
 Pace Project No.: 92560139

QC Batch: 646610 Analysis Method: EPA 6010D  
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92560139001, 92560139002, 92560139003

METHOD BLANK: 3391819 Matrix: Water  
 Associated Lab Samples: 92560139001, 92560139002, 92560139003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/13/21 14:48	

LABORATORY CONTROL SAMPLE: 3391820

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3391821 3391822

Parameter	Units	92558259010		3391821		3391822		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Calcium	mg/L	1.4	1	1	1	2.5	2.5	106	109	75-125	1	20

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**QUALITY CONTROL DATA**

Project: MCDONOUGH PIEZOMETERS

Pace Project No.: 92560139

QC Batch: 648035

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560139004

METHOD BLANK: 3398813

Matrix: Water

Associated Lab Samples: 92560139004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/17/21 18:21	

LABORATORY CONTROL SAMPLE: 3398814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3398815 3398816

Parameter	Units	3398815		3398816		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	18.3	1	1	18.8	19.3	57	102	75-125	2	20 M1

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**QUALITY CONTROL DATA**

Project: MCDONOUGH PIEZOMETERS  
 Pace Project No.: 92560139

QC Batch: 646612 Analysis Method: EPA 6020B  
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92560139001, 92560139002, 92560139003

METHOD BLANK: 3391827 Matrix: Water  
 Associated Lab Samples: 92560139001, 92560139002, 92560139003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/14/21 17:25	
Arsenic	mg/L	ND	0.0050	0.0011	09/14/21 17:25	
Barium	mg/L	ND	0.0050	0.00067	09/14/21 17:25	
Beryllium	mg/L	ND	0.00050	0.000054	09/14/21 17:25	
Boron	mg/L	ND	0.040	0.0086	09/14/21 17:25	
Cadmium	mg/L	ND	0.00050	0.00011	09/14/21 17:25	
Chromium	mg/L	ND	0.0050	0.0011	09/14/21 17:25	
Cobalt	mg/L	ND	0.0050	0.00039	09/14/21 17:25	
Lead	mg/L	ND	0.0010	0.00089	09/14/21 17:25	
Lithium	mg/L	ND	0.030	0.00073	09/14/21 17:25	
Molybdenum	mg/L	ND	0.010	0.00074	09/14/21 17:25	
Selenium	mg/L	ND	0.0050	0.0014	09/14/21 17:25	
Thallium	mg/L	ND	0.0010	0.00018	09/14/21 17:25	

LABORATORY CONTROL SAMPLE: 3391828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.099	99	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.094	94	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.099	99	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.094	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3391829 3391830

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92559417001	Result	Spike Conc.	Spike Conc.								
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20		
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	100	98	75-125	1	20		

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**QUALITY CONTROL DATA**

Project: MCDONOUGH PIEZOMETERS

Pace Project No.: 92560139

Parameter	Units	3391829		3391830		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Barium	mg/L	0.028	0.1	0.1	0.13	0.13	98	99	75-125	0	20		
Beryllium	mg/L	0.00016J	0.1	0.1	0.097	0.099	97	98	75-125	2	20		
Boron	mg/L	1.2	1	1	2.3	2.5	92	116	75-125	10	20		
Cadmium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	0	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.098	101	98	75-125	4	20		
Lead	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20		
Lithium	mg/L	0.0014J	0.1	0.1	0.099	0.10	98	102	75-125	4	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	1	20		
Selenium	mg/L	0.021	0.1	0.1	0.12	0.12	100	101	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	2	20		

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**QUALITY CONTROL DATA**

Project: MCDONOUGH PIEZOMETERS

Pace Project No.: 92560139

QC Batch: 648036

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560139004

METHOD BLANK: 3398822

Matrix: Water

Associated Lab Samples: 92560139004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/17/21 15:37	
Arsenic	mg/L	ND	0.0050	0.0011	09/17/21 15:37	
Barium	mg/L	ND	0.0050	0.00067	09/17/21 15:37	
Beryllium	mg/L	ND	0.00050	0.000054	09/17/21 15:37	
Boron	mg/L	ND	0.040	0.0086	09/17/21 15:37	
Cadmium	mg/L	ND	0.00050	0.00011	09/17/21 15:37	
Chromium	mg/L	ND	0.0050	0.0011	09/17/21 15:37	
Cobalt	mg/L	ND	0.0050	0.00039	09/17/21 15:37	
Lead	mg/L	ND	0.0010	0.00089	09/17/21 15:37	
Lithium	mg/L	ND	0.030	0.00073	09/17/21 15:37	
Molybdenum	mg/L	ND	0.010	0.00074	09/17/21 15:37	
Selenium	mg/L	ND	0.0050	0.0014	09/17/21 15:37	
Thallium	mg/L	ND	0.0010	0.00018	09/17/21 15:37	

LABORATORY CONTROL SAMPLE: 3398823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.097	97	80-120	
Boron	mg/L	1	1.0	101	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	0.10	101	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.094	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3398824 3398825

Parameter	Units	92560138002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	104	103	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	100	98	75-125	2	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH PIEZOMETERS

Pace Project No.: 92560139

Parameter	Units	3398824		3398825		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Barium	mg/L	0.099	0.1	0.1	0.21	0.20	114	102	75-125	6	20		
Beryllium	mg/L	ND	0.1	0.1	0.091	0.096	91	96	75-125	5	20		
Boron	mg/L	0.065	1	1	0.97	1.0	91	97	75-125	6	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	103	100	75-125	3	20		
Cobalt	mg/L	0.0064	0.1	0.1	0.11	0.10	105	98	75-125	7	20		
Lead	mg/L	ND	0.1	0.1	0.099	0.099	99	98	75-125	0	20		
Lithium	mg/L	0.0091J	0.1	0.1	0.10	0.11	94	99	75-125	5	20		
Molybdenum	mg/L	0.025	0.1	0.1	0.13	0.12	101	99	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.093	0.095	92	95	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20		

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**QUALITY CONTROL DATA**

Project: MCDONOUGH PIEZOMETERS

Pace Project No.: 92560139

QC Batch: 648334	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560139001, 92560139002, 92560139003, 92560139004

METHOD BLANK: 3400299 Matrix: Water  
 Associated Lab Samples: 92560139001, 92560139002, 92560139003, 92560139004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/21/21 10:38	

LABORATORY CONTROL SAMPLE: 3400300

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3400301 3400302

Parameter	Units	3400301		3400302		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560635001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0023	92	91	75-125	2	20

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**QUALITY CONTROL DATA**

Project: MCDONOUGH PIEZOMETERS  
 Pace Project No.: 92560139

QC Batch: 647027 Analysis Method: SM 2540C-2011  
 QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92560139001, 92560139002, 92560139003, 92560139004

METHOD BLANK: 3393790 Matrix: Water  
 Associated Lab Samples: 92560139001, 92560139002, 92560139003, 92560139004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/15/21 18:56	

LABORATORY CONTROL SAMPLE: 3393791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	390	98	90-111	

SAMPLE DUPLICATE: 3393792

Parameter	Units	92560138001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	75.0	78.0	4	10	

SAMPLE DUPLICATE: 3393793

Parameter	Units	92560281005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	133	139	4	10	

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### QUALITY CONTROL DATA

Project: MCDONOUGH PIEZOMETERS

Pace Project No.: 92560139

QC Batch:	646662	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92560139001, 92560139002, 92560139003

METHOD BLANK: 3391993 Matrix: Water  
 Associated Lab Samples: 92560139001, 92560139002, 92560139003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/12/21 19:51	
Fluoride	mg/L	ND	0.10	0.050	09/12/21 19:51	
Sulfate	mg/L	ND	1.0	0.50	09/12/21 19:51	

LABORATORY CONTROL SAMPLE: 3391994

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	51.4	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3391995 3391996

Parameter	Units	92560743001		3391995		3391996		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Chloride	mg/L	298	298	50	50	346	344	96	91	90-110	1	10
Fluoride	mg/L	13.7	13.7	2.5	2.5	21.8	21.5	326	310	90-110	2	10 M1
Sulfate	mg/L	702	702	50	50	717	721	28	36	90-110	1	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3391997 3391998

Parameter	Units	92560743011		3391997		3391998		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Chloride	mg/L	66.1	66.1	50	50	144	145	156	158	90-110	1	10 M1
Fluoride	mg/L	3.4	3.4	2.5	2.5	1.4	1.4	-81	-79	90-110	4	10 M1
Sulfate	mg/L	82.0	82.0	50	50	131	131	98	98	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

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**QUALITY CONTROL DATA**

Project: MCDONOUGH PIEZOMETERS

Pace Project No.: 92560139

QC Batch: 647162	Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92560139004

METHOD BLANK: 3394748 Matrix: Water

Associated Lab Samples: 92560139004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/14/21 22:53	
Fluoride	mg/L	ND	0.10	0.050	09/14/21 22:53	
Sulfate	mg/L	ND	1.0	0.50	09/14/21 22:53	

LABORATORY CONTROL SAMPLE: 3394749

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	2.4	97	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394750 3394751

Parameter	Units	92560938001		MS		MSD		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	3.0	50	50	58.4	61.9	111	118	90-110	6	10	M1	
Fluoride	mg/L	0.091J	2.5	2.5	3.4	3.5	131	134	90-110	2	10	M1	
Sulfate	mg/L	33.4	50	50	88.5	91.8	110	117	90-110	4	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394752 3394753

Parameter	Units	92560676003		MS		MSD		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	146	50	50	196	198	99	105	90-110	1	10		
Fluoride	mg/L	0.29	2.5	2.5	4.9	4.8	184	179	90-110	2	10	M1	
Sulfate	mg/L	140	50	50	193	195	105	109	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394754 3394755

Parameter	Units	92560676001		MS		MSD		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	4.9	50	50	62.8	64.2	116	119	90-110	2	10	M1	
Fluoride	mg/L	0.40	2.5	2.5	3.5	3.6	124	127	90-110	2	10	M1	
Sulfate	mg/L	3.8	50	50	62.4	63.7	117	120	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**

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## QUALIFIERS

Project: MCDONOUGH PIEZOMETERS

Pace Project No.: 92560139

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### 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.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: MCDONOUGH PIEZOMETERS  
 Pace Project No.: 92560139

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560139001	B-117D				
92560139002	B-118				
92560139003	B-119D				
92560139004	B-116D				
92560139001	B-117D	EPA 3010A	646610	EPA 6010D	646635
92560139002	B-118	EPA 3010A	646610	EPA 6010D	646635
92560139003	B-119D	EPA 3010A	646610	EPA 6010D	646635
92560139004	B-116D	EPA 3010A	648035	EPA 6010D	648116
92560139001	B-117D	EPA 3005A	646612	EPA 6020B	646637
92560139002	B-118	EPA 3005A	646612	EPA 6020B	646637
92560139003	B-119D	EPA 3005A	646612	EPA 6020B	646637
92560139004	B-116D	EPA 3005A	648036	EPA 6020B	648158
92560139001	B-117D	EPA 7470A	648334	EPA 7470A	648431
92560139002	B-118	EPA 7470A	648334	EPA 7470A	648431
92560139003	B-119D	EPA 7470A	648334	EPA 7470A	648431
92560139004	B-116D	EPA 7470A	648334	EPA 7470A	648431
92560139001	B-117D	SM 2540C-2011	647027		
92560139002	B-118	SM 2540C-2011	647027		
92560139003	B-119D	SM 2540C-2011	647027		
92560139004	B-116D	SM 2540C-2011	647027		
92560139001	B-117D	EPA 300.0 Rev 2.1 1993	646662		
92560139002	B-118	EPA 300.0 Rev 2.1 1993	646662		
92560139003	B-119D	EPA 300.0 Rev 2.1 1993	646662		
92560139004	B-116D	EPA 300.0 Rev 2.1 1993	647162		

**REPORT OF LABORATORY ANALYSIS**

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Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

*GA Lower*

Project #:

WO# : 92560139

Carrier:  
 Commercial

Fed Ex  UPS  USPS  Client  
 Pace  Other



Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: *9/14/21 CW*

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Thermometer:  N/A  In Use ID: *214* Type of Ice:  Wet  Blue  None

Yes  No  N/A

Cooler Temp: *2.6* Correction Factor: *0.1*  
Add/Subtract (+/-)

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): *2.5*

USDA Regulated Soil (  N/A, water sample)

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

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

Yes  No

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCUR Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_



Document Name:  
 Sample Condition Upon Receipt(SCUR)  
 Document No.:  
 F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020  
 Page 2 of 2  
 Issuing Authority:  
 Face Carolina Quality Office

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

Project: **WO# : 92560139**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRQ/8025 (water) DOC, UHG

PH: NMG Due Date: 08/23/21

CLIENT: CR-CR Power

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

Result	BP40-225 ml, Plastic Unpreserved (N/A) (C1)	BP40-250 ml, Plastic Unpreserved (N/A)	BP40-500 ml, Plastic Unpreserved (N/A)	BP41-1 liter Plastic Unpreserved (N/A)	BP45-225 ml, Plastic HDPE (pH < 12) (C1)	BP45-250 ml, Plastic HDPE (pH < 2)	BP45-225 ml, Plastic 2% Acetone & NaOH (pH)	BP45-225 ml, Plastic NaOH (pH < 12) (C1)	WSPU-1000-meshed Glass jar Unpreserved	AD20-1 liter Amber Unpreserved (N/A) (C1)	AD20-1 liter Amber HD (pH < 2)	AD20-250 ml, Amber Unpreserved (N/A) (C1)	AD20-1 liter Amber HDPE (pH < 2)	AD20-250 ml, Amber HDPE (pH < 2)	AD20(2000A)-250 ml, Amber HDPE (N/A)(C1)	D020-40 ml, VOA HD (N/A)	V020-40 ml, VOA HDPE (N/A)	V020-40 ml, VOA Lrp (N/A)	D020-40 ml, VOA HDPE (N/A)	V040 (8 vials per lot) (N/A)	V100 (2 vials per lot) (N/A)	BP20-225 ml, Sterile Plastic (N/A - 160)	BP20-250 ml, Sterile Plastic (N/A - 160)	BP20-250 ml, Plastic (N/A) (B.3-B.7)	AD00-250 ml, Amber Unpreserved vials (N/A)	V050-20 ml, Sterilization vials (N/A)	D020-40 ml, Amber Unpreserved vials (N/A)		
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 Division of Environment and Natural Resources (i.e. Out of field, incorrect preservative, out of temp, incorrect containers).



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

Page: 1 of 1

<b>Section 1</b>		<b>Section 2</b>		<b>Section 3</b>	
Request Number	Request Date	Request Number	Request Date	Request Number	Request Date
Request Type - (See Attachment)	Request To - (See Attachment)	Request Number	Request Date	Request Number	Request Date
Requester Name	Requester Title	Requester Name	Requester Title	Requester Name	Requester Title
Requester Address	Requester Phone	Requester Address	Requester Phone	Requester Address	Requester Phone
Requester Email	Requester Fax	Requester Email	Requester Fax	Requester Email	Requester Fax
Requester Signature	Requester Signature	Requester Signature	Requester Signature	Requester Signature	Requester Signature
Requester Date	Requester Date	Requester Date	Requester Date	Requester Date	Requester Date
Requester State	Requester State	Requester State	Requester State	Requester State	Requester State
Requester Zip	Requester Zip	Requester Zip	Requester Zip	Requester Zip	Requester Zip
Requester City	Requester City	Requester City	Requester City	Requester City	Requester City
Requester County	Requester County	Requester County	Requester County	Requester County	Requester County
Requester Country	Requester Country	Requester Country	Requester Country	Requester Country	Requester Country
Requester State/Zip	Requester State/Zip	Requester State/Zip	Requester State/Zip	Requester State/Zip	Requester State/Zip

SAMPLE ID	DATE RECEIVED	DATE ANALYZED	ANALYSIS METHOD	PRESERVATION		ANALYSIS TEST			REMARKS/COMMENTS
				INITIALS	DATE	TEST	RESULT	UNIT	
0-1100	09/11/01	09/11/01	GC/MS	MS	09/11/01	GC/MS	0.00	mg/L	
0-1101	09/11/01	09/11/01	GC/MS	MS	09/11/01	GC/MS	0.00	mg/L	
0-1102	09/11/01	09/11/01	GC/MS	MS	09/11/01	GC/MS	0.00	mg/L	
0-1103	09/11/01	09/11/01	GC/MS	MS	09/11/01	GC/MS	0.00	mg/L	
0-1104	09/11/01	09/11/01	GC/MS	MS	09/11/01	GC/MS	0.00	mg/L	
0-1105	09/11/01	09/11/01	GC/MS	MS	09/11/01	GC/MS	0.00	mg/L	
0-1106	09/11/01	09/11/01	GC/MS	MS	09/11/01	GC/MS	0.00	mg/L	
0-1107	09/11/01	09/11/01	GC/MS	MS	09/11/01	GC/MS	0.00	mg/L	
0-1108	09/11/01	09/11/01	GC/MS	MS	09/11/01	GC/MS	0.00	mg/L	
0-1109	09/11/01	09/11/01	GC/MS	MS	09/11/01	GC/MS	0.00	mg/L	
0-1110	09/11/01	09/11/01	GC/MS	MS	09/11/01	GC/MS	0.00	mg/L	

ANALYST: SP... DATE: 9/11/01

LABORATORY: SP... ADDRESS: SP...

PHONE: SP... FAX: SP...

EMAIL: SP... WEBSITE: SP...



Document Name  
Sample Collection Upon Receipt (SCUR)  
 Document No  
4-2000 (1-2015 rev)

Document Revised: October 18, 2010  
 Page 1 of 2  
 Issuing Authority  
 Pace Analytical, Inc. (PAI)

Lab(s) to be receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Setup & Conditions  
 (Your choice of)

Client Name:

Carroll's Food Mart

Project #

[Empty box for Project #]

Owner:  
 Commercial

Fed RL  CAS  CAS  Other

Retail

Unusually Soil Present?

Yes  No  Soil label?  Yes  No

Order/Label/Specimen/Inventory Number: 101-107181-2

Packing Material

Bubble wrap  Styrofoam  None

Biological Hazard Present

Yes  No  N/A

Temperature

Ambient

2-33°

Type of Ice

Dry  Wet  None

Cooler Temp

3-4

Correction Factor:  
 Applicable?  Yes  No

2-33°

Temp should be above freezing to 6°C

Samples out of temperature. Samples can be freezing process not output

Cooler Temp Corrected (°C):

USDA's Regulated Soil?  Yes  No

Do samples originate in a jurisdiction with a different State, GA, NY, or DC (check reason):

Yes  No

Do samples originate from a foreign jurisdiction (check reason):

including Hawaii and Puerto Rico?  Yes  No

Comments/Discrepancy

Amount of Samples Present?

Yes  No  N/A

Samples delivered in "Hot" boxes?

Yes  No  N/A

Boxes held Temp. analysis (Y/N/A)?

Yes  No  N/A

Each Turn around Time discrepancy?

Yes  No  N/A

Staff are trained?

Yes  No  N/A

Correct Container Used?

Yes  No  N/A

Proper Container Used?

Yes  No  N/A

Correct Seal Used?

Yes  No  N/A

Discovery analysis. Samples Temp. if correct?

Yes  No  N/A

Sample Label Number (CN)?

Yes  No  N/A

includes Date, Time, ID, Analyst, & Matrix

Injection in vial (Y/N/A)?

Yes  No  N/A

Top Seal Present?

Yes  No  N/A

Top Seal (includes both Present)?

Yes  No  N/A

Total of up to containers

Client responsible for no sample

Person contacted

Date/Time

Project Manager SCUR Review

Date

Project Manager SRB Review

Date



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

Exceptions: VDA, Coliform, TCC, Oil and Grease, DRG-7605 (up to), DO, P<sub>H2</sub>

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

Project # \_\_\_\_\_

Method	0	1	2	3	4	5	6	7	8	9	10	11	12
SR-045-020m, 40m, 60m, 80m, 100m, 120m, 140m, 160m, 180m, 200m	/	/	/	/	/	/	/	/	/	/	/	/	/
SR-045-030m, 40m, 60m, 80m, 100m, 120m, 140m, 160m, 180m, 200m	/	/	/	/	/	/	/	/	/	/	/	/	/
SR-045-040m, 60m, 80m, 100m, 120m, 140m, 160m, 180m, 200m	/	/	/	/	/	/	/	/	/	/	/	/	/
SR-045-050m, 60m, 80m, 100m, 120m, 140m, 160m, 180m, 200m	/	/	/	/	/	/	/	/	/	/	/	/	/
SR-045-060m, 80m, 100m, 120m, 140m, 160m, 180m, 200m	/	/	/	/	/	/	/	/	/	/	/	/	/
SR-045-070m, 80m, 100m, 120m, 140m, 160m, 180m, 200m	/	/	/	/	/	/	/	/	/	/	/	/	/
SR-045-080m, 100m, 120m, 140m, 160m, 180m, 200m	/	/	/	/	/	/	/	/	/	/	/	/	/
SR-045-090m, 100m, 120m, 140m, 160m, 180m, 200m	/	/	/	/	/	/	/	/	/	/	/	/	/
SR-045-100m, 120m, 140m, 160m, 180m, 200m	/	/	/	/	/	/	/	/	/	/	/	/	/
SR-045-110m, 120m, 140m, 160m, 180m, 200m	/	/	/	/	/	/	/	/	/	/	/	/	/
SR-045-120m, 140m, 160m, 180m, 200m	/	/	/	/	/	/	/	/	/	/	/	/	/
SR-045-130m, 140m, 160m, 180m, 200m	/	/	/	/	/	/	/	/	/	/	/	/	/
SR-045-140m, 160m, 180m, 200m	/	/	/	/	/	/	/	/	/	/	/	/	/
SR-045-150m, 160m, 180m, 200m	/	/	/	/	/	/	/	/	/	/	/	/	/
SR-045-160m, 180m, 200m	/	/	/	/	/	/	/	/	/	/	/	/	/
SR-045-170m, 180m, 200m	/	/	/	/	/	/	/	/	/	/	/	/	/
SR-045-180m, 200m	/	/	/	/	/	/	/	/	/	/	/	/	/
SR-045-190m, 200m	/	/	/	/	/	/	/	/	/	/	/	/	/
SR-045-200m, 200m	/	/	/	/	/	/	/	/	/	/	/	/	/

### pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	ppm added	Days preservative added	Time preservative added	Amount of Preservative added	Total

Note: Whenever there is a discrepancy affecting both parties complete samples & logs at the point of receipt of the sample to the State Quality Office or the local project maintenance out of sample collection containers.

Page 1 of 1

<p>Approved Case Manager: [Signature]</p> <p>Approved Date: 10/10/20</p>	<p>Approved Case Manager: [Signature]</p> <p>Approved Date: 10/10/20</p>
<p>Approved Case Manager: [Signature]</p> <p>Approved Date: 10/10/20</p>	<p>Approved Case Manager: [Signature]</p> <p>Approved Date: 10/10/20</p>

Case No.	Case Name	Case Type	Case Status	Case Manager	Case Date	Case Location	Case Notes
1	SMITH, III	...	...	...	...	...	...
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

<p>Case No. 100</p> <p>Case Name: [Handwritten]</p> <p>Case Type: [Handwritten]</p> <p>Case Status: [Handwritten]</p> <p>Case Manager: [Handwritten]</p> <p>Case Date: [Handwritten]</p> <p>Case Location: [Handwritten]</p> <p>Case Notes: [Handwritten]</p>
---

John [Handwritten]



October 22, 2021

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

RE: Project: MCDONOUGH PIEZOMETERS RADS  
Pace Project No.: 92560137

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 09, 2021 and September 10, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

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

Enclosures

cc: Stephen Benda  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power  
Kristen Jurinko  
J. Shelby Mobley  
Charles Norton, Southern Company  
Ms. Lauren Petty, Southern Company  
Dawn Prell, Golder Associates Inc.  
Tim Richards, Golder Associates - Atlanta



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MCDONOUGH PIEZOMETERS RADS  
Pace Project No.: 92560137

---

### Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 04222CA  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
Delaware Certification  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Florida: Cert E871149 SEKS WET  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas/TNI Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA180012  
Louisiana DEQ/TNI Certification #: 4086  
Maine Certification #: 2017020  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572018-1  
New Hampshire/TNI Certification #: 297617  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-010  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: 02867  
Texas/TNI Certification #: T104704188-17-3  
Utah/TNI Certification #: PA014572017-9  
USDA Soil Permit #: P330-17-00091  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 9526  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad  
Wyoming Certification #: 8TMS-L

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### SAMPLE SUMMARY

Project: MCDONOUGH PIEZOMETERS RADS

Pace Project No.: 92560137

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92560137001	B-117D	Water	09/08/21 16:15	09/09/21 08:45
92560137002	B-118	Water	09/08/21 13:35	09/09/21 08:45
92560137003	B-119D	Water	09/08/21 15:17	09/09/21 08:45
92560137004	B-116D	Water	09/09/21 13:53	09/10/21 17:40

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH PIEZOMETERS RADS

Pace Project No.: 92560137

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92560137001	B-117D	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560137002	B-118	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560137003	B-119D	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560137004	B-116D	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	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 PIEZOMETERS RADS

Pace Project No.: 92560137

**Sample: B-117D**      **Lab ID: 92560137001**      Collected: 09/08/21 16:15      Received: 09/09/21 08:45      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	<b>0.124 ± 0.226 (0.514)</b> <b>C:95% T:NA</b>	pCi/L	10/06/21 12:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.571 ± 0.456 (0.906)</b> <b>C:67% T:87%</b>	pCi/L	10/04/21 15:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.695 ± 0.682 (1.42)</b>	pCi/L	10/07/21 15:34	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH PIEZOMETERS RADS

Pace Project No.: 92560137

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-118</b> <b>Lab ID: 92560137002</b> Collected: 09/08/21 13:35      Received: 09/09/21 08:45      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>-0.0218 ± 0.176 (0.498)</b> <b>C:96% T:NA</b>	pCi/L	10/06/21 12:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.0324 ± 0.341 (0.790)</b> <b>C:65% T:94%</b>	pCi/L	10/04/21 15:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.0324 ± 0.517 (1.29)</b>	pCi/L	10/07/21 15:34	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH PIEZOMETERS RADS

Pace Project No.: 92560137

**Sample: B-119D**      **Lab ID: 92560137003**      Collected: 09/08/21 15:17      Received: 09/09/21 08:45      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	<b>-0.0190 ± 0.153 (0.445)</b> <b>C:92% T:NA</b>	pCi/L	10/06/21 12:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.168 ± 0.399 (0.887)</b> <b>C:67% T:88%</b>	pCi/L	10/04/21 15:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.168 ± 0.552 (1.33)</b>	pCi/L	10/07/21 15:34	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH PIEZOMETERS RADS

Pace Project No.: 92560137

**Sample: B-116D**      **Lab ID: 92560137004**      Collected: 09/09/21 13:53      Received: 09/10/21 17:40      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	<b>0.388 ± 0.259 (0.447)</b> <b>C:100% T:NA</b>	pCi/L	10/06/21 08:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.499 ± 0.409 (0.817)</b> <b>C:64% T:91%</b>	pCi/L	10/04/21 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.887 ± 0.668 (1.26)</b>	pCi/L	10/06/21 15:27	7440-14-4	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: MCDONOUGH PIEZOMETERS RADS

Pace Project No.: 92560137

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QC Batch: 465345	Analysis Method: EPA 9320
QC Batch Method: EPA 9320	Analysis Description: 9320 Radium 228
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560137001, 92560137002, 92560137003

---

METHOD BLANK: 2247073 Matrix: Water

Associated Lab Samples: 92560137001, 92560137002, 92560137003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.306 ± 0.283 (0.572) C:72% T:95%	pCi/L	10/04/21 11:58	

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

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH PIEZOMETERS RADS

Pace Project No.: 92560137

QC Batch:	465347	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92560137001, 92560137002, 92560137003

METHOD BLANK: 2247077 Matrix: Water

Associated Lab Samples: 92560137001, 92560137002, 92560137003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0279 ± 0.217 (0.589) C:92% T:NA	pCi/L	10/06/21 12:00	

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

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH PIEZOMETERS RADS

Pace Project No.: 92560137

QC Batch: 465343

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560137004

METHOD BLANK: 2247069

Matrix: Water

Associated Lab Samples: 92560137004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.209 ± 0.287 (0.612) C:69% T:89%	pCi/L	10/04/21 11:58	

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

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH PIEZOMETERS RADS

Pace Project No.: 92560137

QC Batch: 465344

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560137004

METHOD BLANK: 2247072

Matrix: Water

Associated Lab Samples: 92560137004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00717 ± 0.168 (0.443) C:96% T:NA	pCi/L	10/06/21 08:19	

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

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## QUALIFIERS

Project: MCDONOUGH PIEZOMETERS RADS

Pace Project No.: 92560137

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH PIEZOMETERS RADS

Pace Project No.: 92560137

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560137001	B-117D	EPA 9315	465347		
92560137002	B-118	EPA 9315	465347		
92560137003	B-119D	EPA 9315	465347		
92560137004	B-116D	EPA 9315	465344		
92560137001	B-117D	EPA 9320	465345		
92560137002	B-118	EPA 9320	465345		
92560137003	B-119D	EPA 9320	465345		
92560137004	B-116D	EPA 9320	465343		
92560137001	B-117D	Total Radium Calculation	467213		
92560137002	B-118	Total Radium Calculation	467213		
92560137003	B-119D	Total Radium Calculation	467213		
92560137004	B-116D	Total Radium Calculation	467011		

### REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Ashville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: G.A. Lower  
 Project #: \_\_\_\_\_  
 Courier:  Commercial  Fed Ex  UPS  USPS  Client  Pace  Other \_\_\_\_\_

WO#: 92560137



Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/14/24  
CH

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_  
 Thermometer:  N/A 214 Type of Ice:  Dry  Blue  None

Biological Tissue Frozen?  Yes  No  N/A

Cooler Temp: 2.6 Correction Factor: 0.1  
 Add/Subtract (+/-) \_\_\_\_\_

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

Cooler Temp Corrected (°C): 2.5  
 USDA Regulated Soil?  N/A, water sample

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCUR Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_



Document Name:  
 Sample Condition Upon Receipt (SCUR)  
 Document No.:  
 F-CAR-CE-033-Rev.07

Document Revised: October 28, 2020  
 Page 2 of 2  
 Issuing Authority:  
 Pace Carolina Quality Office

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/SO15 (water) DOC, UHG

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

Project #

**WO# : 92560137**

PH: N/A

Due Date: 09/30/21

CLIENT: CR-CR Power

Row #	Sample ID	Container	Preservative	Volume	Material	Notes
1	BP4U-125 ml	Plastic	Unpreserved (N/A)	125 ml	(D-1)	
2	BP1U-250 ml	Plastic	Unpreserved (N/A)	250 ml		
3	BP3U-500 ml	Plastic	Unpreserved (N/A)	500 ml		
4	BP1U-1 liter	Plastic	Unpreserved (N/A)	1 liter		
5	BP4U-125 ml	Plastic	H2SO4 (pH < 2)	125 ml	(D-1)	
6	BP3U-250 ml	plastic	H2SO4 (pH < 2)	250 ml		
7	BP4U-125 ml	Plastic	2N Acetic & NaOH (pH)	125 ml	(D-1)	
8	BP4U-125 ml	Plastic	NaOH (pH < 12)	125 ml	(D-1)	
9	WSPU-Wide-mouthed Glass Jar		Unpreserved			
10	AG1U-1 liter	Amber	Unpreserved (N/A)	1 liter	(D-1)	
11	AG1U-1 liter	Amber	HCl (pH < 2)	1 liter		
12	AG3U-250 ml	Amber	Unpreserved (N/A)	250 ml	(D-1)	
13	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
14	AG3U-250 ml	Amber	H2SO4 (pH < 2)	250 ml		
15	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
16	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
17	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
18	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
19	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
20	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
21	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
22	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
23	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
24	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
25	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
26	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
27	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
28	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
29	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
30	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
31	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
32	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
33	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
34	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
35	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
36	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
37	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
38	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
39	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
40	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
41	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
42	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
43	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
44	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
45	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
46	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
47	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
48	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
49	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
50	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
51	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
52	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
53	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
54	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
55	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
56	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
57	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
58	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
59	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
60	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
61	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
62	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
63	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
64	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
65	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
66	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
67	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
68	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
69	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
70	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
71	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
72	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
73	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
74	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
75	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
76	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
77	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
78	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
79	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
80	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
81	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
82	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
83	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
84	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
85	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
86	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
87	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
88	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
89	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
90	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
91	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
92	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
93	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
94	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
95	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
96	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
97	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
98	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
99	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		
100	AG1U-1 liter	Amber	H2SO4 (pH < 2)	1 liter		

**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).

*Handwritten signature*

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: Requesting Agency Information  
 Agency Name: *San Diego County Sheriff's Department*  
 Requesting Agency Contact: *John Smith*  
 Requesting Agency Title: *Officer*  
 Requesting Agency Address: *San Diego, CA 92101*  
 Requesting Agency Phone: *(619) 594-0200*  
 Requesting Agency Fax: *(619) 594-0200*

Section B: Analytical Information  
 Analytical Agency: *San Diego County Sheriff's Department*  
 Analytical Agency Contact: *John Smith*  
 Analytical Agency Title: *Officer*  
 Analytical Agency Address: *San Diego, CA 92101*  
 Analytical Agency Phone: *(619) 594-0200*  
 Analytical Agency Fax: *(619) 594-0200*

Section C: Sample Information  
 Sample ID: *1501-001-01*  
 Sample Type: *SWAB*  
 Sample Quantity: *1*

Section D: Chain of Custody  
 Date: *9/19/21*  
 Time: *8:10*  
 Location: *San Diego*

Item #	Sample ID	Sample Type	Quantity	Date	Time	Location	Preservation							Analysis Test	Y/N	Analysis Date	Analysis Time
							Temperature	Humidity	Light	Vibration	Other	Method	Operator				
1	B-119	SWAB	1	9/19/21	8:10	San Diego											
2	B-119	SWAB	1	9/19/21	8:10	San Diego											
3	B-119	SWAB	1	9/19/21	8:10	San Diego											
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	

Section E: Analytical Information  
 Analytical Agency: *San Diego County Sheriff's Department*  
 Analytical Agency Contact: *John Smith*  
 Analytical Agency Title: *Officer*  
 Analytical Agency Address: *San Diego, CA 92101*  
 Analytical Agency Phone: *(619) 594-0200*  
 Analytical Agency Fax: *(619) 594-0200*

Section F: Chain of Custody  
 Date: *9/19/21*  
 Time: *8:10*  
 Location: *San Diego*

Section G: Signatures  
 Requesting Agency Signature: *John Smith*  
 Analytical Agency Signature: *John Smith*  
 Date: *9/19/21*





Document Name  
Sample Collection Upon Receipt (SCUR)  
 Document No  
4-2000 (1-2015 rev)

Document Revised: October 18, 2010  
 Page 1 of 2  
 Issuing Authority  
 Pace Analytical, Inc. (PAI)

Lab(s) to be receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Setup & Conditions  
 (Your choice of)

Client Name:

Carroll's Food & Drug

Project #

Owner:  
 Commercial

Retail  QRS  QRS  Other

Retail

Unusually Soil Present?

Yes  No  Soil label?  Yes  No

Order/Trade Agreement (if necessary, Complete) NA

Packing Material

Bubble wrap  Styrofoam  None

Biological Hazard Present

Yes  No  N/A

Thermometer

In good

2/3/11

Type of ice

Dry  Wet  None

Cooler Temp

3.4

Correction Factor:  
 applicable?  Yes  No

2/3/11

Temp should be above freezing to 6°C

Samples out of temperature range. Samples out of freezing process not output

Cooler Temp Corrected (°C):

USDA's Regulated Soil?  Yes  No

Do samples originate in a jurisdiction with a different State, GA, NY, or DC (check reason):

Yes  No

Do samples originate from a foreign jurisdiction (check country):

Canada, Chesapeake

Check all that apply (Present)?

Yes  No  No

Samples delivered in "Hot" boxes?

Yes  No  No

Boxes held Temp. analysis (10 to 15 min)?

Yes  No  No

Each Turn around Time dependent?

Yes  No  No

Staff are trained?

Yes  No  No

Correct Container Used?

Yes  No  No

Freeze Container Used?

Yes  No  No

Correct Temp. label?

Yes  No  No

Discovery analysis. Sample Temp. if above?

Yes  No  No

Sample label & MUMS (20)?

Yes  No  No

includes Date, Time, ID, Analyst, & Matrix

2/3/11

Injection in vial (MUMS) done?

Yes  No  No

Top label Present?

Yes  No  No

Top label includes batch Present?

Yes  No  No

10  
11

COAHM (PAI/PAI/PAI) Delivered?

Temperature Required?  Yes  No

1 of 10 of up to containers

Client responsible for no samples

Person contacted

Date/Time

Project Manager SCUR Review:

Date:

Project Manager SRB Review:

Date:



Page 1 of 1

**Sample Information**

Sample ID: *1130*

Client: *Case - Hand - 9/14/21*

Analyst: *[Signature]*

Method: *[Signature]*

Date: *9/10/21*

Step	Description	Initials	Date
1	Sample received		
2	Sample storage		
3	Sample preparation		
4	Sample analysis		
5	Sample cleanup		
6	Sample disposal		
7	Sample storage		
8	Sample disposal		
9	Sample storage		
10	Sample disposal		
11	Sample storage		
12	Sample disposal		

Step	Description	Initials	Date
1	Sample received		
2	Sample storage		
3	Sample preparation		
4	Sample analysis		
5	Sample cleanup		
6	Sample disposal		
7	Sample storage		
8	Sample disposal		
9	Sample storage		
10	Sample disposal		
11	Sample storage		
12	Sample disposal		

*[Handwritten notes and signatures]*

## Quality Control Sample Performance Assessment

Additional Manual Methods and/or All Fields Multi-Typed in Yellow.



TITLE: 14-001  
 Assessor: J.J.F.  
 Date: 05/20/08  
 Version: 2.0  
 Page: 21

Method Name	Sample Type	Sample ID	Sample Location	Sample Status	Sample Comments	Field ID	Method	Method ID	Method Description	Method Status	Method Comments
Sample 1	Water	14-001-001	Site 1	Pass	Sample 1: 100% Pass	14-001	Water	1000	Sample 1: 100% Pass	Pass	Sample 1: 100% Pass
Sample 2	Water	14-001-002	Site 1	Pass	Sample 2: 100% Pass	14-001	Water	1000	Sample 2: 100% Pass	Pass	Sample 2: 100% Pass
Sample 3	Water	14-001-003	Site 1	Pass	Sample 3: 100% Pass	14-001	Water	1000	Sample 3: 100% Pass	Pass	Sample 3: 100% Pass
Sample 4	Water	14-001-004	Site 1	Pass	Sample 4: 100% Pass	14-001	Water	1000	Sample 4: 100% Pass	Pass	Sample 4: 100% Pass
Sample 5	Water	14-001-005	Site 1	Pass	Sample 5: 100% Pass	14-001	Water	1000	Sample 5: 100% Pass	Pass	Sample 5: 100% Pass
Sample 6	Water	14-001-006	Site 1	Pass	Sample 6: 100% Pass	14-001	Water	1000	Sample 6: 100% Pass	Pass	Sample 6: 100% Pass
Sample 7	Water	14-001-007	Site 1	Pass	Sample 7: 100% Pass	14-001	Water	1000	Sample 7: 100% Pass	Pass	Sample 7: 100% Pass
Sample 8	Water	14-001-008	Site 1	Pass	Sample 8: 100% Pass	14-001	Water	1000	Sample 8: 100% Pass	Pass	Sample 8: 100% Pass
Sample 9	Water	14-001-009	Site 1	Pass	Sample 9: 100% Pass	14-001	Water	1000	Sample 9: 100% Pass	Pass	Sample 9: 100% Pass
Sample 10	Water	14-001-010	Site 1	Pass	Sample 10: 100% Pass	14-001	Water	1000	Sample 10: 100% Pass	Pass	Sample 10: 100% Pass

Method Name

Water

## Quality Control Sample Performance Assessment



Journal Mail Movers Letter for 1st and 2nd editions at Yahoo!

Year: 2014  
 Edition: 1st  
 Version: 1.0  
 Author:

<p><b>Method Used</b></p> <p>All samples were taken from the 1st edition of the 2014-2015 sample performance assessment.</p>	<p><b>Sample Characteristics</b></p> <p>The samples were taken from the 1st edition of the 2014-2015 sample performance assessment.</p>	<p><b>Notes</b></p> <p>The samples were taken from the 1st edition of the 2014-2015 sample performance assessment.</p>
--	---	--

<p><b>Method Used</b></p> <p>All samples were taken from the 1st edition of the 2014-2015 sample performance assessment.</p>	<p><b>Sample Characteristics</b></p> <p>The samples were taken from the 1st edition of the 2014-2015 sample performance assessment.</p>	<p><b>Notes</b></p> <p>The samples were taken from the 1st edition of the 2014-2015 sample performance assessment.</p>
--	---	--

All 1st edition of 2014-2015 sample performance assessment results are shown in this table.

Comments:

FILED  
 APR 10 2014

## Quality Control Sample Performance Assessment

Project Name: Waterbury Community College

<p><b>Sample Description</b></p> <p>1. <u>Waterbury Community College</u></p> <p>2. <u>Waterbury Community College</u></p> <p>3. <u>Waterbury Community College</u></p> <p>4. <u>Waterbury Community College</u></p> <p>5. <u>Waterbury Community College</u></p> <p>6. <u>Waterbury Community College</u></p> <p>7. <u>Waterbury Community College</u></p> <p>8. <u>Waterbury Community College</u></p> <p>9. <u>Waterbury Community College</u></p> <p>10. <u>Waterbury Community College</u></p>	<p><b>Sample Location</b></p> <p>1. <u>Waterbury Community College</u></p> <p>2. <u>Waterbury Community College</u></p> <p>3. <u>Waterbury Community College</u></p> <p>4. <u>Waterbury Community College</u></p> <p>5. <u>Waterbury Community College</u></p> <p>6. <u>Waterbury Community College</u></p> <p>7. <u>Waterbury Community College</u></p> <p>8. <u>Waterbury Community College</u></p> <p>9. <u>Waterbury Community College</u></p> <p>10. <u>Waterbury Community College</u></p>	<p><b>Sample Date</b></p> <p>1. <u>Waterbury Community College</u></p> <p>2. <u>Waterbury Community College</u></p> <p>3. <u>Waterbury Community College</u></p> <p>4. <u>Waterbury Community College</u></p> <p>5. <u>Waterbury Community College</u></p> <p>6. <u>Waterbury Community College</u></p> <p>7. <u>Waterbury Community College</u></p> <p>8. <u>Waterbury Community College</u></p> <p>9. <u>Waterbury Community College</u></p> <p>10. <u>Waterbury Community College</u></p>	<p><b>Sample Time</b></p> <p>1. <u>Waterbury Community College</u></p> <p>2. <u>Waterbury Community College</u></p> <p>3. <u>Waterbury Community College</u></p> <p>4. <u>Waterbury Community College</u></p> <p>5. <u>Waterbury Community College</u></p> <p>6. <u>Waterbury Community College</u></p> <p>7. <u>Waterbury Community College</u></p> <p>8. <u>Waterbury Community College</u></p> <p>9. <u>Waterbury Community College</u></p> <p>10. <u>Waterbury Community College</u></p>	<p><b>Sample Results</b></p> <p>1. <u>Waterbury Community College</u></p> <p>2. <u>Waterbury Community College</u></p> <p>3. <u>Waterbury Community College</u></p> <p>4. <u>Waterbury Community College</u></p> <p>5. <u>Waterbury Community College</u></p> <p>6. <u>Waterbury Community College</u></p> <p>7. <u>Waterbury Community College</u></p> <p>8. <u>Waterbury Community College</u></p> <p>9. <u>Waterbury Community College</u></p> <p>10. <u>Waterbury Community College</u></p>
<p><b>Notes:</b></p> <p>1. <u>Waterbury Community College</u></p> <p>2. <u>Waterbury Community College</u></p> <p>3. <u>Waterbury Community College</u></p> <p>4. <u>Waterbury Community College</u></p> <p>5. <u>Waterbury Community College</u></p> <p>6. <u>Waterbury Community College</u></p> <p>7. <u>Waterbury Community College</u></p> <p>8. <u>Waterbury Community College</u></p> <p>9. <u>Waterbury Community College</u></p> <p>10. <u>Waterbury Community College</u></p>				

Waterbury Community College

Waterbury Community College

Waterbury Community College





September 28, 2021

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

RE: Project: MCDONOUGH  
Pace Project No.: 92561195

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 10, 2021 and September 14, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

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

Enclosures

cc: Stephen Benda  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power  
Kristen Jurinko  
J. Shelby Mobley  
Charles Norton, Southern Company  
Ms. Lauren Petty, Southern Company  
Dawn Prell, Golder Associates Inc.  
Tim Richards, Golder Associates - Atlanta



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MCDONOUGH

Pace Project No.: 92561195

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### Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Virginia/VELAP Certification #: 460221

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### Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804  
Florida/NELAP Certification #: E87648  
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40  
South Carolina Certification #: 99030001  
Virginia/VELAP Certification #: 460222

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### 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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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: MCDONOUGH  
Pace Project No.: 92561195

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
92561195001	B-100	Water	09/13/21 16:55	09/14/21 09:35
92560768001	B-62	Water	09/09/21 15:45	09/10/21 17:40

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH

Pace Project No.: 92561195

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
92561195001	B-100	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92560768001	B-62	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH

Pace Project No.: 92561195

**Sample: B-100**      **Lab ID: 92561195001**      Collected: 09/13/21 16:55      Received: 09/14/21 09:35      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/14/21 16:42		
pH	<b>5.27</b>	Std. Units			1		09/14/21 16:42		

**6010D ATL ICP**

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

Calcium	<b>51.5</b>	mg/L	1.0	0.12	1	09/23/21 10:02	09/23/21 19:51	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/21/21 12:35	09/22/21 19:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 19:34	7440-38-2	
Barium	<b>0.021</b>	mg/L	0.0050	0.00067	1	09/21/21 12:35	09/22/21 19:34	7440-39-3	
Beryllium	<b>0.00053</b>	mg/L	0.00050	0.000054	1	09/21/21 12:35	09/22/21 19:34	7440-41-7	
Boron	<b>0.24</b>	mg/L	0.040	0.0086	1	09/21/21 12:35	09/22/21 19:34	7440-42-8	
Cadmium	<b>0.00029J</b>	mg/L	0.00050	0.00011	1	09/21/21 12:35	09/22/21 19:34	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/21/21 12:35	09/22/21 19:34	7440-47-3	
Cobalt	<b>0.035</b>	mg/L	0.0050	0.00039	1	09/21/21 12:35	09/22/21 19:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/21/21 12:35	09/22/21 19:34	7439-92-1	
Lithium	<b>0.0022J</b>	mg/L	0.030	0.00073	1	09/21/21 12:35	09/22/21 19:34	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/21/21 12:35	09/22/21 19:34	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/21/21 12:35	09/22/21 19:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/21/21 12:35	09/22/21 19:34	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.000078	1	09/24/21 09:45	09/27/21 17:42	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>636</b>	mg/L	20.0	20.0	1		09/20/21 16:36		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>11.1</b>	mg/L	1.0	0.60	1		09/15/21 21:55	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/21 21:55	16984-48-8	
Sulfate	<b>351</b>	mg/L	8.0	4.0	8		09/16/21 03:25	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH

Pace Project No.: 92561195

**Sample: B-62**      **Lab ID: 92560768001**      Collected: 09/09/21 15:45      Received: 09/10/21 17:40      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		09/13/21 08:41		
pH	<b>6.31</b>	Std. Units			1		09/13/21 08:41		

**6010D ATL ICP**

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

Calcium	<b>29.2</b>	mg/L	1.0	0.12	1	09/20/21 09:45	09/20/21 17:33	7440-70-2	
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**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	09/20/21 09:45	09/22/21 11:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 11:15	7440-38-2	
Barium	<b>0.021</b>	mg/L	0.0050	0.00067	1	09/20/21 09:45	09/22/21 11:15	7440-39-3	
Beryllium	<b>0.00014J</b>	mg/L	0.00050	0.000054	1	09/20/21 09:45	09/22/21 11:15	7440-41-7	
Boron	<b>0.068</b>	mg/L	0.040	0.0086	1	09/20/21 09:45	09/22/21 11:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/20/21 09:45	09/22/21 11:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/20/21 09:45	09/22/21 11:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/20/21 09:45	09/22/21 11:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/20/21 09:45	09/22/21 11:15	7439-92-1	
Lithium	<b>0.0094J</b>	mg/L	0.030	0.00073	1	09/20/21 09:45	09/22/21 11:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/20/21 09:45	09/22/21 11:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/20/21 09:45	09/22/21 11:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/20/21 09:45	09/22/21 11:15	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	0.000078	1	09/21/21 07:00	09/21/21 12:20	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2011  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>174</b>	mg/L	10.0	10.0	1		09/15/21 18:58		
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>5.8</b>	mg/L	1.0	0.60	1		09/15/21 06:38	16887-00-6	
Fluoride	<b>0.14</b>	mg/L	0.10	0.050	1		09/15/21 06:38	16984-48-8	
Sulfate	<b>49.2</b>	mg/L	1.0	0.50	1		09/15/21 06:38	14808-79-8	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH

Pace Project No.: 92561195

QC Batch: 648325

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560768001

METHOD BLANK: 3400203

Matrix: Water

Associated Lab Samples: 92560768001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/20/21 17:23	

LABORATORY CONTROL SAMPLE: 3400204

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3400205 3400206

Parameter	Units	3400205		3400206		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560774001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	42.0	1	1	44.1	42.4	202	31	75-125	4	20 M1

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### QUALITY CONTROL DATA

Project: MCDONOUGH  
 Pace Project No.: 92561195

QC Batch: 648974      Analysis Method: EPA 6010D  
 QC Batch Method: EPA 3010A      Analysis Description: 6010D ATL  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92561195001

METHOD BLANK: 3403796      Matrix: Water  
 Associated Lab Samples: 92561195001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/23/21 17:54	

LABORATORY CONTROL SAMPLE: 3403797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3403798      3403799

Parameter	Units	92560768003		3403799		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	42.1	1	41.6	40.7	-42	-139	75-125	2	20	M1

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**QUALITY CONTROL DATA**

Project: MCDONOUGH

Pace Project No.: 92561195

QC Batch: 648326

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560768001

METHOD BLANK: 3400210

Matrix: Water

Associated Lab Samples: 92560768001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/22/21 11:04	
Arsenic	mg/L	ND	0.0050	0.0011	09/22/21 11:04	
Barium	mg/L	ND	0.0050	0.00067	09/22/21 11:04	
Beryllium	mg/L	ND	0.00050	0.000054	09/22/21 11:04	
Boron	mg/L	ND	0.040	0.0086	09/22/21 11:04	
Cadmium	mg/L	ND	0.00050	0.00011	09/22/21 11:04	
Chromium	mg/L	ND	0.0050	0.0011	09/22/21 11:04	
Cobalt	mg/L	ND	0.0050	0.00039	09/22/21 11:04	
Lead	mg/L	ND	0.0010	0.00089	09/22/21 11:04	
Lithium	mg/L	ND	0.030	0.00073	09/22/21 11:04	
Molybdenum	mg/L	ND	0.010	0.00074	09/22/21 11:04	
Selenium	mg/L	ND	0.0050	0.0014	09/22/21 11:04	
Thallium	mg/L	ND	0.0010	0.00018	09/22/21 11:04	

LABORATORY CONTROL SAMPLE: 3400211

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	101	80-120	
Barium	mg/L	0.1	0.11	106	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	113	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.11	108	80-120	
Molybdenum	mg/L	0.1	0.10	101	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: 3400212 3400213

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92560774001	Result	Spike Conc.	Spike Conc.							
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	105	105	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	102	105	75-125	3	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH

Pace Project No.: 92561195

Parameter	Units	3400212		3400213		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560774001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.022	0.1	0.1	0.13	0.13	104	103	75-125	1	20		
Beryllium	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	2	20		
Boron	mg/L	0.51	1	1	1.6	1.6	110	109	75-125	1	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	2	20		
Cobalt	mg/L	0.0048J	0.1	0.1	0.11	0.11	101	102	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	1	20		
Lithium	mg/L	0.024J	0.1	0.1	0.12	0.12	99	99	75-125	0	20		
Molybdenum	mg/L	0.0023J	0.1	0.1	0.11	0.11	105	106	75-125	1	20		
Selenium	mg/L	0.0031J	0.1	0.1	0.11	0.11	104	106	75-125	2	20		
Thallium	mg/L	ND	0.1	0.1	0.098	0.10	98	101	75-125	3	20		

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**QUALITY CONTROL DATA**

Project: MCDONOUGH  
 Pace Project No.: 92561195

QC Batch: 648523 Analysis Method: EPA 6020B  
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92561195001

METHOD BLANK: 3401252 Matrix: Water  
 Associated Lab Samples: 92561195001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/22/21 18:13	
Arsenic	mg/L	ND	0.0050	0.0011	09/22/21 18:13	
Barium	mg/L	ND	0.0050	0.00067	09/22/21 18:13	
Beryllium	mg/L	ND	0.00050	0.000054	09/22/21 18:13	
Boron	mg/L	ND	0.040	0.0086	09/22/21 18:13	
Cadmium	mg/L	ND	0.00050	0.00011	09/22/21 18:13	
Chromium	mg/L	ND	0.0050	0.0011	09/22/21 18:13	
Cobalt	mg/L	ND	0.0050	0.00039	09/22/21 18:13	
Lead	mg/L	ND	0.0010	0.00089	09/22/21 18:13	
Lithium	mg/L	ND	0.030	0.00073	09/22/21 18:13	
Molybdenum	mg/L	ND	0.010	0.00074	09/22/21 18:13	
Selenium	mg/L	ND	0.0050	0.0014	09/22/21 18:13	
Thallium	mg/L	ND	0.0010	0.00018	09/22/21 18:13	

LABORATORY CONTROL SAMPLE: 3401253

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.11	109	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.11	109	80-120	
Cobalt	mg/L	0.1	0.11	108	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.095	95	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	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3401254 3401255

Parameter	Units	92560774020 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.1	0.11	108	107	75-125	1	20	
Arsenic	mg/L	0.0016J	0.1	0.1	0.10	0.10	100	100	75-125	0	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH

Pace Project No.: 92561195

Parameter	Units	3401254		3401255		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560774020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.021	0.1	0.1	0.13	0.13	113	113	75-125	0	20		
Beryllium	mg/L	0.0090	0.1	0.1	0.10	0.10	92	94	75-125	2	20		
Boron	mg/L	0.16	1	1	1.2	1.2	99	102	75-125	3	20		
Cadmium	mg/L	0.0014	0.1	0.1	0.10	0.10	101	100	75-125	0	20		
Chromium	mg/L	ND	0.1	0.1	0.11	0.11	109	109	75-125	0	20		
Cobalt	mg/L	0.23	0.1	0.1	0.34	0.32	107	94	75-125	4	20		
Lead	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20		
Lithium	mg/L	0.053	0.1	0.1	0.15	0.14	95	90	75-125	4	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	103	105	75-125	2	20		
Selenium	mg/L	0.0035J	0.1	0.1	0.10	0.10	100	97	75-125	2	20		
Thallium	mg/L	0.00036J	0.1	0.1	0.097	0.097	97	96	75-125	1	20		

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**QUALITY CONTROL DATA**

Project: MCDONOUGH  
 Pace Project No.: 92561195

QC Batch: 648337 Analysis Method: EPA 7470A  
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92560768001

METHOD BLANK: 3400307 Matrix: Water  
 Associated Lab Samples: 92560768001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/21/21 12:04	

LABORATORY CONTROL SAMPLE: 3400308

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3400309 3400310

Parameter	Units	92561283001		3400310		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0026	0.0024	103	96	75-125	7	20

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**QUALITY CONTROL DATA**

Project: MCDONOUGH  
 Pace Project No.: 92561195

QC Batch: 649459 Analysis Method: EPA 7470A  
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92561195001

METHOD BLANK: 3406298 Matrix: Water  
 Associated Lab Samples: 92561195001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/27/21 16:51	

LABORATORY CONTROL SAMPLE: 3406299

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0027	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3406300 3406301

Parameter	Units	92560774017		3406301		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0026	100	103	75-125	3	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH

Pace Project No.: 92561195

QC Batch: 647027

Analysis Method: SM 2540C-2011

QC Batch Method: SM 2540C-2011

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92560768001

METHOD BLANK: 3393790

Matrix: Water

Associated Lab Samples: 92560768001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/15/21 18:56	

LABORATORY CONTROL SAMPLE: 3393791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	390	98	90-111	

SAMPLE DUPLICATE: 3393792

Parameter	Units	92560138001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	75.0	78.0	4	10	

SAMPLE DUPLICATE: 3393793

Parameter	Units	92560281005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	133	139	4	10	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH

Pace Project No.: 92561195

QC Batch: 648323	Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92561195001

METHOD BLANK: 3400167 Matrix: Water

Associated Lab Samples: 92561195001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/20/21 16:33	

LABORATORY CONTROL SAMPLE: 3400168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	90-111	

SAMPLE DUPLICATE: 3400169

Parameter	Units	92560963001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	139	127	9	10	

SAMPLE DUPLICATE: 3400170

Parameter	Units	92560768008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	296	295	0	10	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH

Pace Project No.: 92561195

QC Batch: 647162	Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92560768001

METHOD BLANK: 3394748 Matrix: Water

Associated Lab Samples: 92560768001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/14/21 22:53	
Fluoride	mg/L	ND	0.10	0.050	09/14/21 22:53	
Sulfate	mg/L	ND	1.0	0.50	09/14/21 22:53	

LABORATORY CONTROL SAMPLE: 3394749

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	2.4	97	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394750 3394751

Parameter	Units	92560938001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	3.0	50	50	58.4	61.9	111	118	90-110	6	10	M1	
Fluoride	mg/L	0.091J	2.5	2.5	3.4	3.5	131	134	90-110	2	10	M1	
Sulfate	mg/L	33.4	50	50	88.5	91.8	110	117	90-110	4	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394752 3394753

Parameter	Units	92560676003		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	146	50	50	196	198	99	105	90-110	1	10		
Fluoride	mg/L	0.29	2.5	2.5	4.9	4.8	184	179	90-110	2	10	M1	
Sulfate	mg/L	140	50	50	193	195	105	109	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394754 3394755

Parameter	Units	92560676001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	4.9	50	50	62.8	64.2	116	119	90-110	2	10	M1	
Fluoride	mg/L	0.40	2.5	2.5	3.5	3.6	124	127	90-110	2	10	M1	
Sulfate	mg/L	3.8	50	50	62.4	63.7	117	120	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**

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**QUALITY CONTROL DATA**

Project: MCDONOUGH

Pace Project No.: 92561195

QC Batch: 647237	Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92561195001

METHOD BLANK: 3394951 Matrix: Water

Associated Lab Samples: 92561195001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/15/21 13:41	
Fluoride	mg/L	ND	0.10	0.050	09/15/21 13:41	
Sulfate	mg/L	ND	1.0	0.50	09/15/21 13:41	

LABORATORY CONTROL SAMPLE: 3394952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.9	94	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394953 3394954

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560774021	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	10.9	50	50	62.5	63.0	103	104	90-110	1	10		
Fluoride	mg/L	0.47	2.5	2.5	3.3	3.3	112	112	90-110	0	10	M1	
Sulfate	mg/L	272	50	50	315	313	87	82	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394955 3394956

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560768007	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	8.7	50	50	59.6	60.9	102	104	90-110	2	10		
Fluoride	mg/L	0.051J	2.5	2.5	2.6	2.7	103	105	90-110	2	10		
Sulfate	mg/L	174	50	50	217	219	88	91	90-110	1	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**

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## QUALIFIERS

Project: MCDONOUGH  
Pace Project No.: 92561195

---

### 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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH

Pace Project No.: 92561195

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560768001	B-62				
92561195001	B-100				
92560768001	B-62	EPA 3010A	648325	EPA 6010D	648333
92561195001	B-100	EPA 3010A	648974	EPA 6010D	649029
92560768001	B-62	EPA 3005A	648326	EPA 6020B	648331
92561195001	B-100	EPA 3005A	648523	EPA 6020B	648596
92560768001	B-62	EPA 7470A	648337	EPA 7470A	648433
92561195001	B-100	EPA 7470A	649459	EPA 7470A	649538
92560768001	B-62	SM 2540C-2011	647027		
92561195001	B-100	SM 2540C-2011	648323		
92560768001	B-62	EPA 300.0 Rev 2.1 1993	647162		
92561195001	B-100	EPA 300.0 Rev 2.1 1993	647237		

### REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville  Eder  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

SCUR Review Worksheet

Client Name:

Georgia Power

Project #

WO#: 92561195



Courier:  Fed Ex  UPS  USPS  Other  Commercial  Parc  Other

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 10/27/20

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Present?  Yes  No  N/A

Thermometer:  B Gun ID: 230 Type of lot:  First  Blue  None

Cooler Temp: 3.4 Correction Factor: Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 3.5

USDA Regulated Soil (  N/A, water sample)  Yes  No

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

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

Field Data Required?  Yes  No

COMMENTS/SAMPLE DISCREPANCY

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Lot ID of SCUR containers: \_\_\_\_\_

CLIENT NOTIFICATION/RESOLUTION

\_\_\_\_\_  
\_\_\_\_\_

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCUR Review: \_\_\_\_\_

Date: \_\_\_\_\_

Project Manager SIF Review: \_\_\_\_\_

Date: \_\_\_\_\_



**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All information must be completed accurately.

<b>Section 1</b> Requester Contact Information	<b>Section 2</b> Requester Physical Information	<b>Section 3</b> Sample Information	<b>Section 4</b> Requester Signature
Requester Name: <u>George Lopez, Construction Director</u> Address: <u>1441 River Road</u> City: <u>Alameda, CA 94501</u> Phone: <u>925-282-1234</u> Email: <u>glopez@construction.com</u> Request Date: <u>11/26/14</u>	Requester Title: <u>Construction Director</u> Requester Address: <u>1441 River Road</u> City: <u>Alameda, CA 94501</u> Requester Phone: <u>925-282-1234</u> Requester Email: <u>glopez@construction.com</u>	Sample ID: <u>1441R-1</u> Sample Description: <u>100g of soil from site</u> Sample Location: <u>1441 River Road</u> Sample Date: <u>11/26/14</u> Sample Time: <u>10:00 AM</u> Sample Quantity: <u>100g</u> Sample Container: <u>Ziploc Bag</u> Sample Storage: <u>Room 100</u>	Requester Signature: _____ Date: _____

ID	Description	Date	Time	Initials	Signature	Title	Organization	Analysis Test		Remarks/Notes (Y/N)
								Y/N	Y/N	
1	100g of soil from site	11/26/14	10:00 AM	[Signature]	[Signature]	Construction Director	1441 River Road	Y	Y	
2	100g of soil from site	11/26/14	10:00 AM	[Signature]	[Signature]	Construction Director	1441 River Road	Y	Y	
3	100g of soil from site	11/26/14	10:00 AM	[Signature]	[Signature]	Construction Director	1441 River Road	Y	Y	
4	100g of soil from site	11/26/14	10:00 AM	[Signature]	[Signature]	Construction Director	1441 River Road	Y	Y	
5	100g of soil from site	11/26/14	10:00 AM	[Signature]	[Signature]	Construction Director	1441 River Road	Y	Y	
6	100g of soil from site	11/26/14	10:00 AM	[Signature]	[Signature]	Construction Director	1441 River Road	Y	Y	
7	100g of soil from site	11/26/14	10:00 AM	[Signature]	[Signature]	Construction Director	1441 River Road	Y	Y	
8	100g of soil from site	11/26/14	10:00 AM	[Signature]	[Signature]	Construction Director	1441 River Road	Y	Y	
9	100g of soil from site	11/26/14	10:00 AM	[Signature]	[Signature]	Construction Director	1441 River Road	Y	Y	
10	100g of soil from site	11/26/14	10:00 AM	[Signature]	[Signature]	Construction Director	1441 River Road	Y	Y	

Jude Wignesspady, Goldier

[Signature]

Date: 11/26/14

Time: 10:00 AM

Initials: JW

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Organization: \_\_\_\_\_

Laboratory receiving samples:

Asheville  Eder  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt:

Client Name: GA Power Project #: \_\_\_\_\_

**WO#: 92561195**

PR: NRG Due Date: 09/24/21  
 CLIENT: GA-GA Power

Carrier:  Commercial  Fed Ex  UPS  USPS  Client  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initial Person Examining Contents: 9/14/21 KPW

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  IR Gun ID: THR214 Type of Ice:  Clean  Blue  None

Cooler Temp: 3.3 Correction Factor: Add/Subtract (°C) -0.1

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

Cooler Temp Corrected (°C): 3.2

USDA Regulated Solid  (water sample)

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

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

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (K72 In JP) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4. 10 Day TAT
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Metric: <u>W</u>	
Headspace in VOA Vials (≥5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

B-100 present, even though it is crossed out on the COC.

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

B-100 on separate project w/ B-62  
near COC's received

Person contacted: Daniela Herrera Date/Time: 9/14/21

Project Manager SCURF Review: \_\_\_\_\_

Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_

Date: \_\_\_\_\_



**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Requester Information	<b>Section B</b> Requester Project Information	<b>Section C</b> Sample Information
Agency: <u>Orange County, Cal. Department of Health</u> Requester: <u>John Wayne Ward</u> Address: <u>Alhambra, CA 91804</u>	Project ID: <u>000-000000</u> Date: <u>08/20/2014</u> Project Name: <u>Food Safety</u>	Sample ID: <u>000-000000</u> Date Collected: <u>08/20/2014</u> Location: <u>Food Storage</u>
Project Start Date: <u>08/20/2014</u> Project End Date: <u>08/20/2014</u>	Project Status: <u>Completed</u> Project Manager: <u>John Wayne Ward</u>	Sample Type: <u>Food</u> Matrix: <u>Food</u> Analyte(s): <u>Salmonella</u>

ITEM #	DESCRIPTION	DATE COLLECTED	LOCATION	TIME	ANALYTES	ANALYSIS BY	DATE	TIME	PRESERVATION				ANALYSIS TEST	LABORATORY	ANALYST	DATE	TIME	REMARKS
									TEMPERATURE	CONTAINER	STORAGE	OTHER						
1	SAMPLE ID See Chain of Custody Form for more details																	
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

**Jude Waguespack / Goldier**

\_\_\_\_\_  
Signature



November 04, 2021

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

RE: Project: MCDONOUGH RADS  
Pace Project No.: 92561190

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 10, 2021 and September 14, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

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

Enclosures

cc: Stephen Benda  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power  
Kristen Jurinko  
J. Shelby Mobley  
Charles Norton, Southern Company  
Ms. Lauren Petty, Southern Company  
Dawn Prell, Golder Associates Inc.  
Tim Richards, Golder Associates - Atlanta



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MCDONOUGH RADS  
Pace Project No.: 92561190

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### Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 04222CA  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
Delaware Certification  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Florida: Cert E871149 SEKS WET  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas/TNI Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA180012  
Louisiana DEQ/TNI Certification #: 4086  
Maine Certification #: 2017020  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572018-1  
New Hampshire/TNI Certification #: 297617  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-010  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: 02867  
Texas/TNI Certification #: T104704188-17-3  
Utah/TNI Certification #: PA014572017-9  
USDA Soil Permit #: P330-17-00091  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 9526  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad  
Wyoming Certification #: 8TMS-L

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: MCDONOUGH RADS  
Pace Project No.: 92561190

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92561190001	B-100	Water	09/13/21 16:55	09/14/21 09:35
92560765001	B-62	Water	09/09/21 15:45	09/10/21 17:40

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH RADS

Pace Project No.: 92561190

---

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92561190001	B-100	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92560765001	B-62	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

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PASI-PA = Pace Analytical Services - Greensburg

### REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH RADS

Pace Project No.: 92561190

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-100</b> <b>Lab ID: 92561190001</b> Collected: 09/13/21 16:55      Received: 09/14/21 09:35      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.116 ± 0.212 (0.482)</b> <b>C:96% T:NA</b>	pCi/L	10/06/21 12:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.658 ± 0.401 (0.741)</b> <b>C:62% T:99%</b>	pCi/L	10/04/21 15:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.774 ± 0.613 (1.22)</b>	pCi/L	10/07/21 15:34	7440-14-4	

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH RADS

Pace Project No.: 92561190

**Sample: B-62**      **Lab ID: 92560765001**      Collected: 09/09/21 15:45      Received: 09/10/21 17:40      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	<b>0.757 ± 0.323 (0.388)</b> <b>C:93% T:NA</b>	pCi/L	10/06/21 08:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.946 ± 0.465 (0.793)</b> <b>C:64% T:86%</b>	pCi/L	10/04/21 14:59	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.70 ± 0.788 (1.18)</b>	pCi/L	10/07/21 15:34	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH RADS

Pace Project No.: 92561190

QC Batch: 466957

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2255015

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0260 ± 0.142 (0.353) C:102% T:NA	pCi/L	10/19/21 08:55	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH RADS

Pace Project No.: 92561190

QC Batch: 465345

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92561190001

METHOD BLANK: 2247073

Matrix: Water

Associated Lab Samples: 92561190001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.306 ± 0.283 (0.572) C:72% T:95%	pCi/L	10/04/21 11:58	

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 RADS

Pace Project No.: 92561190

QC Batch: 465341

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2247067

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.554 ± 0.366 (0.696) C:72% T:88%	pCi/L	09/30/21 11:24	

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.

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH RADS

Pace Project No.: 92561190

QC Batch: 466410

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2252279

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.420 ± 0.367 (0.738) C:65% T:90%	pCi/L	10/07/21 11:22	

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

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH RADS

Pace Project No.: 92561190

QC Batch: 465348

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2247079

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.625 ± 0.317 (0.544) C:74% T:91%	pCi/L	10/06/21 11:18	

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH RADS

Pace Project No.: 92561190

QC Batch: 465347

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92561190001

METHOD BLANK: 2247077

Matrix: Water

Associated Lab Samples: 92561190001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0279 ± 0.217 (0.589) C:92% T:NA	pCi/L	10/06/21 12:00	

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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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: MCDONOUGH RADS

Pace Project No.: 92561190

QC Batch: 465350

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2247083

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0502 ± 0.146 (0.360) C:88% T:NA	pCi/L	10/07/21 08:30	

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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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH RADS

Pace Project No.: 92561190

QC Batch: 465343

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765001

METHOD BLANK: 2247069

Matrix: Water

Associated Lab Samples: 92560765001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.209 ± 0.287 (0.612) C:69% T:89%	pCi/L	10/04/21 11:58	

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 RADS

Pace Project No.: 92561190

QC Batch: 466264

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2251638

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.284 ± 0.229 (0.421) C:95% T:NA	pCi/L	10/08/21 08:00	

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH RADS

Pace Project No.: 92561190

QC Batch: 465344

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92560765001

METHOD BLANK: 2247072

Matrix: Water

Associated Lab Samples: 92560765001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00717 ± 0.168 (0.443) C:96% T:NA	pCi/L	10/06/21 08:19	

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 RADS

Pace Project No.: 92561190

QC Batch: 465342

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2247068

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.189 ± 0.181 (0.337) C:97% T:NA	pCi/L	10/06/21 08:11	

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

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: MCDONOUGH RADS

Pace Project No.: 92561190

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH RADS

Pace Project No.: 92561190

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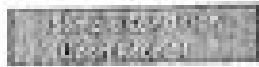
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560765001	B-62	EPA 9315	465344		
92561190001	B-100	EPA 9315	465347		
92560765001	B-62	EPA 9320	465343		
92561190001	B-100	EPA 9320	465345		
92560765001	B-62	Total Radium Calculation	467213		
92561190001	B-100	Total Radium Calculation	467213		

### REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville



Client Name:

Georgia Power

Project #

WO#: 92561190



92561190

Carrier:  
 Commercial

Fed Ex  UPS  USPS  Other  
 Pace  Other

Custody Seal Present?  Yes  No Seal Intact?  Yes  No

Date/Initial Person Examining Contents: AT 9/27/21

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  
 Yes  No  N/A

Thermometer:

N. Que ID:

230

Type of Ice:

Dry  Blue  None

Cooler Temp:

3.1

Correction Factor:  
Add/Subtract (°C)

± 0.1

Temp should be above freezing to 6°C

Samples out of temp. cooler. Samples in ice cooling process has begun.

Cooler Temp Corrected (°C): 3.5

USDA Regulated Soil ( N/A, water sample)

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

Yes  No

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

Comments/Discrepancy:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Both Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	7.
Dissolved analysis: Samples field filtered?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	<u>WT</u>			
Pinchase in VDA Vials (1.5-5mm)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Project Manager SCUR Review: \_\_\_\_\_

Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_

Date: \_\_\_\_\_



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

Page 1 of 1

<b>Section A</b> Requester Name: [Blank] Requester Title: [Blank] Requester Address: [Blank] Requester Phone: [Blank] Requester Email: [Blank]	<b>Section B</b> Requester Organization: [Blank] Requester Address: [Blank] Requester Phone: [Blank] Requester Email: [Blank]	<b>Section C</b> Requester Name: [Blank] Requester Title: [Blank] Requester Address: [Blank] Requester Phone: [Blank] Requester Email: [Blank]	<b>Section D</b> Requester Organization: [Blank] Requester Address: [Blank] Requester Phone: [Blank] Requester Email: [Blank]
---	---	---	---

ITEM #	SAMPLE ID See Chain of Custody Form for details Sample ID must be unique	DATE COLLECTED	TIME COLLECTED	LOCATION OF COLLECTION	# OF CONTAINERS	PRESERVATION							ANALYZE TEST	Y/N	ANALYZED	DATE ANALYZED	TIME ANALYZED	LABORATORY	ANALYST		
						COOL	REFRIG	FREEZE	OTHER	NO PRES	NO PRES	NO PRES								NO PRES	
1	8-10																				
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Jude Wegnespack / Golder

[Signature]

[Date]



Document Name:  
Sample Condition Upon Receipt (SCUR)  
Document No.:  
F-CAR-CS-030-Rev.07

Document Revised: October 28, 2020  
Page 1 of 3  
Issuing Authority:  
Face Analytical Quality Office

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: **92561190**

PR: NMG

Due Date: 10/01/21

CLIENT: GA-GR Power

Carrier:  Commercial  Fed Ex  UPS  USPS  Client  Pace  Other

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initial Person Examining Contents: 9/14/21 KAW

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Yes  No  N/A

Thermometer:

IR Gun ID:

TH2214

Type of Ice:

Dry  Blue  None

Cooler Temp:

3.3

Correction Factor:

-0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C):

3.2

USDA Regulated Solid  DGA, water sample

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

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

Yes  No

	Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 2.
Short Hold Time Analysis (K72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A 3.
Brush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A 4. <u>10 Day TAT</u>
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 6.
-Face Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 8.
Sample Labels Match CDC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 9.
-Includes Date/Time/ID/Analysis Matrix:	<u>W</u>
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

B-100 present, even though it is crossed out on the CDC.

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

B-100 on separate project w/ B-62  
New Lot's received

Person contacted:

Daniela Herrera

Date/Time:

9/15/21 0901

Project Manager SCURF Review:

Date:

Project Manager SRP Review:

Date:



# CHAIN-OF-CUSTODY / Analytical Request Document

This Chain-of-Custody is a LEGAL DOCUMENT. All relevant fees must be completed accurately.

Page: 1 of 1

<b>Section A</b> Requester Name: [Blank] Contact: [Blank] Address: [Blank] City: [Blank] State: [Blank] Zip: [Blank]	<b>Section B</b> Requester Title: [Blank] Organization: [Blank] Address: [Blank] City: [Blank] State: [Blank] Zip: [Blank]	<b>Section C</b> Requester Name: [Blank] Contact: [Blank] Address: [Blank] City: [Blank] State: [Blank] Zip: [Blank]	<b>Section D</b> Requester Title: [Blank] Organization: [Blank] Address: [Blank] City: [Blank] State: [Blank] Zip: [Blank]
--	--	--	--

ITEM #	SAMPLE ID <small>See Procedure on the back of this form. Samples are never to be analyzed.</small>	ANALYSIS REQUESTED <small>See Procedure on the back of this form.</small>	DATE COLLECTED	LOCATION	ANALYST	DATE ANALYZED	PREPARATION				ANALYSIS TEST	DATE RECEIVED	RECEIVED BY	
							WEIGHT	CONTAINER	REMARKS	OTHER				
1	8-10						Preparation	Analysis Test						
2														
3														
4														
5														
6														
7														
8														
9														
10														

**Jude Wagnesspack/ Golder**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



# Quality Control Sample Performance Assessment

Annual Material Inspection Letter for Asphalt Mixtures at Yulee.

Year: 2014  
 Agency: FDOT  
 District: 6B  
 Material: Asphalt

Method/Block	Control	Frequency	Acceptance Criteria	Compliance
Method (Block) Description	Moisture	1-14	1-14	
	Temperature	1-14	1-14	
<p>At least one test result shall be obtained for each sample. All test results shall be within the specified tolerance. If any test results are outside the tolerance, the sample shall be rejected. All test results shall be within the specified tolerance.</p>				
Inspection/Control Sample Description	Moisture	1-14	1-14	
	Temperature	1-14	1-14	
<p>At least one test result shall be obtained for each sample. All test results shall be within the specified tolerance. If any test results are outside the tolerance, the sample shall be rejected. All test results shall be within the specified tolerance.</p>				
Sample Description	Moisture	1-14	1-14	
	Temperature	1-14	1-14	
<p>At least one test result shall be obtained for each sample. All test results shall be within the specified tolerance. If any test results are outside the tolerance, the sample shall be rejected. All test results shall be within the specified tolerance.</p>				
<p>Notes: All test results shall be within the specified tolerance. If any test results are outside the tolerance, the sample shall be rejected. All test results shall be within the specified tolerance.</p>				

FILED  
APR 10 2014

## Quality Control Sample Performance Assessment

Agency: Mississippi State Highway Department

Date: 11/15/68

Sample Identification	Date	Time	Location	Weather	Road	Sample	Remarks
1. <u>Mississippi State Highway Department</u>							
2. <u>Mississippi State Highway Department</u>							
3. <u>Mississippi State Highway Department</u>							
4. <u>Mississippi State Highway Department</u>							
5. <u>Mississippi State Highway Department</u>							
6. <u>Mississippi State Highway Department</u>							
7. <u>Mississippi State Highway Department</u>							
8. <u>Mississippi State Highway Department</u>							
9. <u>Mississippi State Highway Department</u>							
10. <u>Mississippi State Highway Department</u>							
11. <u>Mississippi State Highway Department</u>							
12. <u>Mississippi State Highway Department</u>							
13. <u>Mississippi State Highway Department</u>							
14. <u>Mississippi State Highway Department</u>							
15. <u>Mississippi State Highway Department</u>							
16. <u>Mississippi State Highway Department</u>							
17. <u>Mississippi State Highway Department</u>							
18. <u>Mississippi State Highway Department</u>							
19. <u>Mississippi State Highway Department</u>							
20. <u>Mississippi State Highway Department</u>							
21. <u>Mississippi State Highway Department</u>							
22. <u>Mississippi State Highway Department</u>							
23. <u>Mississippi State Highway Department</u>							
24. <u>Mississippi State Highway Department</u>							
25. <u>Mississippi State Highway Department</u>							
26. <u>Mississippi State Highway Department</u>							
27. <u>Mississippi State Highway Department</u>							
28. <u>Mississippi State Highway Department</u>							
29. <u>Mississippi State Highway Department</u>							
30. <u>Mississippi State Highway Department</u>							
31. <u>Mississippi State Highway Department</u>							
32. <u>Mississippi State Highway Department</u>							
33. <u>Mississippi State Highway Department</u>							
34. <u>Mississippi State Highway Department</u>							
35. <u>Mississippi State Highway Department</u>							
36. <u>Mississippi State Highway Department</u>							
37. <u>Mississippi State Highway Department</u>							
38. <u>Mississippi State Highway Department</u>							
39. <u>Mississippi State Highway Department</u>							
40. <u>Mississippi State Highway Department</u>							
41. <u>Mississippi State Highway Department</u>							
42. <u>Mississippi State Highway Department</u>							
43. <u>Mississippi State Highway Department</u>							
44. <u>Mississippi State Highway Department</u>							
45. <u>Mississippi State Highway Department</u>							
46. <u>Mississippi State Highway Department</u>							
47. <u>Mississippi State Highway Department</u>							
48. <u>Mississippi State Highway Department</u>							
49. <u>Mississippi State Highway Department</u>							
50. <u>Mississippi State Highway Department</u>							

Signature: \_\_\_\_\_ Date: 11/15/68

Mississippi State Highway Department  
 Department of Transportation

Mississippi State Highway Department  
 Department of Transportation





# Quality Control Sample Performance Assessment

Additional Manual Methods for All Fields Multiplied in Yellow.

TUO 4,100  
AVP 3,100  
Clerk 1,100  
19,100  
60,000  
71,000

Manual Sample Assessment	Sample Size	Sample Count
AVP Sample	3,100	1,300
TUO Sample	4,100	1,300
Clerk Sample	1,100	1,300
19,100 Sample	19,100	1,300
60,000 Sample	60,000	1,300
71,000 Sample	71,000	1,300

Manual Sample Assessment	Sample Size	Sample Count	% of Total
TUO Sample	4,100	1,300	31.7%
AVP Sample	3,100	1,300	41.9%
Clerk Sample	1,100	1,300	118.2%
19,100 Sample	19,100	1,300	6.8%
60,000 Sample	60,000	1,300	2.2%
71,000 Sample	71,000	1,300	1.8%
Total	109,400	6,800	6.2%

Manual Sample Assessment	Sample Size	Sample Count	% of Total
TUO Sample	4,100	1,300	31.7%
AVP Sample	3,100	1,300	41.9%
Clerk Sample	1,100	1,300	118.2%
19,100 Sample	19,100	1,300	6.8%
60,000 Sample	60,000	1,300	2.2%
71,000 Sample	71,000	1,300	1.8%
Total	109,400	6,800	6.2%

All manual methods are multipliable. All manual methods are listed in the Manual Sample Assessment.

Additional Manual Methods for All Fields Multiplied in Yellow.

Manual Sample Assessment	Sample Size	Sample Count	% of Total
TUO Sample	4,100	1,300	31.7%
AVP Sample	3,100	1,300	41.9%
Clerk Sample	1,100	1,300	118.2%
19,100 Sample	19,100	1,300	6.8%
60,000 Sample	60,000	1,300	2.2%
71,000 Sample	71,000	1,300	1.8%
Total	109,400	6,800	6.2%

Manual Sample Assessment	Sample Size	Sample Count	% of Total
TUO Sample	4,100	1,300	31.7%
AVP Sample	3,100	1,300	41.9%
Clerk Sample	1,100	1,300	118.2%
19,100 Sample	19,100	1,300	6.8%
60,000 Sample	60,000	1,300	2.2%
71,000 Sample	71,000	1,300	1.8%
Total	109,400	6,800	6.2%

APPROVED (Signature)

### Quality Control Sample Performance Assessment

Project Name: **Water Meter Accuracy Assessment of Meter**

Parameter	Unit	Value	Notes
Flow Rate	gpm	1.5	
Pressure	psi	45	
Temperature	F	65	
Water Quality	mg/L	100	
Flow Accuracy	%	98	
Pressure Accuracy	%	99	
Temperature Accuracy	%	99	
Water Quality Accuracy	%	99	

Parameter	Unit	Value	Notes
Flow Rate	gpm	1.5	
Pressure	psi	45	
Temperature	F	65	
Water Quality	mg/L	100	
Flow Accuracy	%	98	
Pressure Accuracy	%	99	
Temperature Accuracy	%	99	
Water Quality Accuracy	%	99	

Flow rate is within 2% of target value. Pressure is within 1% of target value. Temperature is within 1% of target value. Water quality is within 1% of target value. Flow accuracy is 98%. Pressure accuracy is 99%. Temperature accuracy is 99%. Water quality accuracy is 99%.

Flow rate is within 2% of target value. Pressure is within 1% of target value. Temperature is within 1% of target value. Water quality is within 1% of target value. Flow accuracy is 98%. Pressure accuracy is 99%. Temperature accuracy is 99%. Water quality accuracy is 99%.

10/10/2010 10:10:10 AM

10/10/2010 10:10:10 AM



September 17, 2021

Kelley Sharpe  
ARCADIS - Atlanta  
2839 Paces Ferry Rd  
STE 900  
Atlanta, GA 30339

RE: Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92559852

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on September 08, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Maiya Parks  
maiya.parks@pacelabs.com  
(770)734-4200  
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR  
Ben Hodges, Georgia Power  
Warren Johnson, ARCADIS - Atlanta



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## CERTIFICATIONS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92559852

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### **Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

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### **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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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92559852

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92559852001	CR+0.4	Water	09/07/21 14:56	09/08/21 12:45
92559852002	CR+0.2	Water	09/07/21 15:03	09/08/21 12:45
92559852003	CR-0.1	Water	09/07/21 15:08	09/08/21 12:45
92559852004	DW_DS	Water	09/07/21 15:10	09/08/21 12:45
92559852005	DW_US	Water	09/07/21 15:18	09/08/21 12:45
92559852006	CR-0.2	Water	09/07/21 15:23	09/08/21 12:45
92559852007	CR-0.5	Water	09/07/21 15:29	09/08/21 12:45

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**SAMPLE ANALYTE COUNT**

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92559852

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92559852001	CR+0.4	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	4	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92559852002	CR+0.2	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	4	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92559852003	CR-0.1	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92559852004	DW_DS	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92559852005	DW_US	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92559852006	CR-0.2	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	4	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92559852007	CR-0.5	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	4	PASI-GA
		SM 2540C-2011	ALW	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

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

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### ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92559852

Sample: CR+0.4	Lab ID: 92559852001	Collected: 09/07/21 14:56	Received: 09/08/21 12:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	3.4	mg/L	0.20	1	09/09/21 11:55	09/09/21 19:05	7440-09-7	
Sodium	10.0	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:05	7440-23-5	
Calcium	6.7	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:05	7440-70-2	
Magnesium	2.9	mg/L	0.050	1	09/09/21 11:55	09/09/21 19:05	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:13	7440-38-2	
Boron	ND	mg/L	0.040	1	09/09/21 11:50	09/09/21 22:13	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:13	7440-48-4	
Molybdenum	ND	mg/L	0.010	1	09/09/21 11:50	09/09/21 22:13	7439-98-7	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	77.0	mg/L	10.0	1		09/09/21 19:53		
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	26.6	mg/L	5.0	1		09/10/21 15:45		
Alkalinity, Total as CaCO <sub>3</sub>	26.6	mg/L	5.0	1		09/10/21 15:45		
<b>300.0 IC Anions 28 Days</b>								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	9.9	mg/L	1.0	1		09/09/21 22:25	16887-00-6	
Fluoride	0.14	mg/L	0.10	1		09/09/21 22:25	16984-48-8	
Sulfate	7.0	mg/L	1.0	1		09/09/21 22:25	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond  
 Pace Project No.: 92559852

Sample: CR+0.2		Lab ID: 92559852002		Collected: 09/07/21 15:03	Received: 09/08/21 12:45	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Potassium	3.3	mg/L	0.20	1	09/09/21 11:55	09/09/21 19:09	7440-09-7	
Sodium	9.9	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:09	7440-23-5	
Calcium	6.6	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:09	7440-70-2	
Magnesium	2.7	mg/L	0.050	1	09/09/21 11:55	09/09/21 19:09	7439-95-4	
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Arsenic	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:19	7440-38-2	
Boron	ND	mg/L	0.040	1	09/09/21 11:50	09/09/21 22:19	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:19	7440-48-4	
Molybdenum	ND	mg/L	0.010	1	09/09/21 11:50	09/09/21 22:19	7439-98-7	
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	73.0	mg/L	10.0	1		09/09/21 19:53		
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville						
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	26.9	mg/L	5.0	1		09/10/21 15:50		
Alkalinity, Total as CaCO <sub>3</sub>	26.9	mg/L	5.0	1		09/10/21 15:50		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville						
Chloride	9.7	mg/L	1.0	1		09/09/21 22:45	16887-00-6	
Fluoride	0.14	mg/L	0.10	1		09/09/21 22:45	16984-48-8	
Sulfate	6.4	mg/L	1.0	1		09/09/21 22:45	14808-79-8	M1

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### ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92559852

Sample: CR-0.1	Lab ID: 92559852003	Collected: 09/07/21 15:08	Received: 09/08/21 12:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	3.2	mg/L	0.20	1	09/09/21 11:55	09/09/21 19:14	7440-09-7	
Sodium	9.4	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:14	7440-23-5	
Calcium	6.6	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:14	7440-70-2	
Magnesium	2.7	mg/L	0.050	1	09/09/21 11:55	09/09/21 19:14	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	09/09/21 11:50	09/09/21 22:36	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:36	7440-48-4	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	78.0	mg/L	10.0	1		09/09/21 19:54		
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	26.8	mg/L	5.0	1		09/10/21 15:56		
Alkalinity, Total as CaCO <sub>3</sub>	26.8	mg/L	5.0	1		09/10/21 15:56		
<b>300.0 IC Anions 28 Days</b>								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	9.8	mg/L	1.0	1		09/09/21 23:51	16887-00-6	
Fluoride	0.14	mg/L	0.10	1		09/09/21 23:51	16984-48-8	
Sulfate	8.0	mg/L	1.0	1		09/09/21 23:51	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92559852

Sample: DW_DS	Lab ID: 92559852004	Collected: 09/07/21 15:10	Received: 09/08/21 12:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	3.2	mg/L	0.20	1	09/09/21 11:55	09/09/21 19:19	7440-09-7	
Sodium	9.6	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:19	7440-23-5	
Calcium	7.3	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:19	7440-70-2	
Magnesium	2.9	mg/L	0.050	1	09/09/21 11:55	09/09/21 19:19	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	09/09/21 11:50	09/09/21 22:41	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:41	7440-48-4	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	83.0	mg/L	10.0	1		09/09/21 19:54		
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	26.4	mg/L	5.0	1		09/10/21 16:02		
Alkalinity, Total as CaCO <sub>3</sub>	26.4	mg/L	5.0	1		09/10/21 16:02		
<b>300.0 IC Anions 28 Days</b>								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	9.8	mg/L	1.0	1		09/10/21 00:16	16887-00-6	
Fluoride	0.14	mg/L	0.10	1		09/10/21 00:16	16984-48-8	
Sulfate	10.4	mg/L	1.0	1		09/10/21 00:16	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92559852

Sample: DW_US	Lab ID: 92559852005	Collected: 09/07/21 15:18	Received: 09/08/21 12:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	3.4	mg/L	0.20	1	09/09/21 11:55	09/09/21 19:24	7440-09-7	
Sodium	10.1	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:24	7440-23-5	
Calcium	6.7	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:24	7440-70-2	
Magnesium	2.8	mg/L	0.050	1	09/09/21 11:55	09/09/21 19:24	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	0.073	mg/L	0.040	1	09/09/21 11:50	09/09/21 22:47	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:47	7440-48-4	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	82.0	mg/L	10.0	1		09/09/21 19:54		
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	28.0	mg/L	5.0	1		09/10/21 16:27		
Alkalinity, Total as CaCO <sub>3</sub>	28.0	mg/L	5.0	1		09/10/21 16:27		
<b>300.0 IC Anions 28 Days</b>								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	9.9	mg/L	1.0	1		09/10/21 01:37	16887-00-6	
Fluoride	0.14	mg/L	0.10	1		09/10/21 01:37	16984-48-8	
Sulfate	6.5	mg/L	1.0	1		09/10/21 01:37	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92559852

Sample: CR-0.2	Lab ID: 92559852006	Collected: 09/07/21 15:23	Received: 09/08/21 12:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	3.3	mg/L	0.20	1	09/09/21 11:55	09/09/21 19:28	7440-09-7	
Sodium	9.7	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:28	7440-23-5	
Calcium	6.6	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:28	7440-70-2	
Magnesium	2.8	mg/L	0.050	1	09/09/21 11:55	09/09/21 19:28	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:53	7440-38-2	
Boron	0.046	mg/L	0.040	1	09/09/21 11:50	09/09/21 22:53	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:53	7440-48-4	
Selenium	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:53	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	77.0	mg/L	10.0	1		09/13/21 17:34		
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	27.5	mg/L	5.0	1		09/10/21 16:33		
Alkalinity, Total as CaCO <sub>3</sub>	27.5	mg/L	5.0	1		09/10/21 16:33		
<b>300.0 IC Anions 28 Days</b>								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	9.8	mg/L	1.0	1		09/10/21 01:53	16887-00-6	
Fluoride	0.13	mg/L	0.10	1		09/10/21 01:53	16984-48-8	
Sulfate	7.3	mg/L	1.0	1		09/10/21 01:53	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92559852

Sample: CR-0.5	Lab ID: 92559852007	Collected: 09/07/21 15:29	Received: 09/08/21 12:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	3.1	mg/L	0.20	1	09/09/21 11:55	09/09/21 19:33	7440-09-7	
Sodium	9.2	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:33	7440-23-5	
Calcium	6.5	mg/L	1.0	1	09/09/21 11:55	09/09/21 19:33	7440-70-2	
Magnesium	2.6	mg/L	0.050	1	09/09/21 11:55	09/09/21 19:33	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:59	7440-38-2	
Boron	ND	mg/L	0.040	1	09/09/21 11:50	09/09/21 22:59	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:59	7440-48-4	
Selenium	ND	mg/L	0.0050	1	09/09/21 11:50	09/09/21 22:59	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	75.0	mg/L	10.0	1		09/13/21 17:34		
<b>2320B Alkalinity</b>								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	27.1	mg/L	5.0	1		09/10/21 16:48		
Alkalinity, Total as CaCO <sub>3</sub>	27.1	mg/L	5.0	1		09/10/21 16:48		
<b>300.0 IC Anions 28 Days</b>								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	9.6	mg/L	1.0	1		09/10/21 02:09	16887-00-6	
Fluoride	0.14	mg/L	0.10	1		09/10/21 02:09	16984-48-8	
Sulfate	6.3	mg/L	1.0	1		09/10/21 02:09	14808-79-8	

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**QUALITY CONTROL DATA**

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92559852

QC Batch: 645863 Analysis Method: EPA 6010D  
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92559852001, 92559852002, 92559852003, 92559852004, 92559852005, 92559852006, 92559852007

METHOD BLANK: 3387833 Matrix: Water  
 Associated Lab Samples: 92559852001, 92559852002, 92559852003, 92559852004, 92559852005, 92559852006, 92559852007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	09/09/21 16:55	
Magnesium	mg/L	ND	0.050	09/09/21 16:55	
Potassium	mg/L	ND	0.20	09/09/21 16:55	
Sodium	mg/L	ND	1.0	09/09/21 16:55	

LABORATORY CONTROL SAMPLE: 3387834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	105	80-120	
Magnesium	mg/L	1	1.1	106	80-120	
Potassium	mg/L	1	1.1	105	80-120	
Sodium	mg/L	1	1.1	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3387835 3387836

Parameter	Units	92558259003 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	11.0	1	1	12.0	12.1	103	112	75-125	1	20	
Magnesium	mg/L	36.1	1	1	37.0	36.6	92	43	75-125	1	20 M1	
Potassium	mg/L	6.1	1	1	7.1	7.0	102	90	75-125	2	20	
Sodium	mg/L	24.9	1	1	25.9	25.3	101	40	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.: 92559852

QC Batch:	645868	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92559852001, 92559852002, 92559852003, 92559852004, 92559852005, 92559852006, 92559852007

METHOD BLANK: 3387883 Matrix: Water  
 Associated Lab Samples: 92559852001, 92559852002, 92559852003, 92559852004, 92559852005, 92559852006, 92559852007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	09/09/21 20:18	
Boron	mg/L	ND	0.040	09/09/21 20:18	
Cobalt	mg/L	ND	0.0050	09/09/21 20:18	
Molybdenum	mg/L	ND	0.010	09/09/21 20:18	
Selenium	mg/L	ND	0.0050	09/09/21 20:18	

LABORATORY CONTROL SAMPLE: 3387884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.11	107	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3387885 3387886

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92558259007 Result	Spike Conc.	Spike Conc.	Result						
Arsenic	mg/L	0.0013J	0.1	0.1	0.098	0.098	97	97	75-125	0	20
Boron	mg/L	6.1	1	1	7.4	7.1	131	100	75-125	4	20 M1
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	0.11	0.11	110	106	75-125	4	20
Selenium	mg/L	0.060	0.1	0.1	0.15	0.16	92	95	75-125	2	20

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**QUALITY CONTROL DATA**

Project: Plant McDonough CCR-Ash Pond  
 Pace Project No.: 92559852

QC Batch: 646143 Analysis Method: SM 2540C-2011  
 QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92559852001, 92559852002, 92559852003, 92559852004, 92559852005

METHOD BLANK: 3389158 Matrix: Water  
 Associated Lab Samples: 92559852001, 92559852002, 92559852003, 92559852004, 92559852005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/09/21 19:50	

LABORATORY CONTROL SAMPLE: 3389159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	90-111	

SAMPLE DUPLICATE: 3389160

Parameter	Units	92560175001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	106000	138000	26	10	D6

SAMPLE DUPLICATE: 3389161

Parameter	Units	92559795003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	43.0	114	90	10	D6

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**QUALITY CONTROL DATA**

Project: Plant McDonough CCR-Ash Pond  
 Pace Project No.: 92559852

QC Batch: 646764 Analysis Method: SM 2540C-2011  
 QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92559852006, 92559852007

METHOD BLANK: 3392639 Matrix: Water  
 Associated Lab Samples: 92559852006, 92559852007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/13/21 17:34	

LABORATORY CONTROL SAMPLE: 3392640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	410	102	90-111	

SAMPLE DUPLICATE: 3392641

Parameter	Units	92560619001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	506	546	8	10	

SAMPLE DUPLICATE: 3392642

Parameter	Units	92560079008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	70.0	91.0	26	10	D6

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**QUALITY CONTROL DATA**

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92559852

QC Batch: 646357 Analysis Method: SM 2320B-2011  
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Asheville  
 Associated Lab Samples: 92559852001, 92559852002, 92559852003, 92559852004, 92559852005, 92559852006, 92559852007

METHOD BLANK: 3390316 Matrix: Water  
 Associated Lab Samples: 92559852001, 92559852002, 92559852003, 92559852004, 92559852005, 92559852006, 92559852007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	09/10/21 13:46	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	09/10/21 13:46	

LABORATORY CONTROL SAMPLE: 3390317

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.2	104	80-120	

LABORATORY CONTROL SAMPLE: 3390318

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: 3390319 3390320

Parameter	Units	92559814001 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	60.1	50	50	109	111	98	101	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3390321 3390322

Parameter	Units	92559852004 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	26.4	50	50	77.2	78.1	102	103	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.: 92559852

QC Batch: 646085 Analysis Method: EPA 300.0 Rev 2.1 1993  
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
 Laboratory: Pace Analytical Services - Asheville  
 Associated Lab Samples: 92559852001, 92559852002, 92559852003, 92559852004, 92559852005, 92559852006, 92559852007

METHOD BLANK: 3388761 Matrix: Water  
 Associated Lab Samples: 92559852001, 92559852002, 92559852003, 92559852004, 92559852005, 92559852006, 92559852007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	09/09/21 17:24	
Fluoride	mg/L	ND	0.10	09/09/21 17:24	
Sulfate	mg/L	ND	1.0	09/09/21 17:24	

LABORATORY CONTROL SAMPLE: 3388762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.8	100	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3388763 3388764

Parameter	Units	92559773002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	34.7	50	50	87.2	87.7	105	106	90-110	1	10	
Fluoride	mg/L	0.61	2.5	2.5	3.3	3.3	107	106	90-110	1	10	
Sulfate	mg/L	135	50	50	184	184	98	99	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3388765 3388766

Parameter	Units	92559852002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9.7	50	50	62.5	63.9	106	108	90-110	2	10	
Fluoride	mg/L	0.14	2.5	2.5	2.7	2.8	102	105	90-110	3	10	
Sulfate	mg/L	6.4	50	50	61.0	62.2	109	112	90-110	2	10 M1	

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## QUALIFIERS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92559852

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92559852

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92559852001	CR+0.4	EPA 3010A	645863	EPA 6010D	646176
92559852002	CR+0.2	EPA 3010A	645863	EPA 6010D	646176
92559852003	CR-0.1	EPA 3010A	645863	EPA 6010D	646176
92559852004	DW_DS	EPA 3010A	645863	EPA 6010D	646176
92559852005	DW_US	EPA 3010A	645863	EPA 6010D	646176
92559852006	CR-0.2	EPA 3010A	645863	EPA 6010D	646176
92559852007	CR-0.5	EPA 3010A	645863	EPA 6010D	646176
92559852001	CR+0.4	EPA 3005A	645868	EPA 6020B	646190
92559852002	CR+0.2	EPA 3005A	645868	EPA 6020B	646190
92559852003	CR-0.1	EPA 3005A	645868	EPA 6020B	646190
92559852004	DW_DS	EPA 3005A	645868	EPA 6020B	646190
92559852005	DW_US	EPA 3005A	645868	EPA 6020B	646190
92559852006	CR-0.2	EPA 3005A	645868	EPA 6020B	646190
92559852007	CR-0.5	EPA 3005A	645868	EPA 6020B	646190
92559852001	CR+0.4	SM 2540C-2011	646143		
92559852002	CR+0.2	SM 2540C-2011	646143		
92559852003	CR-0.1	SM 2540C-2011	646143		
92559852004	DW_DS	SM 2540C-2011	646143		
92559852005	DW_US	SM 2540C-2011	646143		
92559852006	CR-0.2	SM 2540C-2011	646764		
92559852007	CR-0.5	SM 2540C-2011	646764		
92559852001	CR+0.4	SM 2320B-2011	646357		
92559852002	CR+0.2	SM 2320B-2011	646357		
92559852003	CR-0.1	SM 2320B-2011	646357		
92559852004	DW_DS	SM 2320B-2011	646357		
92559852005	DW_US	SM 2320B-2011	646357		
92559852006	CR-0.2	SM 2320B-2011	646357		
92559852007	CR-0.5	SM 2320B-2011	646357		
92559852001	CR+0.4	EPA 300.0 Rev 2.1 1993	646085		
92559852002	CR+0.2	EPA 300.0 Rev 2.1 1993	646085		
92559852003	CR-0.1	EPA 300.0 Rev 2.1 1993	646085		
92559852004	DW_DS	EPA 300.0 Rev 2.1 1993	646085		
92559852005	DW_US	EPA 300.0 Rev 2.1 1993	646085		
92559852006	CR-0.2	EPA 300.0 Rev 2.1 1993	646085		
92559852007	CR-0.5	EPA 300.0 Rev 2.1 1993	646085		

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# CHAIN-OF-CUSTODY / Analytical Request Worksheet

The Chain of Custody is a legal document. All relevant fields must be completed accurately.

*Revised*

## Section A

**Requesting Agency:** State Police  
**Requesting Agency Name:** State Police  
**Requesting Agency Address:** 1234 Main St  
**Requesting Agency City:** Springfield  
**Requesting Agency State:** IL  
**Requesting Agency Zip:** 62701  
**Requesting Agency Contact:** John Smith  
**Requesting Agency Phone:** 618-555-1234  
**Requesting Agency Fax:** 618-555-5678  
**Requesting Agency Email:** john.smith@statepolice.org  
**Requesting Agency Website:** www.statepolice.org  
**Requesting Agency Mission:** Enforce the law and protect the public  
**Requesting Agency Type:** Law Enforcement  
**Requesting Agency Accreditation:** IL State Police Accredited  
**Requesting Agency Certification:** IL State Police Certified  
**Requesting Agency License:** IL State Police Licensed  
**Requesting Agency Registration:** IL State Police Registered  
**Requesting Agency Insurance:** IL State Police Insured  
**Requesting Agency Bond:** IL State Police Bonded

**Section B**

**Sample ID**  
**Sample Description**  
**Sample Location**  
**Sample Collection Date**  
**Sample Collection Time**  
**Sample Collection Method**  
**Sample Collection Agency**  
**Sample Collection Person**  
**Sample Collection Address**  
**Sample Collection City**  
**Sample Collection State**  
**Sample Collection Zip**

Lab #	Description	Collected		Analysis Test		Remarks
		Date	Time	Test	Result	
1	GE + O.4	10/20/2011	10:00 AM	GC/MS	Cocaine	
2	GR + O.2	10/20/2011	10:00 AM	GC/MS	Cocaine	
3	GE - O.1	10/20/2011	10:00 AM	GC/MS	Cocaine	
4	DM - D3	10/20/2011	10:00 AM	GC/MS	Cocaine	
5	DM - U5	10/20/2011	10:00 AM	GC/MS	Cocaine	
6	GR - O.2	10/20/2011	10:00 AM	GC/MS	Cocaine	
7	GR - O.5	10/20/2011	10:00 AM	GC/MS	Cocaine	
8						
9						
10						
11						
12						

**Section C**

**Requesting Agency Name:** State Police  
**Requesting Agency Address:** 1234 Main St  
**Requesting Agency City:** Springfield  
**Requesting Agency State:** IL  
**Requesting Agency Zip:** 62701  
**Requesting Agency Contact:** John Smith  
**Requesting Agency Phone:** 618-555-1234  
**Requesting Agency Fax:** 618-555-5678  
**Requesting Agency Email:** john.smith@statepolice.org  
**Requesting Agency Website:** www.statepolice.org  
**Requesting Agency Mission:** Enforce the law and protect the public  
**Requesting Agency Type:** Law Enforcement  
**Requesting Agency Accreditation:** IL State Police Accredited  
**Requesting Agency Certification:** IL State Police Certified  
**Requesting Agency License:** IL State Police Licensed  
**Requesting Agency Registration:** IL State Police Registered  
**Requesting Agency Insurance:** IL State Police Insured  
**Requesting Agency Bond:** IL State Police Bonded

**MOH: 92559852**



Page 20 of 22



Document Name

Document Number: Oct 2018 4540

Sample Collection Upon Receipt (SCLR)

Page 2 of 2

Document No

Sampling Method

PC-148-03-03-Rev 07

Pace Analytical Quality Control

Lab: A user receiving samples:

Atlanta  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Temp: 50.0  
Date: 10/15/21

Client Name:

*Accardi's*

Project #:

**WO#: 92559852**

PN: NP

Run Date: 10/15/21

CLIENT: OR-46-00001

Container:  Commercial  Food  Milk  Juice  Other

Capacity:  1.5L  2.0L  1.0L  1.0L  1.0L

Preserving Method:  Submerge  Icepack Bag  Other  Other

Thermometer:  Touch  214  214  214

Container Temp: 16 Correct Use Factor: 1.5 Add Factor (1%): 0.1

Container Temp (Sampling) (°C): 16

USDA Registered Soil:  Yes, enter number

Do samples originate in a jurisdiction (state) within the United States (CA, HI, or DC) (check box)?

Yes  No

Temp should be above freezing to 5°C    
  Remove out of the container. Samples on ice cooling process too long.

Do samples originate from a foreign source (international) including import (check box)?  Yes  No

Container/Seal Integrity:

Container Integrity (Sealed)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not	1
Leakage at Time of Receipt (Cold Temp)?	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Not	2
Drain Date Time Analysis (12 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not	3
Flush Date (around Time Receipt)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not	4
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not	5
Correct Container Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not	6
# of Containers Used?	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	7
Correct Insulation?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not	8
Original analysis Samples from (check)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not	9
Large Volume Multi (CC)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not	10
Analysis Date/Time/CC/Analysis Method				11
Needles in vial (check/label)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not	12
Top Seal Intact?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not	13
The vial/Container (Seal) Intact?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not	14

DO NOT REUSE THIS ORIGINAL FORM New label required?  Yes  No

CLIENT AND/OR LABORATORY RESOLUTION

Personnel Initials \_\_\_\_\_ Date/Time \_\_\_\_\_

Project Manager SCLR Review \_\_\_\_\_ Date \_\_\_\_\_

Project Manager JUS Review \_\_\_\_\_ Date \_\_\_\_\_



Document Name: Sample Collection Open Inventory (SCLOR)

Document Revised: October 28, 2020  
Page 2 of 2

Document No: P-CLM-OI-SCLOR-Rev02

Managing Laboratory: Pace Cardinaline Quality Office

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

Project #

WON: 92559852

PRN:            Due Date: 10/15/21

CLINT:           

Locations: YQM, Cottleville, ROC, OI and Green. OIG#7003 to be used; ROC, LMg

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

Method	1000-1100 mg Sample (mg/L) (P)	1000-1500 mg Sample (mg/L) (P)	1000-2000 mg Sample (mg/L) (P)	2000-2500 mg Sample (mg/L) (P)	2500-3000 mg Sample (mg/L) (P)	3000-3500 mg Sample (mg/L) (P)	3500-4000 mg Sample (mg/L) (P)	4000-4500 mg Sample (mg/L) (P)	4500-5000 mg Sample (mg/L) (P)	5000-5500 mg Sample (mg/L) (P)	5500-6000 mg Sample (mg/L) (P)	6000-6500 mg Sample (mg/L) (P)	6500-7000 mg Sample (mg/L) (P)	7000-7500 mg Sample (mg/L) (P)	7500-8000 mg Sample (mg/L) (P)	8000-8500 mg Sample (mg/L) (P)	8500-9000 mg Sample (mg/L) (P)	9000-9500 mg Sample (mg/L) (P)	9500-10000 mg Sample (mg/L) (P)	

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservation	pH before added	Date preservation adjusted	Time preservation adjusted	Amount of Preservation added	Lot #

Please note: There is a risk of improper pH adjustment if you use the wrong amount of acid. The amount of acid is listed on the label of the bottle. Use the correct amount of acid. Do not use more or less acid than what is listed on the label. Use the correct amount of acid. Do not use more or less acid than what is listed on the label.



**APPENDIX B**

**Analytical Results**  
**January 2022**



March 03, 2022

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

RE: Project: MCDONOUGH UPGRADIENT  
Pace Project No.: 92583603

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between January 20, 2022 and January 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 - Charlotte
- Pace Analytical Services - Peachtree Corners, GA
- Pace Analytical Services - Minneapolis

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

Sincerely,

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

Enclosures

cc: Stephen Benda  
Anna Bottum, ERM  
Andrea Brazell, ERM  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power  
Kristen Jurinko  
J. Shelby Mobley  
Charles Norton, Southern Company  
Ms. Lauren Petty, Southern Company

Dawn Prell, Golder Associates Inc.  
Tim Richards, Golder Associates - Atlanta  
Lacy Smith, ERM  
Caitlin Tillema, ERM  
Christine Weaver, ERM



### REPORT OF LABORATORY ANALYSIS

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### CERTIFICATIONS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

#### Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414  
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

- A2LA Certification #: 2926.01\*
- Alabama Certification #: 40770
- Alaska Contaminated Sites Certification #: 17-009\*
- Alaska DW Certification #: MN00064
- Arizona Certification #: AZ0014\*
- Arkansas DW Certification #: MN00064
- Arkansas WW Certification #: 88-0680
- California Certification #: 2929
- Colorado Certification #: MN00064
- Connecticut Certification #: PH-0256
- EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
- Florida Certification #: E87605\*
- Georgia Certification #: 959
- Hawaii Certification #: MN00064
- Idaho Certification #: MN00064
- Illinois Certification #: 200011
- Indiana Certification #: C-MN-01
- Iowa Certification #: 368
- Kansas Certification #: E-10167
- Kentucky DW Certification #: 90062
- Kentucky WW Certification #: 90062
- Louisiana DEQ Certification #: AI-03086\*
- Louisiana DW Certification #: MN00064
- Maine Certification #: MN00064\*
- Maryland Certification #: 322
- Michigan Certification #: 9909
- Minnesota Certification #: 027-053-137\*
- Minnesota Dept of Ag Approval: via MN 027-053-137
- Minnesota Petrofund Registration #: 1240\*
- Mississippi Certification #: MN00064

- Missouri Certification #: 10100
  - Montana Certification #: CERT0092
  - Nebraska Certification #: NE-OS-18-06
  - Nevada Certification #: MN00064
  - New Hampshire Certification #: 2081\*
  - New Jersey Certification #: MN002
  - New York Certification #: 11647\*
  - North Carolina DW Certification #: 27700
  - North Carolina WW Certification #: 530
  - North Dakota Certification #: R-036
  - Ohio DW Certification #: 41244
  - Ohio VAP Certification (1700) #: CL101
  - Ohio VAP Certification (1800) #: CL110\*
  - Oklahoma Certification #: 9507\*
  - Oregon Primary Certification #: MN300001
  - Oregon Secondary Certification #: MN200001\*
  - Pennsylvania Certification #: 68-00563\*
  - Puerto Rico Certification #: MN00064
  - South Carolina Certification #:74003001
  - Tennessee Certification #: TN02818
  - Texas Certification #: T104704192\*
  - Utah Certification #: MN00064\*
  - Vermont Certification #: VT-027053137
  - Virginia Certification #: 460163\*
  - Washington Certification #: C486\*
  - West Virginia DEP Certification #: 382
  - West Virginia DW Certification #: 9952 C
  - Wisconsin Certification #: 999407970
  - Wyoming UST Certification #: via A2LA 2926.01
  - USDA Permit #: P330-19-00208
- \*Please Note: Applicable air certifications are denoted with an asterisk (\*).

#### Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006  
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
South Carolina Laboratory ID: 99006

- South Carolina Certification #: 99006001
- South Carolina Drinking Water Cert. #: 99006003
- Florida/NELAP Certification #: E87627
- Kentucky UST Certification #: 84
- Louisiana DoH Drinking Water #: LA029
- Virginia/VELAP Certification #: 460221

#### Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804  
Florida/NELAP Certification #: E87648  
North Carolina Drinking Water Certification #: 37712  
North Carolina Wastewater Certification #: 40

- South Carolina Laboratory ID: 99030
- South Carolina Certification #: 99030001
- Virginia/VELAP Certification #: 460222

#### Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092  
Florida DOH Certification #: E87315

- Georgia DW Inorganics Certification #: 812
- North Carolina Certification #: 381

### REPORT OF LABORATORY ANALYSIS

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## **CERTIFICATIONS**

Project: MCDONOUGH UPGRADIENT  
Pace Project No.: 92583603

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**Pace Analytical Services Peachtree Corners**  
South Carolina Certification #: 98011001

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## **REPORT OF LABORATORY ANALYSIS**

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### SAMPLE SUMMARY

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92583603001	DGWA-70A	Water	01/18/22 16:35	01/20/22 08:45
92583603002	DGWA-71	Water	01/18/22 16:25	01/20/22 08:45
92583603003	DGWA-53	Water	01/28/22 10:09	01/28/22 15:32

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH UPGRADIENT  
 Pace Project No.: 92583603

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583603001	DGWA-70A	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583603002	DGWA-71	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583603003	DGWA-53	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville  
 PASI-C = Pace Analytical Services - Charlotte  
 PASI-GA = Pace Analytical Services - Peachtree Corners, GA  
 PASI-M = Pace Analytical Services - Minneapolis

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

**Sample: DGWA-70A**      **Lab ID: 92583603001**      Collected: 01/18/22 16:35      Received: 01/20/22 08:45      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/20/22 13:59		
pH	<b>5.50</b>	Std. Units			1		01/20/22 13:59		

**6010D ATL ICP**

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

Potassium	<b>1.7</b>	mg/L	0.20	0.15	1	01/25/22 09:10	01/25/22 16:06	7440-09-7	
Sodium	<b>3.5</b>	mg/L	1.0	0.58	1	01/25/22 09:10	01/25/22 16:06	7440-23-5	
Calcium	<b>6.1</b>	mg/L	1.0	0.12	1	01/25/22 09:10	01/25/22 16:06	7440-70-2	
Magnesium	<b>2.4</b>	mg/L	0.050	0.012	1	01/25/22 09:10	01/25/22 16:06	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	01/25/22 09:49	01/25/22 20:20	7440-36-0	
Arsenic	<b>0.0046J</b>	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 20:20	7440-38-2	
Barium	<b>0.043</b>	mg/L	0.0050	0.00067	1	01/25/22 09:49	01/25/22 20:20	7440-39-3	
Beryllium	<b>0.000092J</b>	mg/L	0.00050	0.000054	1	01/25/22 09:49	01/25/22 20:20	7440-41-7	
Boron	<b>0.024J</b>	mg/L	0.040	0.0086	1	01/25/22 09:49	01/25/22 20:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:49	01/25/22 20:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 20:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:49	01/25/22 20:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:49	01/25/22 20:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	01/25/22 09:49	01/25/22 20:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:49	01/25/22 20:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:49	01/25/22 20:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:49	01/25/22 20:20	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	02/02/22 08:00	02/02/22 13:10	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>54.0</b>	mg/L	10.0	10.0	1		01/25/22 16:17		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>27.0</b>	mg/L	5.0	1.8	1		01/26/22 15:08		
Alkalinity,Bicarbonate (CaCO3)	<b>27.0</b>	mg/L	5.0	1.8	1		01/26/22 15:08		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 15:08		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>1.9</b>	mg/L	1.0	0.60	1		01/21/22 19:56	16887-00-6	M1
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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

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**Sample: DGWA-70A**      **Lab ID: 92583603001**      Collected: 01/18/22 16:35      Received: 01/20/22 08:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**      Analytical Method: EPA 300.0 Rev 2.1 1993  
 Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		01/21/22 19:56	16984-48-8	M1
Sulfate	ND	mg/L	1.0	0.50	1		01/21/22 19:56	14808-79-8	M1

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

**Sample: DGWA-71**      **Lab ID: 92583603002**      Collected: 01/18/22 16:25      Received: 01/20/22 08:45      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/20/22 13:59		
pH	<b>5.51</b>	Std. Units			1		01/20/22 13:59		

**6010D ATL ICP**

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

Potassium	<b>0.66</b>	mg/L	0.20	0.15	1	01/25/22 09:10	01/25/22 16:11	7440-09-7	
Sodium	<b>9.1</b>	mg/L	1.0	0.58	1	01/25/22 09:10	01/25/22 16:11	7440-23-5	
Calcium	<b>6.6</b>	mg/L	1.0	0.12	1	01/25/22 09:10	01/25/22 16:11	7440-70-2	
Magnesium	<b>0.93</b>	mg/L	0.050	0.012	1	01/25/22 09:10	01/25/22 16:11	7439-95-4	

**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:49	01/25/22 20:26	7440-36-0	
Arsenic	<b>0.0054</b>	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 20:26	7440-38-2	
Barium	<b>0.029</b>	mg/L	0.0050	0.00067	1	01/25/22 09:49	01/25/22 20:26	7440-39-3	
Beryllium	<b>0.00012J</b>	mg/L	0.00050	0.000054	1	01/25/22 09:49	01/25/22 20:26	7440-41-7	
Boron	<b>0.015J</b>	mg/L	0.040	0.0086	1	01/25/22 09:49	01/25/22 20:26	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:49	01/25/22 20:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 20:26	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:49	01/25/22 20:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:49	01/25/22 20:26	7439-92-1	
Lithium	<b>0.0013J</b>	mg/L	0.030	0.00073	1	01/25/22 09:49	01/25/22 20:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:49	01/25/22 20:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:49	01/25/22 20:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:49	01/25/22 20:26	7440-28-0	

**7470 Mercury**

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

Mercury	<b>0.00015J</b>	mg/L	0.00020	0.00013	1	02/02/22 08:00	02/02/22 13:13	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>76.0</b>	mg/L	10.0	10.0	1		01/25/22 16:17		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO <sub>3</sub>	<b>22.5</b>	mg/L	5.0	1.8	1		01/26/22 15:12		
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	<b>22.5</b>	mg/L	5.0	1.8	1		01/26/22 15:12		
Alkalinity,Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	1.8	1		01/26/22 15:12		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>5.9</b>	mg/L	1.0	0.60	1		01/21/22 21:06	16887-00-6	
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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

Sample: DGWA-71 Lab ID: 92583603002 Collected: 01/18/22 16:25 Received: 01/20/22 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		01/21/22 21:06	16984-48-8	
Sulfate	6.3	mg/L	1.0	0.50	1		01/21/22 21:06	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT  
 Pace Project No.: 92583603

Sample: DGWA-53	Lab ID: 92583603003	Collected: 01/28/22 10:09	Received: 01/28/22 15:32	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		01/28/22 16:15		
pH	<b>6.35</b>	Std. Units			1		01/28/22 16:15		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>4.2</b>	mg/L	0.20	0.15	1	02/02/22 14:04	02/04/22 00:40	7440-09-7	
Magnesium	<b>6.9</b>	mg/L	0.050	0.012	1	02/02/22 14:04	02/04/22 00:40	7439-95-4	
Sodium	<b>8.9</b>	mg/L	1.0	0.58	1	02/02/22 14:04	02/04/22 14:03	7440-23-5	
Calcium	<b>19.5</b>	mg/L	1.0	0.12	1	02/02/22 14:04	02/04/22 14:03	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/22 09:47	02/01/22 16:34	7440-36-0	
Arsenic	<b>0.0024J</b>	mg/L	0.0050	0.0011	1	02/01/22 09:47	02/01/22 16:34	7440-38-2	
Barium	<b>0.068</b>	mg/L	0.0050	0.00067	1	02/01/22 09:47	02/01/22 16:34	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/22 09:47	02/01/22 16:34	7440-41-7	
Boron	<b>0.062</b>	mg/L	0.040	0.0086	1	02/01/22 09:47	02/01/22 16:34	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/22 09:47	02/01/22 16:34	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/01/22 09:47	02/01/22 16:34	7440-47-3	
Cobalt	<b>0.014</b>	mg/L	0.0050	0.00039	1	02/01/22 09:47	02/01/22 16:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/22 09:47	02/01/22 16:34	7439-92-1	
Lithium	<b>0.0091J</b>	mg/L	0.030	0.00073	1	02/01/22 09:47	02/01/22 16:34	7439-93-2	
Molybdenum	<b>0.026</b>	mg/L	0.010	0.00074	1	02/01/22 09:47	02/01/22 16:34	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/01/22 09:47	02/01/22 16:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/22 09:47	02/01/22 16:34	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/02/22 08:00	02/02/22 13:16	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>155</b>	mg/L	10.0	10.0	1		02/03/22 12:41		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	<b>82.9</b>	mg/L	5.0	1.8	1		02/02/22 22:05		
Alkalinity,Bicarbonate (CaCO3)	<b>82.9</b>	mg/L	5.0	1.8	1		02/02/22 22:05		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 22:05		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>1.8</b>	mg/L	1.0	0.60	1		02/04/22 18:01	16887-00-6	

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### ANALYTICAL RESULTS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

Sample: **DGWA-53** Lab ID: **92583603003** Collected: 01/28/22 10:09 Received: 01/28/22 15:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	<b>0.080J</b>	mg/L	0.10	0.050	1		02/04/22 18:01	16984-48-8	
Sulfate	<b>13.1</b>	mg/L	1.0	0.50	1		02/04/22 18:01	14808-79-8	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

QC Batch:	673587	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583603001, 92583603002

METHOD BLANK: 3525717 Matrix: Water

Associated Lab Samples: 92583603001, 92583603002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	01/25/22 14:07	
Magnesium	mg/L	ND	0.050	0.012	01/25/22 14:07	
Potassium	mg/L	ND	0.20	0.15	01/25/22 14:07	
Sodium	mg/L	ND	1.0	0.58	01/25/22 14:07	

LABORATORY CONTROL SAMPLE: 3525718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	108	80-120	
Magnesium	mg/L	1	1.1	110	80-120	
Potassium	mg/L	1	1.1	106	80-120	
Sodium	mg/L	1	1.1	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525719 3525720

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583585001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	10.7	1	1	11.9	11.8	118	113	75-125	0	20
Magnesium	mg/L	3.8	1	1	4.9	4.9	108	109	75-125	0	20
Potassium	mg/L	2.5	1	1	3.6	3.7	111	114	75-125	1	20
Sodium	mg/L	8.2	1	1	9.1	9.3	91	106	75-125	2	20

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### QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT  
 Pace Project No.: 92583603

QC Batch: 675554 Analysis Method: EPA 6010D  
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583603003

METHOD BLANK: 3535646 Matrix: Water

Associated Lab Samples: 92583603003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/03/22 22:50	
Magnesium	mg/L	ND	0.050	0.012	02/03/22 22:50	
Potassium	mg/L	ND	0.20	0.15	02/03/22 22:50	
Sodium	mg/L	ND	1.0	0.58	02/03/22 22:50	

LABORATORY CONTROL SAMPLE: 3535647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	110	80-120	
Magnesium	mg/L	1	1.1	112	80-120	
Potassium	mg/L	1	1.0	104	80-120	
Sodium	mg/L	1	1.2	115	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3535648 3535649

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583955009	Result	Conc.	Conc.						
Calcium	mg/L	163	1	1	175	172	1180	964	75-125	1	20 M1
Magnesium	mg/L	27.8	1	1	30.1	30.0	226	216	75-125	0	20 M1
Potassium	mg/L	8.7	1	1	10.4	10.3	170	157	75-125	1	20 M1
Sodium	mg/L	19.7	1	1	23.0	22.8	331	308	75-125	1	20 M1

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**QUALITY CONTROL DATA**

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

QC Batch:	673617	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583603001, 92583603002

METHOD BLANK: 3525846 Matrix: Water

Associated Lab Samples: 92583603001, 92583603002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	01/25/22 18:39	
Arsenic	mg/L	ND	0.0050	0.0011	01/25/22 18:39	
Barium	mg/L	ND	0.0050	0.00067	01/25/22 18:39	
Beryllium	mg/L	ND	0.00050	0.000054	01/25/22 18:39	
Boron	mg/L	ND	0.040	0.0086	01/25/22 18:39	
Cadmium	mg/L	ND	0.00050	0.00011	01/25/22 18:39	
Chromium	mg/L	ND	0.0050	0.0011	01/25/22 18:39	
Cobalt	mg/L	ND	0.0050	0.00039	01/25/22 18:39	
Lead	mg/L	ND	0.0010	0.00089	01/25/22 18:39	
Lithium	mg/L	ND	0.030	0.00073	01/25/22 18:39	
Molybdenum	mg/L	ND	0.010	0.00074	01/25/22 18:39	
Selenium	mg/L	ND	0.0050	0.0014	01/25/22 18:39	
Thallium	mg/L	ND	0.0010	0.00018	01/25/22 18:39	

LABORATORY CONTROL SAMPLE: 3525847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.093	93	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.094	94	80-120	
Cobalt	mg/L	0.1	0.090	90	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.093	93	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525848 3525849

Parameter	Units	92583585002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	108	108	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.098	0.095	98	95	75-125	3	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

Parameter	Units	3525848		3525849		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583585002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.047	0.1	0.1	0.15	0.15	102	107	75-125	4	20		
Beryllium	mg/L	ND	0.1	0.1	0.098	0.092	98	92	75-125	6	20		
Boron	mg/L	ND	1	1	0.99	0.91	99	90	75-125	9	20		
Cadmium	mg/L	ND	0.1	0.1	0.099	0.096	99	96	75-125	3	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	3	20		
Cobalt	mg/L	ND	0.1	0.1	0.099	0.10	99	99	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	3	20		
Lithium	mg/L	0.0085J	0.1	0.1	0.11	0.10	98	95	75-125	3	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20		

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**QUALITY CONTROL DATA**

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

QC Batch: 675122

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583603003

METHOD BLANK: 3533656

Matrix: Water

Associated Lab Samples: 92583603003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/01/22 13:34	
Arsenic	mg/L	ND	0.0050	0.0011	02/01/22 13:34	
Barium	mg/L	ND	0.0050	0.00067	02/01/22 13:34	
Beryllium	mg/L	ND	0.00050	0.000054	02/01/22 13:34	
Boron	mg/L	ND	0.040	0.0086	02/01/22 13:34	
Cadmium	mg/L	ND	0.00050	0.00011	02/01/22 13:34	
Chromium	mg/L	ND	0.0050	0.0011	02/01/22 13:34	
Cobalt	mg/L	ND	0.0050	0.00039	02/01/22 13:34	
Lead	mg/L	ND	0.0010	0.00089	02/01/22 13:34	
Lithium	mg/L	ND	0.030	0.00073	02/01/22 13:34	
Molybdenum	mg/L	ND	0.010	0.00074	02/01/22 13:34	
Selenium	mg/L	ND	0.0050	0.0014	02/01/22 13:34	
Thallium	mg/L	ND	0.0010	0.00018	02/01/22 13:34	

LABORATORY CONTROL SAMPLE: 3533657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.11	109	80-120	
Boron	mg/L	1	1.1	115	80-120	
Cadmium	mg/L	0.1	0.11	106	80-120	
Chromium	mg/L	0.1	0.11	105	80-120	
Cobalt	mg/L	0.1	0.10	105	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.11	110	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3533658 3533659

Parameter	Units	92585102002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	107	108	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	1	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

Parameter	Units	3533658		3533659		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Barium	mg/L	23.1 ug/L	0.1	0.1	0.13	0.13	107	105	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.11	0.11	110	108	75-125	2	20	
Boron	mg/L	ND	1	1	1.1	1.1	113	109	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.11	105	108	75-125	3	20	
Chromium	mg/L	47.0 ug/L	0.1	0.1	0.15	0.16	107	112	75-125	3	20	
Cobalt	mg/L	ND	0.1	0.1	0.11	0.11	105	109	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.11	0.11	109	106	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	102	105	75-125	3	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.099	0.10	99	100	75-125	1	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

QC Batch: 675274	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583603001, 92583603002, 92583603003

METHOD BLANK: 3534212 Matrix: Water  
 Associated Lab Samples: 92583603001, 92583603002, 92583603003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/02/22 12:18	

LABORATORY CONTROL SAMPLE: 3534213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3534214 3534215

Parameter	Units	3534214		3534215		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	0.50 ug/L	0.0025	0.0025	0.0027	0.0025	89	80	75-125	9	20

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**QUALITY CONTROL DATA**

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

QC Batch:	673706	Analysis Method:	SM 2540C-2015
QC Batch Method:	SM 2540C-2015	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	92583603001, 92583603002	Laboratory:	Pace Analytical Services - Peachtree Corners, GA

METHOD BLANK: 3526393 Matrix: Water  
 Associated Lab Samples: 92583603001, 92583603002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	01/25/22 16:16	

LABORATORY CONTROL SAMPLE: 3526394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3526395

Parameter	Units	92583263001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	308	310	1	25	

SAMPLE DUPLICATE: 3526396

Parameter	Units	92583585002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	129	123	5	25	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH UPGRADIENT  
 Pace Project No.: 92583603

QC Batch: 675783 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: 92583603003

METHOD BLANK: 3536822 Matrix: Water  
 Associated Lab Samples: 92583603003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/03/22 12:37	

LABORATORY CONTROL SAMPLE: 3536823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	376	94	80-120	

SAMPLE DUPLICATE: 3536824

Parameter	Units	92584785018 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	274	288	5	25	

SAMPLE DUPLICATE: 3536825

Parameter	Units	92583603003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	155	146	6	25	

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: MCDONOUGH UPGRADIENT  
 Pace Project No.: 92583603

QC Batch: 795578 Analysis Method: SM 2320B  
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 92583603001, 92583603002

METHOD BLANK: 4230575 Matrix: Water  
 Associated Lab Samples: 92583603001, 92583603002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	01/26/22 14:12	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	01/26/22 14:12	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	01/26/22 14:12	

LABORATORY CONTROL SAMPLE & LCSD: 4230576 4230577

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	42.1	42.3	105	106	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4230578 4230579

Parameter	Units	10595480001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	21.7	40	40	61.1	59.0	99	93	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4230580 4230581

Parameter	Units	92583585001 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	51.0	40	40	91.2	91.1	100	100	80-120	0	20	

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### QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT  
 Pace Project No.: 92583603

QC Batch: 796923 Analysis Method: SM 2320B  
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 92583603003

METHOD BLANK: 4235799 Matrix: Water  
 Associated Lab Samples: 92583603003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	02/02/22 21:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/02/22 21:34	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	02/02/22 21:34	

LABORATORY CONTROL SAMPLE & LCSD: 4235800 4235801

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	42.2	42.3	105	106	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4235802 4235803

Parameter	Units	92583953027 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	5.3	40	40	43.7	43.4	96	95	80-120	1	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

QC Batch:	673024	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92583603001, 92583603002

METHOD BLANK: 3522867 Matrix: Water

Associated Lab Samples: 92583603001, 92583603002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/21/22 19:29	
Fluoride	mg/L	ND	0.10	0.050	01/21/22 19:29	
Sulfate	mg/L	ND	1.0	0.50	01/21/22 19:29	

LABORATORY CONTROL SAMPLE: 3522868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.5	101	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	49.8	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3522869 3522870

Parameter	Units	92583603001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	1.9	50	50	59.6	60.4	115	117	90-110	1	10	M1	
Fluoride	mg/L	ND	2.5	2.5	2.9	2.9	114	115	90-110	1	10	M1	
Sulfate	mg/L	ND	50	50	57.2	57.9	114	116	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3522871 3522872

Parameter	Units	92583486008		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	9.5	50	50	65.5	65.6	112	112	90-110	0	10	M1	
Fluoride	mg/L	ND	2.5	2.5	3.2	3.2	126	125	90-110	1	10	M1	
Sulfate	mg/L	65.6	50	50	104	101	77	70	90-110	3	10	M1	

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### QUALITY CONTROL DATA

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

QC Batch: 675484	Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92583603003

METHOD BLANK: 3535178 Matrix: Water

Associated Lab Samples: 92583603003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/04/22 12:13	
Fluoride	mg/L	ND	0.10	0.050	02/04/22 12:13	
Sulfate	mg/L	ND	1.0	0.50	02/04/22 12:13	

LABORATORY CONTROL SAMPLE: 3535179

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	98	90-110	
Sulfate	mg/L	50	49.3	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3535180 3535181

Parameter	Units	92585451002		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result							
Chloride	mg/L	65.5	50	50	50	101	102	71	74	90-110	1	10	M1	
Fluoride	mg/L	0.46	2.5	2.5	2.5	2.9	2.9	97	97	90-110	0	10		
Sulfate	mg/L	122	50	50	50	169	170	94	96	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3535182 3535183

Parameter	Units	92584785016		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result							
Chloride	mg/L	4.9	50	50	50	57.1	56.8	104	104	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	2.5	100	100	90-110	0	10		
Sulfate	mg/L	89.9	50	50	50	117	117	54	55	90-110	0	10	M1	

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## QUALIFIERS

Project: MCDONOUGH UPGRADIENT

Pace Project No.: 92583603

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### 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.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: MCDONOUGH UPGRADIENT  
 Pace Project No.: 92583603

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583603001	DGWA-70A				
92583603002	DGWA-71				
92583603003	DGWA-53				
92583603001	DGWA-70A	EPA 3010A	673587	EPA 6010D	673656
92583603002	DGWA-71	EPA 3010A	673587	EPA 6010D	673656
92583603003	DGWA-53	EPA 3010A	675554	EPA 6010D	675629
92583603001	DGWA-70A	EPA 3005A	673617	EPA 6020B	673660
92583603002	DGWA-71	EPA 3005A	673617	EPA 6020B	673660
92583603003	DGWA-53	EPA 3005A	675122	EPA 6020B	675233
92583603001	DGWA-70A	EPA 7470A	675274	EPA 7470A	675501
92583603002	DGWA-71	EPA 7470A	675274	EPA 7470A	675501
92583603003	DGWA-53	EPA 7470A	675274	EPA 7470A	675501
92583603001	DGWA-70A	SM 2540C-2015	673706		
92583603002	DGWA-71	SM 2540C-2015	673706		
92583603003	DGWA-53	SM 2540C-2015	675783		
92583603001	DGWA-70A	SM 2320B	795578		
92583603002	DGWA-71	SM 2320B	795578		
92583603003	DGWA-53	SM 2320B	796923		
92583603001	DGWA-70A	EPA 300.0 Rev 2.1 1993	673024		
92583603002	DGWA-71	EPA 300.0 Rev 2.1 1993	673024		
92583603003	DGWA-53	EPA 300.0 Rev 2.1 1993	675484		

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Document Name  
 Template Certificate upon Receipt (SCUR)  
 Document No.  
 P-CAB-01-013-Rev.08

Document Number: November 13, 2025  
 Page 1 of 1  
 Issuing Authority  
 Pace Customer Quality Office

Laboratory receiving samples:

Ashville  Eden  Greenwood  Mountainville  Raleigh  Mechanicsville  Atlanta  Kennesaw

WO# : 92583603

Customer Name: [Redacted]

Customer: GA Power Co  
 Fed Ex  UPS  Other  
 Express  Mail  Other



Country of Origin:  FR  US  Other

Extra/Single Point Sampling Location: 11/20/25

Packing Material:  Bubble Wrap  Bubble Bag  Other  
 The material:  Cellulose  Paper  Other

Biological Material?  Yes  No

Cooler Temp: 5.6/20/25 2.14 40.1

Temp should be above 5 degrees to PC  
 Document out of temp range. Samples were cooling placed in cooler

Cooler Temp Corrected (C): 4.4 5.7/20/25/4.5

USDA Registered Soil ID: PA  
 Do samples originate in a designated area within the United States, CA, HI, or SC (check map)?  
 Yes  No

Do samples originate from a foreign source (with full or city, including state and postal code)?  
 Yes  No

Chain of Custody Step	Yes	No	Other	1
Temperature and other field data?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Start field Free Analysis (FIA) or IP	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2
Perk Test to meet Field Request (PT)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3
Logic and U-Checks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4
Correct Contaminant ID?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5
File Contaminant Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6
Container ID Mark?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
Sealed analysis Samples Free Released?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	8
Temperatures above 5°C?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	9
Incident Date/Time/Location				10
Seal space in VOA? (if not 4000)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11
Top Seal Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12
Top Seal Correct Seal Pattern?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13

COULD NOT VERIFY DOCUMENT:  Yes  No

DATE OF ANALYSIS/INFORMATION: \_\_\_\_\_

Person CONTACT: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCUR Review: \_\_\_\_\_ Date: \_\_\_\_\_  
 Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_





Laboratory receiving samples:

Ashtville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville



Client Name: Georgia Power Project  
 Grid  URS  Users  GC and  
 Commercial  Base  Other

WO#: 92583603

PH: HNK Due Date: 02/03/22  
 CLIENT: GE-GR Power

Certify that Project:  Yes  No  Subcontract?  Yes  No

Date/Time of Person Examining Certificate: 02/03/22 10:00

Asking Method:  2500W up  Random Step  Manual  Other

Biological Testing Process?  Yes  No  N/A

Thermocouple:  or not 9/44 Type of air:  ASH  SO2  Other

Cooler Temp: 2.8 Correction Factor: 0.9  
 Add/Sub Temp (°C): 0.1

Temp should be above 17.5°C (63.5°F)  
 Checked Out of Temperature Range (10% to 100% process)  
 No Temp

Cooler Temp Connected (°C) 0.9

W304 Regulated Soil:  N/A,  with sample

Do samples originate in a jurisdiction area within the United States, CA, NY, or CT (check mark)?

Did samples originate from a foreign source (international, including marine and aviation fuel)?  Yes  No  
 Comments/Security Policy:

Checkmark	Yes	No	NA	Count
Chain of Custody Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Sample Acquired within Hour (Yes)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2
Sampled Time Analyzed (2h max)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3
Back Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4
Is Project volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6
Proper Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
Labeling Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
Detailed Analytical Methods/Field Log?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9
Sample Label Match (SCIR)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10
Includes Date/Time/C/Analyte Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11
Includes W304 Regulated Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12
Top Bank Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13
Top Bank Corrosion Date Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14

Comments, unusual observations: \_\_\_\_\_ Analytical Requested?  Yes  No

DATE OF RECEIPT FROM FIELD: \_\_\_\_\_ See ID of your certificate here \_\_\_\_\_

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager (SCIR) System: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager (SCIR) Analyst: \_\_\_\_\_ Date: \_\_\_\_\_





March 15, 2022

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

RE: Project: MCDONOUGH UPGRADIENT RAD  
Pace Project No.: 92583500

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between January 20, 2022 and January 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 - Greensburg

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

Sincerely,

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

Enclosures

cc: Stephen Benda  
Anna Bottum, ERM  
Andrea Brazell, ERM  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power  
Kristen Jurinko  
Karim Minkara, Golder Associates - Atlanta  
J. Shelby Mobley  
Charles Norton, Southern Company  
Ms. Lauren Petty, Southern Company  
Dawn Prell, Golder Associates Inc.  
Lacy Smith, ERM

Caitlin Tillema, ERM  
Christine Weaver, ERM



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## CERTIFICATIONS

Project: MCDONOUGH UPGRADIENT RAD  
Pace Project No.: 92583500

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### 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 UPGRADIENT RAD

Pace Project No.: 92583500

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92583500001	DGWA-70A	Water	01/18/22 16:35	01/20/22 08:45
92583500002	DGWA-71	Water	01/18/22 16:25	01/20/22 08:45
92583500003	DGWA-53	Water	01/28/22 10:09	01/28/22 15:32

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH UPGRADIENT RAD

Pace Project No.: 92583500

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583500001	DGWA-70A	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583500002	DGWA-71	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583500003	DGWA-53	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	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 UPGRADIENT RAD

Pace Project No.: 92583500

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWA-70A</b> <b>Lab ID: 92583500001</b> Collected: 01/18/22 16:35      Received: 01/20/22 08:45      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0285 ± 0.0770 (0.187)</b> <b>C:95% T:NA</b>	pCi/L	02/14/22 09:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.23 ± 0.537 (0.892)</b> <b>C:69% T:78%</b>	pCi/L	02/03/22 10:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.26 ± 0.614 (1.08)</b>	pCi/L	02/17/22 07:02	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RAD

Pace Project No.: 92583500

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWA-71</b> <b>Lab ID: 92583500002</b> Collected: 01/18/22 16:25      Received: 01/20/22 08:45      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.125 ± 0.0993 (0.171)</b> <b>C:93% T:NA</b>	pCi/L	02/14/22 09:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.604 ± 0.414 (0.798)</b> <b>C:73% T:79%</b>	pCi/L	02/03/22 10:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.729 ± 0.513 (0.969)</b>	pCi/L	02/17/22 07:02	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RAD

Pace Project No.: 92583500

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWA-53</b> <b>Lab ID: 92583500003</b> Collected: 01/28/22 10:09      Received: 01/28/22 15:32      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.925 ± 0.262 (0.175)</b> <b>C:96% T:NA</b>	pCi/L	03/08/22 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.17 ± 0.441 (0.661)</b> <b>C:83% T:91%</b>	pCi/L	03/07/22 15:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.10 ± 0.703 (0.836)</b>	pCi/L	03/13/22 14:43	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RAD

Pace Project No.: 92583500

QC Batch: 480682

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92583500001, 92583500002

METHOD BLANK: 2322658

Matrix: Water

Associated Lab Samples: 92583500001, 92583500002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.570 ± 0.392 (0.745) C:71% T:72%	pCi/L	02/03/22 10:11	

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

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RAD

Pace Project No.: 92583500

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QC Batch:	486611	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92583500003

---

METHOD BLANK: 2353259 Matrix: Water

Associated Lab Samples: 92583500003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0325 ± 0.0552 (0.191) C:101% T:NA	pCi/L	03/08/22 08:21	

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

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: MCDONOUGH UPGRADIENT RAD

Pace Project No.: 92583500

QC Batch: 480871	Analysis Method: EPA 9315
QC Batch Method: EPA 9315	Analysis Description: 9315 Total Radium
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92583500001, 92583500002

METHOD BLANK: 2323618 Matrix: Water

Associated Lab Samples: 92583500001, 92583500002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.165 ± 0.131 (0.240) C:84% T:NA	pCi/L	02/14/22 09:25	

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

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH UPGRADIENT RAD

Pace Project No.: 92583500

QC Batch: 486656

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92583500003

METHOD BLANK: 2353491

Matrix: Water

Associated Lab Samples: 92583500003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.534 ± 0.356 (0.681) C:77% T:89%	pCi/L	03/07/22 11:50	

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

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## QUALIFIERS

Project: MCDONOUGH UPGRADIENT RAD

Pace Project No.: 92583500

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH UPGRADIENT RAD

Pace Project No.: 92583500

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583500001	DGWA-70A	EPA 9315	480871		
92583500002	DGWA-71	EPA 9315	480871		
92583500003	DGWA-53	EPA 9315	486611		
92583500001	DGWA-70A	EPA 9320	480682		
92583500002	DGWA-71	EPA 9320	480682		
92583500003	DGWA-53	EPA 9320	486656		
92583500001	DGWA-70A	Total Radium Calculation	484431		
92583500002	DGWA-71	Total Radium Calculation	484431		
92583500003	DGWA-53	Total Radium Calculation	489943		

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Document Name  
 Template Certificate upon Receipt (SCUR)  
 Document No.  
 P-CAB-01-013-Rev.08

Document Number: November 13, 2025  
 Page 1 of 2  
 Issuing Authority  
 Pace Customer Quality Office

Laboratory receiving samples:

Ashville  Eden  Greenwood  Mountainville  Raleigh  Mechanicsville  Atlanta  Kennesaw

W04 : 92583603

Customer Name: [Redacted]

Customer: GA Power Co  
 Fed Ex  UPS  Other  
 Express  Mail  Other



Country of Origin:  FR  US  Other

Extra/Single Person Estimating Category: 11/20/22

Packing Material:  Bubble Wrap  Bubble Bag  Other  
 The material:  Other

Biological Material?  Yes  No

Cooler Temp: 5.6/20/21 21.4 40.1

Temp should be above 5 degrees to PC  
 Document out of temp range. Samples were cooling placed in cooler

Cooler Temp Corrected (C): 4.4 5.7/21/20/14.5

USDA Registered Soil?  Yes  No  
 Do samples contain a liquid which can spill in the United States, CA, or SC (check map)?  Yes  No

Do samples appear to come from a foreign source (with call out only including Mexico and Puerto Rico)?  Yes  No

Chain of Custody Step	Yes	No	Other	1
Temperature and other field data?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Start field Free Analysis (FIA) or IP	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2
Perk Test to meet Field Request (FT)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3
Logic and U-Checks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4
Correct Contaminant list?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5
File Contaminant Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6
Container Label?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
Sealed analysis Samples Free Released?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	8
Temperatures above 50C?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	9
Incident Date/Time/By/Analysis	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10
Handspace in VOA? (if not 5000)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11
Top 5000 Element?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12
Top 5000 Cusody Grab Point?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13

COULD NOT VERIFY DOCUMENT

note has been made  Yes  No

Customer Signature/Institution: \_\_\_\_\_ Date: \_\_\_\_\_

Person Collecting: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCUR Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_





Laboratory receiving samples:

Ashtville [ ] Eden [ ] Greenwood [ ] Huntersville [ ] Raleigh [ ] Mechanicsville [ ] Atlanta [x] Kernersville [ ]

LABORATORY: RLAB

Client Name: Georgia Power
Project: [ ]
Cooler: [ ] Commercial [ ]
Cooler Type: [ ]

WO#: 92583603

PH: HNC
Due Date: 02/03/22
CLIENT: GE-PA Power

Certify Cool Project? [ ] Yes [x] No

Site/Project Person: [ ]

Refrigerant: [ ] R22/R410A [ ] R404A [ ] R507 [ ] Other [x]

Biological Testing Process? [ ] Yes [ ] No [x] N/A

Thermometer: [ ] or [ ]
Type of use: [ ]

Cooler Temp: 2.8
Correction Factor: 0.0
Add/Sub Temp (C): 0.1

Temp should be above 17.0°C
[ ] Normal Out of Temperature Range (17.0°C) during process
[ ] No Temp

Cooler Temp Connected (C): 0.0

USDA Registered Soil? [ ] N/A, with label(s)
Do samples originate in a jurisdiction within the United States, CA, AZ, or AZ? (check mark)

Did samples originate from a foreign source (international, including marine and domestic)? [ ] Yes [x] No
Comments/Security policy:

Table with 5 columns: Task, Yes, No, N/A, Priority. Rows include: Chain of Custody Present?, Sample Acquired within Hour (Yes), Sample Cold Time Analyzed (20 min), Leak Turn Around Time Requested?, All Flasks Vented?, Correct Containers Used?, Race Containers Used?, All samples labeled?, Disturbed samples, Samples Filled/ Tapped?, Sample Label Match (SCL)?, Includes Date, Time/C/Analyt, Name, Temperature in SCL (at time of collection), Top Bank Present?, Top Bank Corrosion date Present?

Comments, unusual observations:
RAC Data Requested? [ ] Yes [x] No

LABORATORY PERSONNEL SIGNATURE:
Date:
LABORATORY PERSONNEL SIGNATURE:
Date:

Person contacted:
Date/Time:

Project Manager SCL/CF System:
Date:
Project Manager SCL/CF Analyst:
Date:

**CHAIN OF CUSTODY / Analytical Request Document**  
 The Chain of Custody is a critical document for all evidence. It must be maintained throughout the entire process.

Page 1 of 1

Chain of Custody / Analytical Request Document The Chain of Custody is a critical document for all evidence. It must be maintained throughout the entire process.		Chain of Custody / Analytical Request Document The Chain of Custody is a critical document for all evidence. It must be maintained throughout the entire process.	
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Sample ID: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Title: \_\_\_\_\_



### Quality Control Sample Performance Assessment



Final Quality Control Sample Performance Assessment

**Sample Information**

Sample ID: [Handwritten]

Sample Name: [Handwritten]

Sample Location: [Handwritten]

Sample Date: [Handwritten]

Sample Time: [Handwritten]

---

**Sample Description**

[Handwritten description of sample]

---

**Sample Analysis**

[Handwritten analysis results]

---

**Sample Results**

[Handwritten results]

---

**Sample Comments**

[Handwritten comments]

---

**Sample Status**

[Handwritten status]

---

**Sample Date**

[Handwritten date]

---

**Sample Time**

[Handwritten time]

---

**Sample Location**

[Handwritten location]

---

**Sample Name**

[Handwritten name]

---

**Sample ID**

[Handwritten ID]

Final Quality Control Sample Performance Assessment

### Quality Control Sample Performance Assessment

4. **Assessment**  
 Date: \_\_\_\_\_

5. **Assessment**  
 Date: \_\_\_\_\_

**Assessment**

The sample was analyzed for the presence of the following substances:

- Lead
- Cadmium
- Chromium
- Copper
- Iron
- Manganese
- Nickel
- Silver
- Zinc

The results of the analysis are as follows:

- Lead: 0.01 mg/L
- Cadmium: 0.001 mg/L
- Chromium: 0.05 mg/L
- Copper: 0.02 mg/L
- Iron: 0.1 mg/L
- Manganese: 0.01 mg/L
- Nickel: 0.005 mg/L
- Silver: 0.001 mg/L
- Zinc: 0.01 mg/L

The results indicate that the sample is in compliance with the applicable regulatory requirements.

**Assessment**

The sample was analyzed for the presence of the following substances:

- Lead
- Cadmium
- Chromium
- Copper
- Iron
- Manganese
- Nickel
- Silver
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- Nickel: 0.005 mg/L
- Silver: 0.001 mg/L
- Zinc: 0.01 mg/L

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- Iron: 0.1 mg/L
- Manganese: 0.01 mg/L
- Nickel: 0.005 mg/L
- Silver: 0.001 mg/L
- Zinc: 0.01 mg/L

The results indicate that the sample is in compliance with the applicable regulatory requirements.

**Assessment**

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- Cadmium
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- Manganese: 0.01 mg/L
- Nickel: 0.005 mg/L
- Silver: 0.001 mg/L
- Zinc: 0.01 mg/L

The results indicate that the sample is in compliance with the applicable regulatory requirements.

**Assessment**

The sample was analyzed for the presence of the following substances:

- Lead
- Cadmium
- Chromium
- Copper
- Iron
- Manganese
- Nickel
- Silver
- Zinc

The results of the analysis are as follows:

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- Cadmium: 0.001 mg/L
- Chromium: 0.05 mg/L
- Copper: 0.02 mg/L
- Iron: 0.1 mg/L
- Manganese: 0.01 mg/L
- Nickel: 0.005 mg/L
- Silver: 0.001 mg/L
- Zinc: 0.01 mg/L

The results indicate that the sample is in compliance with the applicable regulatory requirements.

6. **Assessment**  
 Date: \_\_\_\_\_

**Assessment**

# Quality Control Sample Performance Assessment

**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226  
Analyst: JC2  
Date: 3/1/2022  
Worklist: 65294  
Matrix: DW

Method Blank Assessment	
MB Sample ID	2353259
MB concentration:	-0.033
M/B Counting Uncertainty:	0.055
MB MDC:	0.191
MB Numerical Performance Indicator:	-1.16
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCSID (Y or N)?	Y
Count Date:		LCSID65294	
Spike I.D.:		3/8/2022	3/8/2022
Decay Corrected Spike Concentration (pCi/mL):		19-033	19-033
Volume Used (mL):		24.029	24.029
Aliquot Volume (L, g, F):		0.10	0.10
Target Conc. (pCi/L, g, F):		0.503	0.506
Uncertainty (Calculated):		4.777	4.752
Result (pCi/L, g, F):		0.057	0.057
LCS/LCSD Counting Uncertainty (pCi/L, g, F):		4.910	4.441
Numerical Performance Indicator:		0.508	0.466
Percent Recovery:		0.51	-1.30
Status vs Numerical Indicator:		102.79%	93.46%
Status vs Recovery:		N/A	N/A
Upper % Recovery Limits:		Pass	Pass
Lower % Recovery Limits:		125%	125%
		75%	75%

Duplicate Sample Assessment		LCSID	Y
Sample I.D.:		LCS65294	92587080025
Duplicate Sample I.D.:		LCS65294	92587080025DUP
Sample Result (pCi/L, g, F):		4.910	0.708
Sample Result Counting Uncertainty (pCi/L, g, F):		0.508	0.212
Sample Duplicate Result (pCi/L, g, F):		4.441	0.789
Sample Duplicate Counting Uncertainty (pCi/L, g, F):		0.466	0.203
Are sample and/or duplicate results below RL? :		NO	See Below ##
Duplicate Numerical Performance Indicator:		1.334	-0.540
Duplicate Status vs Numerical Indicator:		9.51%	10.80%
Duplicate Status vs RPD:		Pass	N/A
% RPD Limit:		25%	25%

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

Comments:

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

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

# Quality Control Sample Performance Assessment

**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: JSM  
Date: 3/3/2022  
Worklist: 65309  
Matrix: **WT**

Method Blank Assessment	
MB Sample ID	2353491
MB concentration:	0.534
MB 2 Sigma CSU:	0.356
MB MDC:	0.681
MB Numerical Performance Indicator:	2.94
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	Y
<b>LCS65309</b>	<b>LCS65309</b>
Count Date:	3/7/2022
Spike I.D.:	21-029
Decay Corrected Spike Concentration (pCi/mL):	36.090
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.810
Target Conc. (pCi/L, g, F):	4.454
Uncertainty (Calculated):	0.218
Result (pCi/L, g, F):	4.392
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.963
Numerical Performance Indicator:	-0.12
Percent Recovery:	98.60%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample I.D.:	LCS65309
Duplicate Sample I.D.:	LCS65309
Sample Result (pCi/L, g, F):	4.392
Sample Duplicate Result (pCi/L, g, F):	0.963
Sample Duplicate Result (pCi/L, g, F):	4.287
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.935
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.153
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.03%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

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

Comments:

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

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Matrix Spike Duplicate Numerical Performance Indicator:	
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:	



February 02, 2022

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

RE: Project: MCDONOUGH AP-1, AP-2, 3/4  
Pace Project No.: 92583957

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on January 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
- Pace Analytical Services - Minneapolis

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

Sincerely,

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

Enclosures

cc: Stephen Benda  
Anna Bottum, ERM  
Andrea Brazell, ERM  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power  
Kristen Jurinko  
J. Shelby Mobley  
Charles Norton, Southern Company  
Ms. Lauren Petty, Southern Company  
Dawn Prell, Golder Associates Inc.

Tim Richards, Golder Associates - Atlanta  
Lacy Smith, ERM  
Caitlin Tillema, ERM  
Christine Weaver, ERM



### REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MCDONOUGH AP-1, AP-2, 3/4  
 Pace Project No.: 92583957

**Pace Analytical Services, LLC - Minneapolis MN**

1700 Elm Street SE, Minneapolis, MN 55414  
 1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab  
 A2LA Certification #: 2926.01\*  
 Alabama Certification #: 40770  
 Alaska Contaminated Sites Certification #: 17-009\*  
 Alaska DW Certification #: MN00064  
 Arizona Certification #: AZ0014\*  
 Arkansas DW Certification #: MN00064  
 Arkansas WW Certification #: 88-0680  
 California Certification #: 2929  
 Colorado Certification #: MN00064  
 Connecticut Certification #: PH-0256  
 EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137  
 Florida Certification #: E87605\*  
 Georgia Certification #: 959  
 Hawaii Certification #: MN00064  
 Idaho Certification #: MN00064  
 Illinois Certification #: 200011  
 Indiana Certification #: C-MN-01  
 Iowa Certification #: 368  
 Kansas Certification #: E-10167  
 Kentucky DW Certification #: 90062  
 Kentucky WW Certification #: 90062  
 Louisiana DEQ Certification #: AI-03086\*  
 Louisiana DW Certification #: MN00064  
 Maine Certification #: MN00064\*  
 Maryland Certification #: 322  
 Michigan Certification #: 9909  
 Minnesota Certification #: 027-053-137\*  
 Minnesota Dept of Ag Approval: via MN 027-053-137  
 Minnesota Petrofund Registration #: 1240\*  
 Mississippi Certification #: MN00064

Missouri Certification #: 10100  
 Montana Certification #: CERT0092  
 Nebraska Certification #: NE-OS-18-06  
 Nevada Certification #: MN00064  
 New Hampshire Certification #: 2081\*  
 New Jersey Certification #: MN002  
 New York Certification #: 11647\*  
 North Carolina DW Certification #: 27700  
 North Carolina WW Certification #: 530  
 North Dakota Certification #: R-036  
 Ohio DW Certification #: 41244  
 Ohio VAP Certification (1700) #: CL101  
 Ohio VAP Certification (1800) #: CL110\*  
 Oklahoma Certification #: 9507\*  
 Oregon Primary Certification #: MN300001  
 Oregon Secondary Certification #: MN200001\*  
 Pennsylvania Certification #: 68-00563\*  
 Puerto Rico Certification #: MN00064  
 South Carolina Certification #:74003001  
 Tennessee Certification #: TN02818  
 Texas Certification #: T104704192\*  
 Utah Certification #: MN00064\*  
 Vermont Certification #: VT-027053137  
 Virginia Certification #: 460163\*  
 Washington Certification #: C486\*  
 West Virginia DEP Certification #: 382  
 West Virginia DW Certification #: 9952 C  
 Wisconsin Certification #: 999407970  
 Wyoming UST Certification #: via A2LA 2926.01  
 USDA Permit #: P330-19-00208  
 \*Please Note: Applicable air certifications are denoted with an asterisk (\*).

**Pace Analytical Services Charlotte**

South Carolina Laboratory ID: 99006  
 9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
 North Carolina Drinking Water Certification #: 37706  
 North Carolina Field Services Certification #: 5342  
 North Carolina Wastewater Certification #: 12  
 South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001  
 South Carolina Drinking Water Cert. #: 99006003  
 Florida/NELAP Certification #: E87627  
 Kentucky UST Certification #: 84  
 Louisiana DoH Drinking Water #: LA029  
 Virginia/VELAP Certification #: 460221

**Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804  
 Florida/NELAP Certification #: E87648  
 North Carolina Drinking Water Certification #: 37712  
 North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030  
 South Carolina Certification #: 99030001  
 Virginia/VELAP Certification #: 460222

**Pace Analytical Services Peachtree Corners**

110 Technology Pkwy, Peachtree Corners, GA 30092  
 Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812  
 North Carolina Certification #: 381

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## CERTIFICATIONS

Project: MCDONOUGH AP-1, AP-2, 3/4  
Pace Project No.: 92583957

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**Pace Analytical Services Peachtree Corners**  
South Carolina Certification #: 98011001

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92583957001	B-62	Water	01/20/22 15:05	01/21/22 15:32
92583957002	DUP-2	Water	01/20/22 00:00	01/21/22 15:32
92583957003	B-100	Water	01/21/22 10:15	01/21/22 15:32

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH AP-1, AP-2, 3/4  
 Pace Project No.: 92583957

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583957001	B-62	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583957002	DUP-2	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583957003	B-100	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville  
 PASI-C = Pace Analytical Services - Charlotte  
 PASI-GA = Pace Analytical Services - Peachtree Corners, GA  
 PASI-M = Pace Analytical Services - Minneapolis

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

**Sample: B-62**      **Lab ID: 92583957001**      Collected: 01/20/22 15:05      Received: 01/21/22 15:32      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/24/22 09:50		
pH	<b>6.32</b>	Std. Units			1		01/24/22 09:50		

**6010D ATL ICP**

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

Potassium	<b>2.8</b>	mg/L	0.20	0.15	1	01/25/22 09:10	01/25/22 16:30	7440-09-7	
Sodium	<b>10.8</b>	mg/L	1.0	0.58	1	01/25/22 09:10	01/25/22 16:30	7440-23-5	
Calcium	<b>36.3</b>	mg/L	1.0	0.12	1	01/25/22 09:10	01/25/22 16:30	7440-70-2	
Magnesium	<b>5.6</b>	mg/L	0.050	0.012	1	01/25/22 09:10	01/25/22 16:30	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	01/25/22 09:49	01/25/22 20:32	7440-36-0	
Arsenic	<b>0.0033J</b>	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 20:32	7440-38-2	
Barium	<b>0.021</b>	mg/L	0.0050	0.00067	1	01/25/22 09:49	01/25/22 20:32	7440-39-3	
Beryllium	<b>0.00015J</b>	mg/L	0.00050	0.000054	1	01/25/22 09:49	01/25/22 20:32	7440-41-7	
Boron	<b>0.077</b>	mg/L	0.040	0.0086	1	01/25/22 09:49	01/25/22 20:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:49	01/25/22 20:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 20:32	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:49	01/25/22 20:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:49	01/25/22 20:32	7439-92-1	
Lithium	<b>0.0092J</b>	mg/L	0.030	0.00073	1	01/25/22 09:49	01/25/22 20:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:49	01/25/22 20:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:49	01/25/22 20:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:49	01/25/22 20:32	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	01/31/22 15:00	02/01/22 10:37	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>187</b>	mg/L	10.0	10.0	1		01/26/22 17:46		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>81.0</b>	mg/L	5.0	1.8	1		01/25/22 17:38		
Alkalinity,Bicarbonate (CaCO3)	<b>81.0</b>	mg/L	5.0	1.8	1		01/25/22 17:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/25/22 17:38		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>5.6</b>	mg/L	1.0	0.60	1		01/25/22 20:47	16887-00-6	
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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

Sample: B-62 Lab ID: 92583957001 Collected: 01/20/22 15:05 Received: 01/21/22 15:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	<b>0.099J</b>	mg/L	0.10	0.050	1		01/25/22 20:47	16984-48-8	
Sulfate	<b>50.3</b>	mg/L	1.0	0.50	1		01/25/22 20:47	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-1, AP-2, 3/4  
 Pace Project No.: 92583957

**Sample: DUP-2**      **Lab ID: 92583957002**      Collected: 01/20/22 00:00      Received: 01/21/22 15:32      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	2.6	mg/L	0.20	0.15	1	01/25/22 09:10	01/25/22 16:35	7440-09-7	
Sodium	10.9	mg/L	1.0	0.58	1	01/25/22 09:10	01/25/22 16:35	7440-23-5	
Calcium	35.3	mg/L	1.0	0.12	1	01/25/22 09:10	01/25/22 16:35	7440-70-2	
Magnesium	5.6	mg/L	0.050	0.012	1	01/25/22 09:10	01/25/22 16:35	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:49	01/25/22 20:38	7440-36-0	
Arsenic	0.0026J	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 20:38	7440-38-2	
Barium	0.022	mg/L	0.0050	0.00067	1	01/25/22 09:49	01/25/22 20:38	7440-39-3	
Beryllium	0.00015J	mg/L	0.00050	0.000054	1	01/25/22 09:49	01/25/22 20:38	7440-41-7	
Boron	0.077	mg/L	0.040	0.0086	1	01/25/22 09:49	01/25/22 20:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:49	01/25/22 20:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 20:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:49	01/25/22 20:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:49	01/25/22 20:38	7439-92-1	
Lithium	0.0090J	mg/L	0.030	0.00073	1	01/25/22 09:49	01/25/22 20:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:49	01/25/22 20:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:49	01/25/22 20:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:49	01/25/22 20:38	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	01/31/22 15:00	02/01/22 10:39	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	191	mg/L	10.0	10.0	1		01/26/22 17:46		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	82.4	mg/L	5.0	1.8	1		01/25/22 17:43		
Alkalinity,Bicarbonate (CaCO3)	82.4	mg/L	5.0	1.8	1		01/25/22 17:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/25/22 17:43		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.7	mg/L	1.0	0.60	1		01/25/22 21:57	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.050	1		01/25/22 21:57	16984-48-8	
Sulfate	50.2	mg/L	1.0	0.50	1		01/25/22 21:57	14808-79-8	M1

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

**Sample: B-100**      **Lab ID: 92583957003**      Collected: 01/21/22 10:15      Received: 01/21/22 15:32      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/24/22 09:51		
pH	<b>5.23</b>	Std. Units			1		01/24/22 09:51		

**6010D ATL ICP**

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

Potassium	<b>1.5</b>	mg/L	0.20	0.15	1	01/25/22 09:10	01/25/22 16:40	7440-09-7	
Sodium	<b>28.3</b>	mg/L	1.0	0.58	1	01/25/22 09:10	01/25/22 16:40	7440-23-5	
Calcium	<b>49.9</b>	mg/L	1.0	0.12	1	01/25/22 09:10	01/25/22 16:40	7440-70-2	
Magnesium	<b>49.7</b>	mg/L	0.050	0.012	1	01/25/22 09:10	01/25/22 16:40	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	01/25/22 09:49	01/25/22 20:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 20:44	7440-38-2	
Barium	<b>0.023</b>	mg/L	0.0050	0.00067	1	01/25/22 09:49	01/25/22 20:44	7440-39-3	
Beryllium	<b>0.00053</b>	mg/L	0.00050	0.000054	1	01/25/22 09:49	01/25/22 20:44	7440-41-7	
Boron	<b>0.24</b>	mg/L	0.040	0.0086	1	01/25/22 09:49	01/25/22 20:44	7440-42-8	
Cadmium	<b>0.00059</b>	mg/L	0.00050	0.00011	1	01/25/22 09:49	01/25/22 20:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 20:44	7440-47-3	
Cobalt	<b>0.034</b>	mg/L	0.0050	0.00039	1	01/25/22 09:49	01/25/22 20:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:49	01/25/22 20:44	7439-92-1	
Lithium	<b>0.0021J</b>	mg/L	0.030	0.00073	1	01/25/22 09:49	01/25/22 20:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:49	01/25/22 20:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:49	01/25/22 20:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:49	01/25/22 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	01/31/22 15:00	02/01/22 10:42	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>638</b>	mg/L	20.0	20.0	1		01/28/22 10:30		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>32.2</b>	mg/L	5.0	1.8	1		01/25/22 17:47		
Alkalinity,Bicarbonate (CaCO3)	<b>32.2</b>	mg/L	5.0	1.8	1		01/25/22 17:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/25/22 17:47		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>11.3</b>	mg/L	1.0	0.60	1		01/25/22 22:39	16887-00-6	M1
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

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**Sample: B-100**      **Lab ID: 92583957003**      Collected: 01/21/22 10:15      Received: 01/21/22 15:32      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 22:39	16984-48-8	
Sulfate	<b>344</b>	mg/L	8.0	4.0	8		01/26/22 12:13	14808-79-8	M1

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

QC Batch: 673587 Analysis Method: EPA 6010D  
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92583957001, 92583957002, 92583957003

METHOD BLANK: 3525717 Matrix: Water  
 Associated Lab Samples: 92583957001, 92583957002, 92583957003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	01/25/22 14:07	
Magnesium	mg/L	ND	0.050	0.012	01/25/22 14:07	
Potassium	mg/L	ND	0.20	0.15	01/25/22 14:07	
Sodium	mg/L	ND	1.0	0.58	01/25/22 14:07	

LABORATORY CONTROL SAMPLE: 3525718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	108	80-120	
Magnesium	mg/L	1	1.1	110	80-120	
Potassium	mg/L	1	1.1	106	80-120	
Sodium	mg/L	1	1.1	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525719 3525720

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583585001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	10.7	1	1	11.9	11.8	118	113	75-125	0	20
Magnesium	mg/L	3.8	1	1	4.9	4.9	108	109	75-125	0	20
Potassium	mg/L	2.5	1	1	3.6	3.7	111	114	75-125	1	20
Sodium	mg/L	8.2	1	1	9.1	9.3	91	106	75-125	2	20

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

QC Batch: 673617 Analysis Method: EPA 6020B  
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583957001, 92583957002, 92583957003

METHOD BLANK: 3525846 Matrix: Water

Associated Lab Samples: 92583957001, 92583957002, 92583957003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	01/25/22 18:39	
Arsenic	mg/L	ND	0.0050	0.0011	01/25/22 18:39	
Barium	mg/L	ND	0.0050	0.00067	01/25/22 18:39	
Beryllium	mg/L	ND	0.00050	0.000054	01/25/22 18:39	
Boron	mg/L	ND	0.040	0.0086	01/25/22 18:39	
Cadmium	mg/L	ND	0.00050	0.00011	01/25/22 18:39	
Chromium	mg/L	ND	0.0050	0.0011	01/25/22 18:39	
Cobalt	mg/L	ND	0.0050	0.00039	01/25/22 18:39	
Lead	mg/L	ND	0.0010	0.00089	01/25/22 18:39	
Lithium	mg/L	ND	0.030	0.00073	01/25/22 18:39	
Molybdenum	mg/L	ND	0.010	0.00074	01/25/22 18:39	
Selenium	mg/L	ND	0.0050	0.0014	01/25/22 18:39	
Thallium	mg/L	ND	0.0010	0.00018	01/25/22 18:39	

LABORATORY CONTROL SAMPLE: 3525847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.093	93	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.094	94	80-120	
Cobalt	mg/L	0.1	0.090	90	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.093	93	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525848 3525849

Parameter	Units	92583585002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.1	0.11	108	108	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.098	0.095	98	95	75-125	3	20	

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### QUALITY CONTROL DATA

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

Parameter	Units	3525848		3525849		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583585002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.047	0.1	0.1	0.15	0.15	102	107	75-125	4	20		
Beryllium	mg/L	ND	0.1	0.1	0.098	0.092	98	92	75-125	6	20		
Boron	mg/L	ND	1	1	0.99	0.91	99	90	75-125	9	20		
Cadmium	mg/L	ND	0.1	0.1	0.099	0.096	99	96	75-125	3	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	3	20		
Cobalt	mg/L	ND	0.1	0.1	0.099	0.10	99	99	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	3	20		
Lithium	mg/L	0.0085J	0.1	0.1	0.11	0.10	98	95	75-125	3	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20		

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-1, AP-2, 3/4  
 Pace Project No.: 92583957

QC Batch: 674967 Analysis Method: EPA 7470A  
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92583957001, 92583957002, 92583957003

METHOD BLANK: 3532893 Matrix: Water  
 Associated Lab Samples: 92583957001, 92583957002, 92583957003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/01/22 10:19	

LABORATORY CONTROL SAMPLE: 3532894

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: 3532895 3532896

Parameter	Units	92583907032		3532896		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0021	0.0024	85	96	75-125	13	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

QC Batch:	674001	Analysis Method:	SM 2540C-2015
QC Batch Method:	SM 2540C-2015	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	92583957001, 92583957002	Laboratory:	Pace Analytical Services - Peachtree Corners, GA

METHOD BLANK: 3527668 Matrix: Water  
 Associated Lab Samples: 92583957001, 92583957002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	01/26/22 17:40	

LABORATORY CONTROL SAMPLE: 3527669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	377	94	80-120	

SAMPLE DUPLICATE: 3527670

Parameter	Units	92583746001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	214	215	0	25	

SAMPLE DUPLICATE: 3527671

Parameter	Units	92583955001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	177	164	8	25	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-1, AP-2, 3/4  
 Pace Project No.: 92583957

QC Batch: 674255 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: 92583957003

METHOD BLANK: 3528806 Matrix: Water  
 Associated Lab Samples: 92583957003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	01/28/22 10:29	

LABORATORY CONTROL SAMPLE: 3528807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	385	96	80-120	

SAMPLE DUPLICATE: 3528809

Parameter	Units	92584530001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1740	1870	7	25	

SAMPLE DUPLICATE: 3530611

Parameter	Units	92583953011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1520	1540	1	25	

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### QUALITY CONTROL DATA

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

QC Batch: 795302 Analysis Method: SM 2320B  
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Minneapolis  
 Associated Lab Samples: 92583957001, 92583957002, 92583957003

METHOD BLANK: 4229437 Matrix: Water  
 Associated Lab Samples: 92583957001, 92583957002, 92583957003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	01/25/22 15:45	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	01/25/22 15:45	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	01/25/22 15:45	

LABORATORY CONTROL SAMPLE & LCSD: 4229438 4229439

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	40.6	43.0	102	108	90-110	6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4229440 4229441

Parameter	Units	10595205001 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	24.5	40	40	57.6	55.0	83	76	80-120	5	20	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4229637 4229638

Parameter	Units	10594190002 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	330	40	40	368	367	94	92	80-120	0	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

QC Batch: 673554	Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92583957001

METHOD BLANK: 3525639 Matrix: Water

Associated Lab Samples: 92583957001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/25/22 13:04	
Fluoride	mg/L	ND	0.10	0.050	01/25/22 13:04	
Sulfate	mg/L	ND	1.0	0.50	01/25/22 13:04	

LABORATORY CONTROL SAMPLE: 3525640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.9	102	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	51.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525641 3525642

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583953001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	2.0	50	50	53.1	53.7	102	103	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	96	97	90-110	0	10		
Sulfate	mg/L	101	50	50	145	146	89	91	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525643 3525644

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583953001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	2.0	50	50	50.2	52.2	96	101	90-110	4	10		
Fluoride	mg/L	ND	2.5	2.5	2.2	2.6	88	102	90-110	15	10	M1, R1	
Sulfate	mg/L	101	50	50	49.6	48.9	-102	-104	90-110	1	10	M1	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

QC Batch: 673556	Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92583957002, 92583957003

METHOD BLANK: 3525649 Matrix: Water

Associated Lab Samples: 92583957002, 92583957003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/25/22 21:01	
Fluoride	mg/L	ND	0.10	0.050	01/25/22 21:01	
Sulfate	mg/L	ND	1.0	0.50	01/25/22 21:01	

LABORATORY CONTROL SAMPLE: 3525650

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.4	105	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	51.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525651 3525652

Parameter	Units	92583957002		3525651		3525652		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	5.7	5.7	50	50	57.7	57.3	104	103	90-110	1	10	
Fluoride	mg/L	0.11	0.11	2.5	2.5	2.5	2.5	95	96	90-110	1	10	
Sulfate	mg/L	50.2	50.2	50	50	89.5	89.3	79	78	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525653 3525654

Parameter	Units	92583957003		3525653		3525654		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	11.3	11.3	50	50	101	94.6	179	167	90-110	7	10	M1
Fluoride	mg/L	ND	ND	2.5	2.5	2.5	2.5	98	97	90-110	1	10	
Sulfate	mg/L	344	344	50	50	92.4	91.3	-504	-506	90-110	1	10	M1

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## QUALIFIERS

Project: MCDONOUGH AP-1, AP-2, 3/4

Pace Project No.: 92583957

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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

R1 RPD value was outside control limits.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-1, AP-2, 3/4  
Pace Project No.: 92583957

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583957001	B-62				
92583957003	B-100				
92583957001	B-62	EPA 3010A	673587	EPA 6010D	673656
92583957002	DUP-2	EPA 3010A	673587	EPA 6010D	673656
92583957003	B-100	EPA 3010A	673587	EPA 6010D	673656
92583957001	B-62	EPA 3005A	673617	EPA 6020B	673660
92583957002	DUP-2	EPA 3005A	673617	EPA 6020B	673660
92583957003	B-100	EPA 3005A	673617	EPA 6020B	673660
92583957001	B-62	EPA 7470A	674967	EPA 7470A	675135
92583957002	DUP-2	EPA 7470A	674967	EPA 7470A	675135
92583957003	B-100	EPA 7470A	674967	EPA 7470A	675135
92583957001	B-62	SM 2540C-2015	674001		
92583957002	DUP-2	SM 2540C-2015	674001		
92583957003	B-100	SM 2540C-2015	674255		
92583957001	B-62	SM 2320B	795302		
92583957002	DUP-2	SM 2320B	795302		
92583957003	B-100	SM 2320B	795302		
92583957001	B-62	EPA 300.0 Rev 2.1 1993	673554		
92583957002	DUP-2	EPA 300.0 Rev 2.1 1993	673556		
92583957003	B-100	EPA 300.0 Rev 2.1 1993	673556		

### REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #: **WO#: 92583957**



Courier:  Commercial  Fed Ex  UPS  USPS  Other  Client

Custody Seal Present?  Yes  No Seal Intact?  Yes  No

Date/Initials Person Examining Contents: MT 11/21/22

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  IR Gun ID: 083 Type of Ice:  Clear  Blue  None

Cooler Temp: 3.7 Connection Factor: Add/Subtract (°C) ± 0.2

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

Cooler Temp Corrected (°C): 3.9

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 Mexico and Puerto Rico)?  Yes  No

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCUR Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_



Document Name:  
Sample Condition Upon Receipt (SCUR)  
Document No.:  
F-CAR-C3-013-Rev.08

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

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/BO15 (water) DOC, L/Hg

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

Project # **W0# : 92583957**

PH: NHC

Due Date: 02/04/22

CLIENT: GR-GR Power

Sample #	Material	1	2	3	4	5	6	7	8	9	10	11	12
BP00-125 ml, Plastic Unpreserved (N/A) (C1)		/	/	/	/	/	/	/	/	/	/	/	/
BP00-250 ml, Plastic Unpreserved (N/A)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BP00-500 ml, Plastic Unpreserved (N/A)		-	-	-	-	-	-	-	-	-	-	-	-
BP10-1 liter Plastic Unpreserved (N/A)													
BP00-125 ml, Plastic H2SO4 (pH = 2) (C1)		/	/	/	/	/	/	/	/	/	/	/	/
BP00-250 ml, plastic HNO3 (pH = 2)		/	/	/	/	/	/	/	/	/	/	/	/
BP00-125 ml, Plastic 2% Acetate & NaOH (v/v)		/	/	/	/	/	/	/	/	/	/	/	/
BP00-125 ml, Plastic NaOH (pH = 12) (C1)		/	/	/	/	/	/	/	/	/	/	/	/
W00U Whole mouthed Glass Jar Unpreserved													
A0200-1 liter Amber Unpreserved (N/A) (C1)													
A0200-1 liter Amber HCl (pH = 2)													
A0200-250 ml, Amber Unpreserved (N/A) (C1)													
A0200-1 liter Amber H2SO4 (pH = 2)													
A0200-250 ml, Amber H2SO4 (pH = 2)													
A0200-250 ml, Amber HNO3 (pH = 2)													
A0200-250 ml, Amber H2O2 (N/A)(C1)													
50000-60 ml, VOA HCl (N/A)													
W000-45 ml, VOA H2SO4 (N/A)													
W000-60 ml, VOA Unpreserved (N/A)													
50000-60 ml, VOA H2PO4 (N/A)													
V0000 (3 vials per bag) S010-10 (N/A)													
V000 (3 vials per bag) V000000000 (N/A)													
SP000-125 ml, Metalic Plastic (N/A - 000)													
SP000-250 ml, Metalic Plastic (N/A - 000)													
	BPIN												
BP00-250 ml, Plastic H2SO4 (pH = 2) (C1)		/	/	/	/	/	/	/	/	/	/	/	/
A0200-100 ml, Amber Unpreserved vials (N/A)													
V0000-20 ml, Scintillation vials (N/A)													
D0000-60 ml, Amber Unpreserved vials (N/A)													

**pH Adjustment Log for Preserved Samples**

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

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

*Handwritten mark*

**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a USDOJ DOCUMENT. All relevant fields must be completed accurately.

Page 1 of 1

<b>Section I</b>	<b>Section II</b>	<b>Section III</b>
Special Agent Investigator: _____ Project Name: _____ Case Number: _____ Date: _____	Number of Project Submissions: _____ Project ID: _____ Date: _____ Project Name: _____ Project Start Date: _____	Agency: _____ Project Manager: _____ Date: _____ Project End Date: _____

ITEM #	SAMPLE ID	ANALYSIS CODE	SAMPLE TYPE	DATE	TIME	ANALYSIS TEST	ANALYSIS RESULT	ANALYST	DATE	SIGNATURE
1	B-01									
2										
3										
4	B-02									
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										

APPROVAL COMMENTS	APPROVED BY	DATE	APPROVED BY	DATE	APPROVED BY	DATE	APPROVED BY	DATE
	<i>[Signature]</i>	10/1/11	<i>[Signature]</i>	10/1/11	<i>[Signature]</i>	10/1/11	<i>[Signature]</i>	10/1/11

*John Rodriguez / 10/1/11*



March 02, 2022

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

RE: Project: MCDONOUGH AP-1, AP-2, 3/4 RAD  
Pace Project No.: 92583952

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on January 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

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

Sincerely,

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

Enclosures

cc: Stephen Benda  
Anna Bottum, ERM  
Andrea Brazell, ERM  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power  
Kristen Jurinko  
J. Shelby Mobley  
Charles Norton, Southern Company  
Ms. Lauren Petty, Southern Company  
Dawn Prell, Golder Associates Inc.  
Tim Richards, Golder Associates - Atlanta  
Lacy Smith, ERM  
Caitlin Tillema, ERM

Christine Weaver, ERM



**REPORT OF LABORATORY ANALYSIS**

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## CERTIFICATIONS

Project: MCDONOUGH AP-1, AP-2, 3/4 RAD  
Pace Project No.: 92583952

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### 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-1, AP-2, 3/4 RAD  
Pace Project No.: 92583952

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92583952001	B-62	Water	01/20/22 15:05	01/21/22 15:32
92583952002	DUP-2	Water	01/20/22 00:00	01/21/22 15:32
92583952003	B-100	Water	01/21/22 10:12	01/21/22 15:32

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-1, AP-2, 3/4 RAD

Pace Project No.: 92583952

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583952001	B-62	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583952002	DUP-2	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583952003	B-100	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

### REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-1, AP-2, 3/4 RAD

Pace Project No.: 92583952

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-62</b> <b>Lab ID: 92583952001</b> Collected: 01/20/22 15:05      Received: 01/21/22 15:32      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.869 ± 0.295 (0.267)</b> <b>C:94% T:NA</b>	pCi/L	02/16/22 10:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.844 ± 0.453 (0.793)</b> <b>C:68% T:81%</b>	pCi/L	02/14/22 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.71 ± 0.748 (1.06)</b>	pCi/L	02/17/22 13:33	7440-14-4	

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-1, AP-2, 3/4 RAD

Pace Project No.: 92583952

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DUP-2</b> <b>Lab ID: 92583952002</b> Collected: 01/20/22 00:00      Received: 01/21/22 15:32      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.493 ± 0.228 (0.284)</b> <b>C:94% T:NA</b>	pCi/L	02/16/22 10:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.244 ± 0.386 (0.837)</b> <b>C:65% T:88%</b>	pCi/L	02/14/22 16:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.737 ± 0.614 (1.12)</b>	pCi/L	02/17/22 13:33	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-1, AP-2, 3/4 RAD

Pace Project No.: 92583952

**Sample: B-100**      **Lab ID: 92583952003**      Collected: 01/21/22 10:12      Received: 01/21/22 15:32      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	<b>0.0921 ± 0.125 (0.262)</b> <b>C:95% T:NA</b>	pCi/L	02/16/22 10:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.677 ± 0.431 (0.810)</b> <b>C:70% T:85%</b>	pCi/L	02/14/22 16:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.769 ± 0.556 (1.07)</b>	pCi/L	02/17/22 13:33	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-1, AP-2, 3/4 RAD

Pace Project No.: 92583952

QC Batch: 481463

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92583952001, 92583952002, 92583952003

METHOD BLANK: 2326512

Matrix: Water

Associated Lab Samples: 92583952001, 92583952002, 92583952003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00174 ± 0.0889 (0.253) C:96% T:NA	pCi/L	02/16/22 10:30	

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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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-1, AP-2, 3/4 RAD

Pace Project No.: 92583952

QC Batch: 482061

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92583952001, 92583952002, 92583952003

METHOD BLANK: 2330295

Matrix: Water

Associated Lab Samples: 92583952001, 92583952002, 92583952003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.129 ± 0.257 (0.566) C:88% T:86%	pCi/L	02/14/22 12:35	

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

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## QUALIFIERS

Project: MCDONOUGH AP-1, AP-2, 3/4 RAD

Pace Project No.: 92583952

---

### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-1, AP-2, 3/4 RAD

Pace Project No.: 92583952

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583952001	B-62	EPA 9315	481463		
92583952002	DUP-2	EPA 9315	481463		
92583952003	B-100	EPA 9315	481463		
92583952001	B-62	EPA 9320	482061		
92583952002	DUP-2	EPA 9320	482061		
92583952003	B-100	EPA 9320	482061		
92583952001	B-62	Total Radium Calculation	484619		
92583952002	DUP-2	Total Radium Calculation	484619		
92583952003	B-100	Total Radium Calculation	484619		

### REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia Power

Project #:

WO#: 92583952



Carrier:

Commercial

Fed Ex

UPS

USPS

Client

Pace

Other

Custody Seal Present?

Yes

No

Seals Intact?

Yes

No

Date/Initials Person Examining Contents: MT 11/21/22

Packing Material:

Bubble Wrap

Bubble Bags

None

Other

Biological Tissue Frozen?

Yes

No

N/A

Thermometer:

IR Gun ID:

083

Type of Ice:

Wet

Blue

None

Cooler Temp:

3.7

Correction Factor:

Add/Subtract (°C)

± 0.2

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C):

3.9

USDA Regulated Soil (  N/A, water sample)

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

Yes  No

Did samples originate from a foreign source (internationally, including Mexico and Puerto Rico)?

Yes  No

Comments/Discrepancy:

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCUR Review:

Date:

Project Manager SRP Review:

Date:



\*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, DRB/ROD (water) DOC, LMG

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

Project #

**WO# : 92583952**

PR: NHG

Due Date: 02/11/22

CLIENT: GR-GR Power

Item #	Description	1	2	3	4	5	6	7	8	9	10	11	12
BP40-120 ml, Plastic Unpreserved (N/A) (2)		/	/	/	/	/	/	/	/	/	/	/	/
BP10-250 ml, Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP20-500 ml, Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP70-1 liter Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP40-120 ml, Plastic HD504 (pH < 2) (2)		/	/	/	/	/	/	/	/	/	/	/	/
BP70-250 ml, Plastic HD504 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
BP40-120 ml, Plastic HD Acetate & NaOH (pH)		/	/	/	/	/	/	/	/	/	/	/	/
BP40-120 ml, Plastic HD (pH < 12) (2)		/	/	/	/	/	/	/	/	/	/	/	/
W070-Wide mouthed Glass jar Unpreserved		/	/	/	/	/	/	/	/	/	/	/	/
AG10-1 liter Amber Unpreserved (N/A) (2)		/	/	/	/	/	/	/	/	/	/	/	/
AG20-1 liter Amber HD (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG30-250 ml, Amber Unpreserved (N/A) (2)		/	/	/	/	/	/	/	/	/	/	/	/
AG10-1 liter Amber HD504 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG20-250 ml, Amber HD504 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG1000000-250 ml, Amber HD (N/A) (2)		/	/	/	/	/	/	/	/	/	/	/	/
BO40-40 ml, VOA HD (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VO40-40 ml, VOA HD (20) (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VO40-40 ml, VOA Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
DO40-40 ml, VOA HD (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VO40 (3 vials per bag) (20) (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V100 (3 vials per bag) (20) (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
SP10-120 ml, Sterile Plastic (N/A - 1st)		/	/	/	/	/	/	/	/	/	/	/	/
SP20-250 ml, Sterile Plastic (N/A - 1st)		/	/	/	/	/	/	/	/	/	/	/	/
B.P.M.													
BP40-120 ml, Plastic HD504 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG10-1 liter Amber Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VO40-40 ml, VOA (20) (N/A)		/	/	/	/	/	/	/	/	/	/	/	/

**pH Adjustment Log for Preserved Samples**

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

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

*Revised*

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

Page: 1 of 1

<b>Section I</b> Request/Project Information Agency: <u>State Police</u> Request No: <u>123456789</u> Date: <u>10/15/2023</u> Requested By: <u>[Signature]</u>	<b>Section II</b> Sample Information Sample ID: <u>SP-2023-1015-001</u> Quantity: <u>1</u> Container: <u>100% Pure</u> Date Collected: <u>10/15/2023</u> Location: <u>[Signature]</u>
---	---

ITEM #	Description	Quantity	Date	Time	Signature	Title	Analysis Test		Y/N	Remarks
							Test Name	Result		
1	SAMPLE ID	1	10/15/2023	10:00	[Signature]	Officer	FL 7 804 720	FL 7 804 720	Y	
2	One Container per box	1	10/15/2023	10:00	[Signature]	Officer	FL 7 804 720	FL 7 804 720	Y	
3	Sample for send to lab	1	10/15/2023	10:00	[Signature]	Officer	FL 7 804 720	FL 7 804 720	Y	
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										

*State Police / SP-2023-1015-001*

### Quality Control Sample Performance Assessment

LABORATORY #

LABORATORY NAME

DATE

LABORATORY ADDRESS

Sample Name	Lot #	Exp. Date
1. Control 1	12345	12/31/2023
2. Control 2	67890	12/31/2023
3. Control 3	11111	12/31/2023
4. Control 4	22222	12/31/2023
5. Control 5	33333	12/31/2023

Sample Name	Lot #	Exp. Date	Test Results
1. Control 1	12345	12/31/2023	100%
2. Control 2	67890	12/31/2023	100%
3. Control 3	11111	12/31/2023	100%
4. Control 4	22222	12/31/2023	100%
5. Control 5	33333	12/31/2023	100%

Sample Name	Lot #	Exp. Date	Test Results
1. Control 1	12345	12/31/2023	100%
2. Control 2	67890	12/31/2023	100%
3. Control 3	11111	12/31/2023	100%
4. Control 4	22222	12/31/2023	100%
5. Control 5	33333	12/31/2023	100%

Sample Name	Lot #	Exp. Date	Test Results
1. Control 1	12345	12/31/2023	100%
2. Control 2	67890	12/31/2023	100%
3. Control 3	11111	12/31/2023	100%
4. Control 4	22222	12/31/2023	100%
5. Control 5	33333	12/31/2023	100%

Sample Name	Lot #	Exp. Date	Test Results
1. Control 1	12345	12/31/2023	100%
2. Control 2	67890	12/31/2023	100%
3. Control 3	11111	12/31/2023	100%
4. Control 4	22222	12/31/2023	100%
5. Control 5	33333	12/31/2023	100%

Comments

*Handwritten signature*

DATE

## Quality Control Sample Performance Assessment

QCC  
 QCC  
 QCC

(Insert your Name and the Date of the Assessment)

QCC  
 QCC  
 QCC

<p>QCC          QCC          QCC</p>	<p>QCC          QCC          QCC</p>	<p>QCC          QCC          QCC</p>	<p>QCC          QCC          QCC</p>
<p>QCC          QCC          QCC</p>	<p>QCC          QCC          QCC</p>	<p>QCC          QCC          QCC</p>	<p>QCC          QCC          QCC</p>

**QCC**



March 03, 2022

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

RE: Project: MCDONOUGH AP-2, 3/4  
Pace Project No.: 92583953

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between January 21, 2022 and January 27, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

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

Enclosures

cc: Stephen Benda  
Anna Bottum, ERM  
Andrea Brazell, ERM  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power  
Kristen Jurinko  
J. Shelby Mobley  
Charles Norton, Southern Company  
Ms. Lauren Petty, Southern Company

Dawn Prell, Golder Associates Inc.  
Tim Richards, Golder Associates - Atlanta  
Lacy Smith, ERM  
Caitlin Tillema, ERM  
Christine Weaver, ERM



### REPORT OF LABORATORY ANALYSIS

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### CERTIFICATIONS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

#### Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414  
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

- A2LA Certification #: 2926.01\*
- Alabama Certification #: 40770
- Alaska Contaminated Sites Certification #: 17-009\*
- Alaska DW Certification #: MN00064
- Arizona Certification #: AZ0014\*
- Arkansas DW Certification #: MN00064
- Arkansas WW Certification #: 88-0680
- California Certification #: 2929
- Colorado Certification #: MN00064
- Connecticut Certification #: PH-0256
- EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
- Florida Certification #: E87605\*
- Georgia Certification #: 959
- Hawaii Certification #: MN00064
- Idaho Certification #: MN00064
- Illinois Certification #: 200011
- Indiana Certification #: C-MN-01
- Iowa Certification #: 368
- Kansas Certification #: E-10167
- Kentucky DW Certification #: 90062
- Kentucky WW Certification #: 90062
- Louisiana DEQ Certification #: AI-03086\*
- Louisiana DW Certification #: MN00064
- Maine Certification #: MN00064\*
- Maryland Certification #: 322
- Michigan Certification #: 9909
- Minnesota Certification #: 027-053-137\*
- Minnesota Dept of Ag Approval: via MN 027-053-137
- Minnesota Petrofund Registration #: 1240\*
- Mississippi Certification #: MN00064

- Missouri Certification #: 10100
  - Montana Certification #: CERT0092
  - Nebraska Certification #: NE-OS-18-06
  - Nevada Certification #: MN00064
  - New Hampshire Certification #: 2081\*
  - New Jersey Certification #: MN002
  - New York Certification #: 11647\*
  - North Carolina DW Certification #: 27700
  - North Carolina WW Certification #: 530
  - North Dakota Certification #: R-036
  - Ohio DW Certification #: 41244
  - Ohio VAP Certification (1700) #: CL101
  - Ohio VAP Certification (1800) #: CL110\*
  - Oklahoma Certification #: 9507\*
  - Oregon Primary Certification #: MN300001
  - Oregon Secondary Certification #: MN200001\*
  - Pennsylvania Certification #: 68-00563\*
  - Puerto Rico Certification #: MN00064
  - South Carolina Certification #:74003001
  - Tennessee Certification #: TN02818
  - Texas Certification #: T104704192\*
  - Utah Certification #: MN00064\*
  - Vermont Certification #: VT-027053137
  - Virginia Certification #: 460163\*
  - Washington Certification #: C486\*
  - West Virginia DEP Certification #: 382
  - West Virginia DW Certification #: 9952 C
  - Wisconsin Certification #: 999407970
  - Wyoming UST Certification #: via A2LA 2926.01
  - USDA Permit #: P330-19-00208
- \*Please Note: Applicable air certifications are denoted with an asterisk (\*).

#### Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006  
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
South Carolina Laboratory ID: 99006

- South Carolina Certification #: 99006001
- South Carolina Drinking Water Cert. #: 99006003
- Florida/NELAP Certification #: E87627
- Kentucky UST Certification #: 84
- Louisiana DoH Drinking Water #: LA029
- Virginia/VELAP Certification #: 460221

#### Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804  
Florida/NELAP Certification #: E87648  
North Carolina Drinking Water Certification #: 37712  
North Carolina Wastewater Certification #: 40

- South Carolina Laboratory ID: 99030
- South Carolina Certification #: 99030001
- Virginia/VELAP Certification #: 460222

#### Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092  
Florida DOH Certification #: E87315

- Georgia DW Inorganics Certification #: 812
- North Carolina Certification #: 381

### REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MCDONOUGH AP-2, 3/4  
Pace Project No.: 92583953

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**Pace Analytical Services Peachtree Corners**  
South Carolina Certification #: 98011001

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92583953001	DGWC-2	Water	01/20/22 11:03	01/21/22 15:32
92583953002	DGWC-21	Water	01/20/22 16:13	01/21/22 15:32
92583953003	DGWC-22	Water	01/20/22 12:55	01/21/22 15:32
92583953004	DGWC-23	Water	01/20/22 10:55	01/21/22 15:32
92583953005	DGWC-42	Water	01/20/22 14:28	01/21/22 15:32
92583953006	FB-1	Water	01/20/22 12:40	01/21/22 15:32
92583953007	FB-2	Water	01/20/22 14:28	01/21/22 15:32
92583953008	DGWC-20	Water	01/21/22 11:15	01/21/22 15:32
92583953009	DGWC-47	Water	01/21/22 09:23	01/21/22 15:32
92583953010	FB-3	Water	01/21/22 11:55	01/21/22 15:32
92583953011	DGWC-4	Water	01/24/22 13:10	01/25/22 09:04
92583953012	DGWC-5	Water	01/24/22 10:32	01/25/22 09:04
92583953013	DGWC-15	Water	01/24/22 14:59	01/25/22 09:04
92583953014	DGWC-17	Water	01/24/22 14:46	01/25/22 09:04
92583953015	DGWC-48	Water	01/24/22 10:10	01/25/22 09:04
92583953016	EB-4	Water	01/24/22 14:55	01/25/22 09:04
92583953017	FB-4	Water	01/24/22 15:55	01/25/22 09:04
92583953018	DUP-4	Water	01/24/22 00:00	01/25/22 09:04
92583953019	DGWC-8	Water	01/25/22 11:45	01/26/22 08:51
92583953020	DGWC-11	Water	01/25/22 15:16	01/26/22 08:51
92583953021	DGWC-12	Water	01/25/22 10:48	01/26/22 08:51
92583953022	DGWC-13	Water	01/25/22 11:05	01/26/22 08:51
92583953023	DGWC-14	Water	01/25/22 09:47	01/26/22 08:51
92583953024	DGWC-19	Water	01/25/22 14:40	01/26/22 08:51
92583953025	FB-5	Water	01/25/22 10:15	01/26/22 08:51
92583953026	DGWC-9	Water	01/26/22 16:30	01/27/22 08:50
92583953027	DGWC-10	Water	01/26/22 14:30	01/27/22 08:50
92583953028	FB-6	Water	01/26/22 17:10	01/27/22 08:50
92583953029	DUP-5	Water	01/26/22 00:00	01/27/22 08:50

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583953001	DGWC-2	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
92583953002	DGWC-21	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583953003	DGWC-22	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
92583953004	DGWC-23	SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
92583953005	DGWC-42	EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
92583953006	FB-1	EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583953007	FB-2	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1, KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4  
 Pace Project No.: 92583953

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583953008	DGWC-20	EPA 6020B	CW1, KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1, KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
92583953009	DGWC-47	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1, KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1, KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
92583953010	FB-3	SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1, KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
92583953011	DGWC-4	EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
92583953012	DGWC-5	EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
92583953013	DGWC-15	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583953014	DGWC-17	EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583953015	DGWC-48	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92583953016	EB-4	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
92583953017	FB-4	EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583953018	DUP-4	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92583953019	DGWC-8	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA

**REPORT OF LABORATORY ANALYSIS**

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4  
 Pace Project No.: 92583953

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583953020	DGWC-11	SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583953021	DGWC-12	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
92583953022	DGWC-13	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583953023	DGWC-14	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
92583953024	DGWC-19	EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
92583953025	FB-5	EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583953026	DGWC-9	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583953027	DGWC-10	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583953028	FB-6	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583953029	DUP-5	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA

PASI-A = Pace Analytical Services - Asheville  
 PASI-C = Pace Analytical Services - Charlotte  
 PASI-GA = Pace Analytical Services - Peachtree Corners, GA  
 PASI-M = Pace Analytical Services - Minneapolis

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

**Sample: DGWC-2**      **Lab ID: 92583953001**      Collected: 01/20/22 11:03      Received: 01/21/22 15:32      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/24/22 09:40		
pH	<b>5.93</b>	Std. Units			1		01/24/22 09:40		

**6010D ATL ICP**

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

Potassium	<b>6.0</b>	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 17:03	7440-09-7	
Sodium	<b>10.4</b>	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 17:03	7440-23-5	M1
Calcium	<b>44.6</b>	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 17:03	7440-70-2	M1
Magnesium	<b>9.2</b>	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 17:03	7439-95-4	

**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 13:02	7440-36-0	
Arsenic	<b>0.0023J</b>	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 13:02	7440-38-2	
Barium	<b>0.022</b>	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 13:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 13:02	7440-41-7	
Boron	<b>0.50</b>	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 13:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 13:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 13:02	7440-47-3	
Cobalt	<b>0.0040J</b>	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 13:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 13:02	7439-92-1	
Lithium	<b>0.024J</b>	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 13:02	7439-93-2	
Molybdenum	<b>0.0022J</b>	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 13:02	7439-98-7	
Selenium	<b>0.0031J</b>	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 13:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/26/22 13:02	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	01/31/22 15:00	02/01/22 12:27	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>238</b>	mg/L	10.0	10.0	1		01/26/22 17:41		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>48.7</b>	mg/L	5.0	1.8	1		01/25/22 21:38		
Alkalinity,Bicarbonate (CaCO3)	<b>48.7</b>	mg/L	5.0	1.8	1		01/25/22 21:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/25/22 21:38		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>2.0</b>	mg/L	1.0	0.60	1		01/25/22 13:46	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

**Sample: DGWC-2**      **Lab ID: 92583953001**      Collected: 01/20/22 11:03      Received: 01/21/22 15:32      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**      Analytical Method: EPA 300.0 Rev 2.1 1993  
 Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 13:46	16984-48-8	M1,R1
Sulfate	<b>101</b>	mg/L	2.0	1.0	2		01/26/22 07:29	14808-79-8	M1

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

**Sample: DGWC-21**      **Lab ID: 92583953002**      Collected: 01/20/22 16:13      Received: 01/21/22 15:32      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/24/22 09:40		
pH	<b>5.73</b>	Std. Units			1		01/24/22 09:40		

**6010D ATL ICP**

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

Potassium	<b>6.8</b>	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 18:12	7440-09-7	
Sodium	<b>23.0</b>	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 18:12	7440-23-5	
Calcium	<b>83.7</b>	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 18:12	7440-70-2	
Magnesium	<b>17.1</b>	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 18:12	7439-95-4	

**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 13:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 13:08	7440-38-2	
Barium	<b>0.024</b>	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 13:08	7440-39-3	
Beryllium	<b>0.00019J</b>	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 13:08	7440-41-7	
Boron	<b>6.9</b>	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 13:08	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 13:08	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 13:08	7440-47-3	
Cobalt	<b>0.0076</b>	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 13:08	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 13:08	7439-92-1	
Lithium	<b>0.0058J</b>	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 13:08	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 13:08	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 13:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/26/22 13:08	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	01/31/22 15:00	02/01/22 12:30	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>451</b>	mg/L	10.0	10.0	1		01/26/22 17:41		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO <sub>3</sub>	<b>29.9</b>	mg/L	5.0	1.8	1		01/25/22 21:42		
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	<b>29.9</b>	mg/L	5.0	1.8	1		01/25/22 21:42		
Alkalinity,Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	1.8	1		01/25/22 21:42		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>18.6</b>	mg/L	1.0	0.60	1		01/25/22 15:13	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

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**Sample: DGWC-21**      **Lab ID: 92583953002**      Collected: 01/20/22 16:13      Received: 01/21/22 15:32      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
 Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 15:13	16984-48-8	
Sulfate	<b>223</b>	mg/L	5.0	2.5	5		01/26/22 08:26	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

**Sample: DGWC-22**      **Lab ID: 92583953003**      Collected: 01/20/22 12:55      Received: 01/21/22 15:32      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/24/22 09:40		
pH	<b>5.72</b>	Std. Units			1		01/24/22 09:40		

**6010D ATL ICP**

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

Potassium	<b>6.8</b>	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 18:16	7440-09-7	
Sodium	<b>30.6</b>	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 18:16	7440-23-5	
Calcium	<b>67.3</b>	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 18:16	7440-70-2	
Magnesium	<b>23.5</b>	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 18:16	7439-95-4	

**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 13:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 13:32	7440-38-2	
Barium	<b>0.029</b>	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 13:32	7440-39-3	
Beryllium	<b>0.00014J</b>	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 13:32	7440-41-7	
Boron	<b>4.2</b>	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 13:32	7440-42-8	
Cadmium	<b>0.00052</b>	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 13:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 13:32	7440-47-3	
Cobalt	<b>0.0075</b>	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 13:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 13:32	7439-92-1	
Lithium	<b>0.0032J</b>	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 13:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 13:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 13:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/26/22 13:32	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	01/31/22 15:00	02/01/22 12:32	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>434</b>	mg/L	10.0	10.0	1		01/26/22 17:41		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>24.4</b>	mg/L	5.0	1.8	1		01/25/22 21:46		
Alkalinity,Bicarbonate (CaCO3)	<b>24.4</b>	mg/L	5.0	1.8	1		01/25/22 21:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/25/22 21:46		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>18.1</b>	mg/L	1.0	0.60	1		01/25/22 15:27	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

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**Sample: DGWC-22**      **Lab ID: 92583953003**      Collected: 01/20/22 12:55      Received: 01/21/22 15:32      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
 Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 15:27	16984-48-8	
Sulfate	221	mg/L	5.0	2.5	5		01/26/22 09:08	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

**Sample: DGWC-23**      **Lab ID: 92583953004**      Collected: 01/20/22 10:55      Received: 01/21/22 15:32      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/24/22 09:40		
pH	<b>5.95</b>	Std. Units			1		01/24/22 09:40		

**6010D ATL ICP**

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

Potassium	<b>7.0</b>	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 18:21	7440-09-7	
Sodium	<b>22.6</b>	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 18:21	7440-23-5	
Calcium	<b>82.7</b>	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 18:21	7440-70-2	
Magnesium	<b>19.9</b>	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 18:21	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	01/25/22 09:47	01/26/22 13:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 13:38	7440-38-2	
Barium	<b>0.024</b>	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 13:38	7440-39-3	
Beryllium	<b>0.00046J</b>	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 13:38	7440-41-7	
Boron	<b>4.5</b>	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 13:38	7440-42-8	
Cadmium	<b>0.00012J</b>	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 13:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 13:38	7440-47-3	
Cobalt	<b>0.00058J</b>	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 13:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 13:38	7439-92-1	
Lithium	<b>0.0029J</b>	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 13:38	7439-93-2	
Molybdenum	<b>0.0073J</b>	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 13:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 13:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/26/22 13:38	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	01/31/22 15:00	02/01/22 12:35	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>453</b>	mg/L	10.0	10.0	1		01/26/22 17:41		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>72.8</b>	mg/L	5.0	1.8	1		01/25/22 21:50		
Alkalinity,Bicarbonate (CaCO3)	<b>72.8</b>	mg/L	5.0	1.8	1		01/25/22 21:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/25/22 21:50		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>12.0</b>	mg/L	1.0	0.60	1		01/25/22 15:41	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: **DGWC-23** Lab ID: **92583953004** Collected: 01/20/22 10:55 Received: 01/21/22 15:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 15:41	16984-48-8	
Sulfate	211	mg/L	5.0	2.5	5		01/26/22 09:21	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

**Sample: DGWC-42**      **Lab ID: 92583953005**      Collected: 01/20/22 14:28      Received: 01/21/22 15:32      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		01/24/22 09:40		
pH	<b>5.27</b>	Std. Units			1		01/24/22 09:40		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>5.2</b>	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 18:26	7440-09-7	
Sodium	<b>62.3</b>	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 18:26	7440-23-5	
Calcium	<b>38.1</b>	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 18:26	7440-70-2	
Magnesium	<b>29.7</b>	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 18:26	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 13:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 13:44	7440-38-2	
Barium	<b>0.014</b>	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 13:44	7440-39-3	
Beryllium	<b>0.0020</b>	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 13:44	7440-41-7	
Boron	<b>0.83</b>	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 13:44	7440-42-8	
Cadmium	<b>0.00038J</b>	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 13:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 13:44	7440-47-3	
Cobalt	<b>0.0056</b>	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 13:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 13:44	7439-92-1	
Lithium	<b>0.0069J</b>	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 13:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 13:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 13:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/26/22 13:44	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	01/31/22 15:00	02/01/22 12:38	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>504</b>	mg/L	20.0	20.0	1		01/26/22 17:42		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	<b>9.1</b>	mg/L	5.0	1.8	1		01/25/22 21:57		
Alkalinity,Bicarbonate (CaCO3)	<b>9.1</b>	mg/L	5.0	1.8	1		01/25/22 21:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/25/22 21:57		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>18.2</b>	mg/L	1.0	0.60	1		01/25/22 16:23	16887-00-6	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: **DGWC-42** Lab ID: **92583953005** Collected: 01/20/22 14:28 Received: 01/21/22 15:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 16:23	16984-48-8	
Sulfate	<b>281</b>	mg/L	6.0	3.0	6		01/26/22 09:35	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4  
 Pace Project No.: 92583953

**Sample: FB-1**      **Lab ID: 92583953006**      Collected: 01/20/22 12:40      Received: 01/21/22 15:32      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 18:31	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 18:31	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 18:31	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 18:31	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 19:34	7440-36-0	
Arsenic	<b>0.0012J</b>	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 19:34	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 19:34	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 19:34	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 19:34	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 19:34	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 19:34	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 19:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 19:34	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 19:34	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 19:34	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 19:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/28/22 09:27	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	01/31/22 15:00	02/01/22 12:40	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>13.0</b>	mg/L	10.0	10.0	1		01/26/22 17:42		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		01/26/22 18:57		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 18:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 18:57		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		01/25/22 16:37	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 16:37	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/25/22 16:37	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4  
 Pace Project No.: 92583953

**Sample: FB-2**      **Lab ID: 92583953007**      Collected: 01/20/22 14:28      Received: 01/21/22 15:32      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 18:35	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 18:35	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 18:35	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 18:35	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 19:40	7440-36-0	
Arsenic	<b>0.0013J</b>	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 19:40	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 19:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 19:40	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 19:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 19:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 19:40	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 19:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 19:40	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 19:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 19:40	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 19:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/28/22 09:33	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	01/31/22 15:00	02/01/22 12:43	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		01/26/22 17:43		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		01/26/22 19:00		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 19:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 19:00		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		01/25/22 16:50	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 16:50	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/25/22 16:50	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

**Sample: DGWC-20**      **Lab ID: 92583953008**      Collected: 01/21/22 11:15      Received: 01/21/22 15:32      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/24/22 09:41		
pH	<b>4.47</b>	Std. Units			1		01/24/22 09:41		

**6010D ATL ICP**

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

Potassium	<b>12.8</b>	mg/L	1.0	0.76	5	01/25/22 09:12	01/26/22 14:21	7440-09-7	
Sodium	<b>20.6</b>	mg/L	5.0	2.9	5	01/25/22 09:12	01/26/22 14:21	7440-23-5	
Calcium	<b>104</b>	mg/L	5.0	0.61	5	01/25/22 09:12	01/26/22 14:21	7440-70-2	
Magnesium	<b>27.3</b>	mg/L	0.25	0.059	5	01/25/22 09:12	01/26/22 14:21	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	01/25/22 09:47	01/26/22 21:10	7440-36-0	
Arsenic	<b>0.015</b>	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 21:10	7440-38-2	
Barium	<b>0.018</b>	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 21:10	7440-39-3	
Beryllium	<b>0.0070</b>	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 21:10	7440-41-7	
Boron	<b>3.6</b>	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 21:10	7440-42-8	
Cadmium	<b>0.0028</b>	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 21:10	7440-43-9	
Chromium	<b>0.0021J</b>	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 21:10	7440-47-3	
Cobalt	<b>0.95</b>	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 21:10	7440-48-4	
Lead	ND	mg/L	0.010	0.0089	10	01/25/22 09:47	01/26/22 19:46	7439-92-1	D3
Lithium	<b>0.012J</b>	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 21:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 21:10	7439-98-7	
Selenium	<b>0.041</b>	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 21:10	7782-49-2	
Thallium	ND	mg/L	0.010	0.0018	10	01/25/22 09:47	01/28/22 09:39	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	01/31/22 15:00	02/01/22 12:46	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>702</b>	mg/L	20.0	20.0	1		01/28/22 10:30		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		01/26/22 19:02		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 19:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 19:02		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>27.0</b>	mg/L	1.0	0.60	1		01/25/22 17:04	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

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**Sample: DGWC-20**      **Lab ID: 92583953008**      Collected: 01/21/22 11:15      Received: 01/21/22 15:32      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	<b>1.3</b>	mg/L	0.10	0.050	1		01/25/22 17:04	16984-48-8	
Sulfate	<b>406</b>	mg/L	10.0	5.0	10		01/26/22 09:49	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

**Sample: DGWC-47**      **Lab ID: 92583953009**      Collected: 01/21/22 09:23      Received: 01/21/22 15:32      Matrix: Water

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

Analytical Method:  
 Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/24/22 09:41		
pH	<b>3.72</b>	Std. Units			1		01/24/22 09:41		

**6010D ATL ICP**

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

Potassium	<b>6.4</b>	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 18:54	7440-09-7	
Sodium	<b>9.3</b>	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 18:54	7440-23-5	
Calcium	<b>31.0</b>	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 18:54	7440-70-2	
Magnesium	<b>9.0</b>	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 18:54	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	01/25/22 09:47	01/26/22 19:52	7440-36-0	
Arsenic	<b>0.0036J</b>	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 19:52	7440-38-2	
Barium	<b>0.017</b>	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 19:52	7440-39-3	
Beryllium	<b>0.010</b>	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 19:52	7440-41-7	
Boron	<b>0.17</b>	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 19:52	7440-42-8	
Cadmium	<b>0.0019</b>	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 19:52	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 19:52	7440-47-3	
Cobalt	<b>0.24</b>	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 19:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 19:52	7439-92-1	
Lithium	<b>0.055</b>	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 19:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 19:52	7439-98-7	
Selenium	<b>0.0016J</b>	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 19:52	7782-49-2	
Thallium	<b>0.00028J</b>	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/28/22 09:45	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 13:23	7439-97-6	M1,R1
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>289</b>	mg/L	10.0	10.0	1		01/28/22 10:30		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
 Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		01/26/22 19:04		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 19:04		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 19:04		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
 Pace Analytical Services - Asheville

Chloride	<b>3.1</b>	mg/L	1.0	0.60	1		01/25/22 17:18	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: **DGWC-47** Lab ID: **92583953009** Collected: 01/21/22 09:23 Received: 01/21/22 15:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	<b>0.64</b>	mg/L	0.10	0.050	1		01/25/22 17:18	16984-48-8	
Sulfate	<b>135</b>	mg/L	3.0	1.5	3		01/26/22 10:03	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

**Sample: FB-3**      **Lab ID: 92583953010**      Collected: 01/21/22 11:55      Received: 01/21/22 15:32      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 18:59	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 18:59	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 18:59	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 18:59	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 19:58	7440-36-0	
Arsenic	<b>0.0016J</b>	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 19:58	7440-38-2	
Barium	<b>0.00072J</b>	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 19:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 19:58	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 19:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 19:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 19:58	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 19:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 19:58	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 19:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 19:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 19:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/28/22 09:51	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 13:39	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>14.0</b>	mg/L	10.0	10.0	1		01/28/22 10:30		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		01/26/22 19:06		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 19:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 19:06		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		01/25/22 17:32	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 17:32	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/25/22 17:32	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

**Sample: DGWC-4**      **Lab ID: 92583953011**      Collected: 01/24/22 13:10      Received: 01/25/22 09:04      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/25/22 11:27		
pH	<b>5.79</b>	Std. Units			1		01/25/22 11:27		

**6010D ATL ICP**

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

Potassium	<b>9.8</b>	mg/L	0.20	0.15	1	01/28/22 12:43	01/28/22 18:34	7440-09-7	
Sodium	<b>55.1</b>	mg/L	1.0	0.58	1	01/28/22 12:43	01/28/22 18:34	7440-23-5	
Calcium	<b>299</b>	mg/L	1.0	0.12	1	01/28/22 12:43	01/28/22 18:34	7440-70-2	
Magnesium	<b>37.7</b>	mg/L	0.050	0.012	1	01/28/22 12:43	01/28/22 18:34	7439-95-4	

**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 17:09	7440-36-0	
Arsenic	<b>0.0011J</b>	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 17:09	7440-38-2	
Barium	<b>0.035</b>	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 17:09	7440-39-3	
Beryllium	<b>0.00033J</b>	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 17:09	7440-41-7	
Boron	<b>5.1</b>	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 17:09	7440-42-8	M1
Cadmium	<b>0.00098</b>	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 17:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 17:09	7440-47-3	
Cobalt	<b>0.0019J</b>	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 17:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 17:09	7439-92-1	
Lithium	<b>0.0038J</b>	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 17:09	7439-93-2	
Molybdenum	<b>0.0045J</b>	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 17:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 17:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 17:09	7440-28-0	

**7470 Mercury**

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

Mercury	<b>0.00022</b>	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 13:42	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>1520</b>	mg/L	50.0	50.0	1		01/28/22 10:30		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>131</b>	mg/L	5.0	1.8	1		01/27/22 16:29		
Alkalinity,Bicarbonate (CaCO3)	<b>131</b>	mg/L	5.0	1.8	1		01/27/22 16:29		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/27/22 16:29		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>12.5</b>	mg/L	1.0	0.60	1		01/26/22 23:54	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: DGWC-4 Lab ID: 92583953011 Collected: 01/24/22 13:10 Received: 01/25/22 09:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		01/26/22 23:54	16984-48-8	
Sulfate	816	mg/L	19.0	9.5	19		01/27/22 08:42	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

**Sample: DGWC-5**      **Lab ID: 92583953012**      Collected: 01/24/22 10:32      Received: 01/25/22 09:04      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/25/22 11:37		
pH	<b>4.79</b>	Std. Units			1		01/25/22 11:37		

**6010D ATL ICP**

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

Potassium	<b>3.9</b>	mg/L	0.20	0.15	1	01/28/22 12:43	01/28/22 18:39	7440-09-7	
Sodium	<b>18.3</b>	mg/L	1.0	0.58	1	01/28/22 12:43	01/28/22 18:39	7440-23-5	
Calcium	<b>112</b>	mg/L	1.0	0.12	1	01/28/22 12:43	01/28/22 18:39	7440-70-2	
Magnesium	<b>23.1</b>	mg/L	0.050	0.012	1	01/28/22 12:43	01/28/22 18:39	7439-95-4	

**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 18:26	7440-36-0	
Arsenic	<b>0.0019J</b>	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:26	7440-38-2	
Barium	<b>0.018</b>	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 18:26	7440-39-3	
Beryllium	<b>0.0084</b>	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 18:26	7440-41-7	
Boron	<b>4.4</b>	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 18:26	7440-42-8	
Cadmium	<b>0.00094</b>	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 18:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:26	7440-47-3	
Cobalt	<b>0.025</b>	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 18:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 18:26	7439-92-1	
Lithium	<b>0.0068J</b>	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 18:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 18:26	7439-98-7	
Selenium	<b>0.0048J</b>	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 18:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 18:26	7440-28-0	

**7470 Mercury**

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

Mercury	<b>0.00028</b>	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 13:44	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>810</b>	mg/L	10.0	10.0	1		01/31/22 19:10		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>6.2</b>	mg/L	5.0	1.8	1		01/27/22 18:18		
Alkalinity,Bicarbonate (CaCO3)	<b>6.2</b>	mg/L	5.0	1.8	1		01/27/22 18:18		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/27/22 18:18		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>9.9</b>	mg/L	1.0	0.60	1		01/27/22 00:08	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: DGWC-5 Lab ID: 92583953012 Collected: 01/24/22 10:32 Received: 01/25/22 09:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.19</b>	mg/L	0.10	0.050	1		01/27/22 00:08	16984-48-8	
Sulfate	<b>434</b>	mg/L	10.0	5.0	10		01/27/22 08:56	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

**Sample: DGWC-15**      **Lab ID: 92583953013**      Collected: 01/24/22 14:59      Received: 01/25/22 09:04      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/25/22 11:37		
pH	<b>6.06</b>	Std. Units			1		01/25/22 11:37		

**6010D ATL ICP**

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

Potassium	<b>4.3</b>	mg/L	0.20	0.15	1	01/28/22 12:43	01/28/22 18:44	7440-09-7	
Sodium	<b>20.2</b>	mg/L	1.0	0.58	1	01/28/22 12:43	01/28/22 18:44	7440-23-5	
Calcium	<b>33.2</b>	mg/L	1.0	0.12	1	01/28/22 12:43	01/28/22 18:44	7440-70-2	
Magnesium	<b>14.3</b>	mg/L	0.050	0.012	1	01/28/22 12:43	01/28/22 18:44	7439-95-4	

**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 18:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:32	7440-38-2	
Barium	<b>0.041</b>	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 18:32	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 18:32	7440-41-7	
Boron	<b>1.4</b>	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 18:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 18:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:32	7440-47-3	
Cobalt	<b>0.0015J</b>	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 18:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 18:32	7439-92-1	
Lithium	<b>0.0051J</b>	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 18:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 18:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 18:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 18:32	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	02/01/22 15:15	02/02/22 13:47	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>294</b>	mg/L	10.0	10.0	1		01/31/22 19:10		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>17.4</b>	mg/L	5.0	1.8	1		01/27/22 17:53		
Alkalinity,Bicarbonate (CaCO3)	<b>17.4</b>	mg/L	5.0	1.8	1		01/27/22 17:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/27/22 17:53		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>21.5</b>	mg/L	1.0	0.60	1		01/27/22 00:22	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: DGWC-15 Lab ID: 92583953013 Collected: 01/24/22 14:59 Received: 01/25/22 09:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		01/27/22 00:22	16984-48-8	
Sulfate	127	mg/L	3.0	1.5	3		01/27/22 09:10	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

**Sample:** DGWC-17      **Lab ID:** 92583953014      Collected: 01/24/22 14:46      Received: 01/25/22 09:04      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		01/25/22 11:37		
pH	<b>5.15</b>	Std. Units			1		01/25/22 11:37		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>3.6</b>	mg/L	0.20	0.15	1	01/28/22 12:43	01/28/22 18:49	7440-09-7	
Sodium	<b>16.9</b>	mg/L	1.0	0.58	1	01/28/22 12:43	01/28/22 18:49	7440-23-5	
Calcium	<b>15.6</b>	mg/L	1.0	0.12	1	01/28/22 12:43	01/28/22 18:49	7440-70-2	
Magnesium	<b>49.2</b>	mg/L	0.050	0.012	1	01/28/22 12:43	01/28/22 18:49	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 18:38	7440-36-0	
Arsenic	<b>0.0014J</b>	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:38	7440-38-2	
Barium	<b>0.031</b>	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 18:38	7440-39-3	
Beryllium	<b>0.00059</b>	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 18:38	7440-41-7	
Boron	<b>0.90</b>	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 18:38	7440-42-8	
Cadmium	<b>0.00027J</b>	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 18:38	7440-43-9	
Chromium	<b>0.0029J</b>	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:38	7440-47-3	
Cobalt	<b>0.019</b>	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 18:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 18:38	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 18:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 18:38	7439-98-7	
Selenium	<b>0.0064</b>	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 18:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 18:38	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 13:50	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>426</b>	mg/L	10.0	10.0	1		01/31/22 19:10		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	<b>5.2</b>	mg/L	5.0	1.8	1		01/27/22 17:56		
Alkalinity,Bicarbonate (CaCO3)	<b>5.2</b>	mg/L	5.0	1.8	1		01/27/22 17:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/27/22 17:56		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>19.2</b>	mg/L	1.0	0.60	1		01/27/22 00:35	16887-00-6	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: DGWC-17 Lab ID: 92583953014 Collected: 01/24/22 14:46 Received: 01/25/22 09:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		01/27/22 00:35	16984-48-8	
Sulfate	225	mg/L	5.0	2.5	5		01/27/22 09:24	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4  
 Pace Project No.: 92583953

Sample: DGWC-48	Lab ID: 92583953015	Collected: 01/24/22 10:10	Received: 01/25/22 09:04	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		01/25/22 11:38		
pH	<b>4.03</b>	Std. Units			1		01/25/22 11:38		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>13.2</b>	mg/L	0.20	0.15	1	01/28/22 12:43	01/28/22 18:53	7440-09-7	
Sodium	<b>19.7</b>	mg/L	1.0	0.58	1	01/28/22 12:43	01/28/22 18:53	7440-23-5	
Calcium	<b>61.2</b>	mg/L	1.0	0.12	1	01/28/22 12:43	01/28/22 18:53	7440-70-2	
Magnesium	<b>14.2</b>	mg/L	0.050	0.012	1	01/28/22 12:43	01/28/22 18:53	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 18:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:44	7440-38-2	
Barium	<b>0.014</b>	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 18:44	7440-39-3	
Beryllium	<b>0.0069</b>	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 18:44	7440-41-7	
Boron	<b>0.61</b>	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 18:44	7440-42-8	
Cadmium	<b>0.0029</b>	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 18:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:44	7440-47-3	
Cobalt	<b>0.34</b>	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 18:44	7440-48-4	
Lead	<b>0.0011</b>	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 18:44	7439-92-1	
Lithium	<b>0.11</b>	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 18:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 18:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 18:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 18:44	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 13:52	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>500</b>	mg/L	10.0	10.0	1		01/31/22 19:10		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		01/27/22 18:00		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/27/22 18:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/27/22 18:00		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>11.3</b>	mg/L	1.0	0.60	1		01/27/22 01:17	16887-00-6	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: **DGWC-48** Lab ID: **92583953015** Collected: 01/24/22 10:10 Received: 01/25/22 09:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	<b>0.59</b>	mg/L	0.10	0.050	1		01/27/22 01:17	16984-48-8	M1
Sulfate	<b>265</b>	mg/L	6.0	3.0	6		01/27/22 09:38	14808-79-8	M1

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4  
 Pace Project No.: 92583953

**Sample: EB-4**      **Lab ID: 92583953016**      Collected: 01/24/22 14:55      Received: 01/25/22 09:04      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	01/28/22 12:43	01/28/22 19:12	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	01/28/22 12:43	01/28/22 19:12	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	01/28/22 12:43	01/28/22 19:12	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	01/28/22 12:43	01/28/22 19:12	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 18:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:50	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 18:50	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 18:50	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 18:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 18:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 18:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 18:50	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 18:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 18:50	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 18:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 18:50	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 13:55	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		01/31/22 19:10		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		01/27/22 16:14		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/27/22 16:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/27/22 16:14		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		01/27/22 02:27	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/27/22 02:27	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/27/22 02:27	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4  
 Pace Project No.: 92583953

**Sample: FB-4**      **Lab ID: 92583953017**      Collected: 01/24/22 15:55      Received: 01/25/22 09:04      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 18:07	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 18:07	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 18:07	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	01/31/22 13:48	01/31/22 18:07	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 18:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:56	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 18:56	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 18:56	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 18:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 18:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 18:56	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 18:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 18:56	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 18:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 18:56	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 18:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 18:56	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 14:03	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		01/31/22 19:10		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		01/27/22 16:17		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/27/22 16:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/27/22 16:17		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		01/27/22 02:41	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/27/22 02:41	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/27/22 02:41	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

**Sample: DUP-4**      **Lab ID: 92583953018**      Collected: 01/24/22 00:00      Received: 01/25/22 09:04      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	4.6	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 18:12	7440-09-7	
Sodium	22.1	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 18:12	7440-23-5	
Calcium	135	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 18:12	7440-70-2	
Magnesium	27.0	mg/L	0.050	0.012	1	01/31/22 13:48	02/01/22 13:13	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 19:02	7440-36-0	
Arsenic	0.0015J	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:02	7440-38-2	
Barium	0.019	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 19:02	7440-39-3	
Beryllium	0.0087	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 19:02	7440-41-7	
Boron	4.5	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 19:02	7440-42-8	
Cadmium	0.00096	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 19:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:02	7440-47-3	
Cobalt	0.025	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 19:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 19:02	7439-92-1	
Lithium	0.0073J	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 19:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 19:02	7439-98-7	
Selenium	0.0047J	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 19:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 19:02	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00027	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 14:05	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	772	mg/L	20.0	20.0	1		01/31/22 19:11		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	6.2	mg/L	5.0	1.8	1		01/27/22 18:22		
Alkalinity,Bicarbonate (CaCO3)	6.2	mg/L	5.0	1.8	1		01/27/22 18:22		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/27/22 18:22		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	10	mg/L	1.0	0.60	1		01/27/22 02:55	16887-00-6	
Fluoride	0.22	mg/L	0.10	0.050	1		01/27/22 02:55	16984-48-8	
Sulfate	441	mg/L	10.0	5.0	10		01/27/22 10:47	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

**Sample: DGWC-8**      **Lab ID: 92583953019**      Collected: 01/25/22 11:45      Received: 01/26/22 08:51      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/26/22 09:58		
pH	<b>5.16</b>	Std. Units			1		01/26/22 09:58		

**6010D ATL ICP**

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

Potassium	<b>4.4</b>	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 18:40	7440-09-7	
Sodium	<b>14.4</b>	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 18:40	7440-23-5	
Calcium	<b>36.8</b>	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 18:40	7440-70-2	
Magnesium	<b>17.9</b>	mg/L	0.050	0.012	1	01/31/22 13:48	02/01/22 13:27	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	02/03/22 10:35	02/03/22 19:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:08	7440-38-2	
Barium	<b>0.019</b>	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 19:08	7440-39-3	
Beryllium	<b>0.0012</b>	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 19:08	7440-41-7	
Boron	<b>0.98</b>	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 19:08	7440-42-8	
Cadmium	<b>0.0016</b>	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 19:08	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:08	7440-47-3	
Cobalt	<b>0.019</b>	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 19:08	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 19:08	7439-92-1	
Lithium	<b>0.0032J</b>	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 19:08	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 19:08	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 19:08	7782-49-2	
Thallium	<b>0.00019J</b>	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 19:08	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	02/01/22 15:15	02/02/22 14:08	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>281</b>	mg/L	10.0	10.0	1		01/31/22 19:11		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>8.3</b>	mg/L	5.0	1.8	1		02/01/22 18:36		
Alkalinity,Bicarbonate (CaCO3)	<b>8.3</b>	mg/L	5.0	1.8	1		02/01/22 18:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/01/22 18:36		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>9.3</b>	mg/L	1.0	0.60	1		01/28/22 03:34	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: **DGWC-8** Lab ID: **92583953019** Collected: 01/25/22 11:45 Received: 01/26/22 08:51 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		01/28/22 03:34	16984-48-8	
Sulfate	<b>134</b>	mg/L	3.0	1.5	3		01/28/22 11:14	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4  
 Pace Project No.: 92583953

**Sample: DGWC-11**      **Lab ID: 92583953020**      Collected: 01/25/22 15:16      Received: 01/26/22 08:51      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		01/26/22 09:58		
pH	<b>5.54</b>	Std. Units			1		01/26/22 09:58		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Magnesium	<b>33.6</b>	mg/L	0.050	0.012	1	01/31/22 13:48	02/01/22 13:32	7439-95-4	
Potassium	<b>4.7</b>	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 18:45	7440-09-7	
Sodium	<b>22.8</b>	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 18:45	7440-23-5	
Calcium	<b>70.2</b>	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 18:45	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 19:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:14	7440-38-2	
Barium	<b>0.047</b>	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 19:14	7440-39-3	
Beryllium	<b>0.00019J</b>	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 19:14	7440-41-7	
Boron	<b>1.7</b>	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 19:14	7440-42-8	
Cadmium	<b>0.00016J</b>	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 19:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:14	7440-47-3	
Cobalt	<b>0.0015J</b>	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 19:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 19:14	7439-92-1	
Lithium	<b>0.0021J</b>	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 19:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 19:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 19:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 19:14	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 14:11	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>465</b>	mg/L	10.0	10.0	1		01/31/22 19:11		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	<b>11.9</b>	mg/L	5.0	1.8	1		02/01/22 18:40		
Alkalinity,Bicarbonate (CaCO3)	<b>11.9</b>	mg/L	5.0	1.8	1		02/01/22 18:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/01/22 18:40		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>14.1</b>	mg/L	1.0	0.60	1		01/28/22 04:15	16887-00-6	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: **DGWC-11** Lab ID: **92583953020** Collected: 01/25/22 15:16 Received: 01/26/22 08:51 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		01/28/22 04:15	16984-48-8	
Sulfate	<b>250</b>	mg/L	6.0	3.0	6		01/28/22 11:28	14808-79-8	M1

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

**Sample: DGWC-12**      **Lab ID: 92583953021**      Collected: 01/25/22 10:48      Received: 01/26/22 08:51      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/26/22 09:58		
pH	<b>5.96</b>	Std. Units			1		01/26/22 09:58		

**6010D ATL ICP**

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

Magnesium	<b>16.8</b>	mg/L	0.050	0.012	1	01/31/22 13:48	02/01/22 13:36	7439-95-4	
Potassium	<b>9.0</b>	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 18:59	7440-09-7	
Sodium	<b>11.6</b>	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 18:59	7440-23-5	
Calcium	<b>28.5</b>	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 18:59	7440-70-2	

**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 19:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:20	7440-38-2	
Barium	<b>0.054</b>	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 19:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 19:20	7440-41-7	
Boron	<b>0.70</b>	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 19:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 19:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:20	7440-47-3	
Cobalt	<b>0.018</b>	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 19:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 19:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 19:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 19:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 19:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 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	02/01/22 15:15	02/02/22 14:13	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>258</b>	mg/L	10.0	10.0	1		01/31/22 19:11		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>74.7</b>	mg/L	5.0	1.8	1		02/01/22 17:44		
Alkalinity,Bicarbonate (CaCO3)	<b>74.7</b>	mg/L	5.0	1.8	1		02/01/22 17:44		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/01/22 17:44		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>8.1</b>	mg/L	1.0	0.60	1		01/28/22 05:25	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: **DGWC-12** Lab ID: **92583953021** Collected: 01/25/22 10:48 Received: 01/26/22 08:51 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	<b>0.093J</b>	mg/L	0.10	0.050	1		01/28/22 05:25	16984-48-8	
Sulfate	<b>111</b>	mg/L	3.0	1.5	3		01/28/22 12:10	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

**Sample: DGWC-13**      **Lab ID: 92583953022**      Collected: 01/25/22 11:05      Received: 01/26/22 08:51      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/26/22 09:59		
pH	<b>4.68</b>	Std. Units			1		01/26/22 09:59		

**6010D ATL ICP**

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

Magnesium	<b>8.9</b>	mg/L	0.050	0.012	1	01/31/22 13:48	02/01/22 13:41	7439-95-4	
Potassium	<b>5.7</b>	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 19:04	7440-09-7	
Sodium	<b>24.7</b>	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 19:04	7440-23-5	
Calcium	<b>43.2</b>	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 19:04	7440-70-2	

**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 19:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:37	7440-38-2	
Barium	<b>0.028</b>	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 19:37	7440-39-3	
Beryllium	<b>0.000091J</b>	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 19:37	7440-41-7	
Boron	<b>0.69</b>	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 19:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 19:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 19:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 19:37	7439-92-1	
Lithium	<b>0.0037J</b>	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 19:37	7439-93-2	
Molybdenum	<b>0.0093J</b>	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 19:37	7439-98-7	
Selenium	<b>0.0060</b>	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 19:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 19:37	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 14:16	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>256</b>	mg/L	10.0	10.0	1		02/01/22 13:52		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>21.9</b>	mg/L	5.0	1.8	1		02/02/22 15:48		
Alkalinity,Bicarbonate (CaCO3)	<b>21.9</b>	mg/L	5.0	1.8	1		02/02/22 15:48		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 15:48		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>14.3</b>	mg/L	1.0	0.60	1		01/28/22 05:39	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: **DGWC-13** Lab ID: **92583953022** Collected: 01/25/22 11:05 Received: 01/26/22 08:51 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	<b>0.063J</b>	mg/L	0.10	0.050	1		01/28/22 05:39	16984-48-8	
Sulfate	<b>116</b>	mg/L	3.0	1.5	3		01/28/22 12:25	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

**Sample: DGWC-14**      **Lab ID: 92583953023**      Collected: 01/25/22 09:47      Received: 01/26/22 08:51      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		01/26/22 09:59		
pH	<b>5.69</b>	Std. Units			1		01/26/22 09:59		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Magnesium	<b>5.3</b>	mg/L	0.050	0.012	1	01/31/22 13:48	02/01/22 13:46	7439-95-4	
Potassium	<b>3.4</b>	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 19:09	7440-09-7	
Sodium	<b>7.6</b>	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 19:09	7440-23-5	
Calcium	<b>12.4</b>	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 19:09	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 19:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:43	7440-38-2	
Barium	<b>0.064</b>	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 19:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 19:43	7440-41-7	
Boron	<b>0.097</b>	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 19:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 19:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 19:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 19:43	7439-92-1	
Lithium	<b>0.0043J</b>	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 19:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 19:43	7439-98-7	
Selenium	<b>0.0016J</b>	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 19:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 19:43	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 14:19	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>120</b>	mg/L	10.0	10.0	1		02/01/22 13:52		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	<b>15.2</b>	mg/L	5.0	1.8	1		02/02/22 18:08		
Alkalinity,Bicarbonate (CaCO3)	<b>15.2</b>	mg/L	5.0	1.8	1		02/02/22 18:08		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 18:08		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>3.7</b>	mg/L	1.0	0.60	1		01/28/22 05:53	16887-00-6	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: **DGWC-14**      Lab ID: **92583953023**      Collected: 01/25/22 09:47      Received: 01/26/22 08:51      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		01/28/22 05:53	16984-48-8	
Sulfate	<b>44.4</b>	mg/L	1.0	0.50	1		01/28/22 05:53	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

**Sample: DGWC-19**      **Lab ID: 92583953024**      Collected: 01/25/22 14:40      Received: 01/26/22 08:51      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/26/22 10:00		
pH	<b>4.79</b>	Std. Units			1		01/26/22 10:00		

**6010D ATL ICP**

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

Potassium	<b>4.2</b>	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 19:13	7440-09-7	
Sodium	<b>35.9</b>	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 19:13	7440-23-5	
Calcium	<b>101</b>	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 19:13	7440-70-2	
Magnesium	<b>13.0</b>	mg/L	0.050	0.012	1	01/31/22 13:48	02/01/22 13:51	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	02/03/22 10:35	02/03/22 19:49	7440-36-0	
Arsenic	<b>0.0014J</b>	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:49	7440-38-2	
Barium	<b>0.026</b>	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 19:49	7440-39-3	
Beryllium	<b>0.0019</b>	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 19:49	7440-41-7	
Boron	<b>2.5</b>	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 19:49	7440-42-8	
Cadmium	<b>0.00041J</b>	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 19:49	7440-43-9	
Chromium	<b>0.0029J</b>	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:49	7440-47-3	
Cobalt	<b>0.054</b>	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 19:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 19:49	7439-92-1	
Lithium	<b>0.0031J</b>	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 19:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 19:49	7439-98-7	
Selenium	<b>0.0029J</b>	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 19:49	7782-49-2	
Thallium	<b>0.00057J</b>	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 19:49	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	02/01/22 15:15	02/02/22 14:21	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>694</b>	mg/L	20.0	20.0	1		02/01/22 13:52		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>3.5J</b>	mg/L	5.0	1.8	1		02/02/22 18:12		
Alkalinity,Bicarbonate (CaCO3)	<b>3.5J</b>	mg/L	5.0	1.8	1		02/02/22 18:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 18:12		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>23.7</b>	mg/L	1.0	0.60	1		01/28/22 06:07	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: **DGWC-19** Lab ID: **92583953024** Collected: 01/25/22 14:40 Received: 01/26/22 08:51 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	<b>0.16</b>	mg/L	0.10	0.050	1		01/28/22 06:07	16984-48-8	
Sulfate	<b>288</b>	mg/L	7.0	3.5	7		01/28/22 12:39	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4  
 Pace Project No.: 92583953

**Sample: FB-5**      **Lab ID: 92583953025**      Collected: 01/25/22 10:15      Received: 01/26/22 08:51      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 19:18	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 19:18	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 19:18	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	01/31/22 13:48	01/31/22 19:18	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 19:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:55	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 19:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 19:55	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 19:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 19:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 19:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 19:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 19:55	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 19:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 19:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 19:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 19:55	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 14:24	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>11.0</b>	mg/L	10.0	10.0	1		02/01/22 13:52		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		02/02/22 15:59		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 15:59		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 15:59		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		01/28/22 06:21	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/28/22 06:21	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/28/22 06:21	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

**Sample: DGWC-9**      **Lab ID: 92583953026**      Collected: 01/26/22 16:30      Received: 01/27/22 08:50      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/27/22 10:28		
pH	<b>3.68</b>	Std. Units			1		01/27/22 10:28		

**6010D ATL ICP**

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

Potassium	<b>5.4</b>	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 19:23	7440-09-7	
Sodium	<b>32.6</b>	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 19:23	7440-23-5	
Calcium	<b>48.4</b>	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 19:23	7440-70-2	
Magnesium	<b>5.9</b>	mg/L	0.050	0.012	1	01/31/22 13:48	02/01/22 13:55	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	02/03/22 13:00	02/03/22 21:49	7440-36-0	
Arsenic	<b>0.012</b>	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 21:49	7440-38-2	
Barium	<b>0.016</b>	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 21:49	7440-39-3	
Beryllium	<b>0.0054</b>	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 21:49	7440-41-7	
Boron	<b>0.69</b>	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 21:49	7440-42-8	
Cadmium	<b>0.00059</b>	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 21:49	7440-43-9	
Chromium	<b>0.0029J</b>	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 21:49	7440-47-3	
Cobalt	<b>0.22</b>	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 21:49	7440-48-4	
Lead	ND	mg/L	0.0050	0.0044	5	02/03/22 13:00	02/04/22 13:50	7439-92-1	D3
Lithium	<b>0.029J</b>	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 21:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 21:49	7439-98-7	
Selenium	<b>0.025</b>	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 21:49	7782-49-2	
Thallium	ND	mg/L	0.0050	0.00090	5	02/03/22 13:00	02/04/22 13:50	7440-28-0	D3

**7470 Mercury**

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

Mercury	<b>0.00014J</b>	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 14:26	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>409</b>	mg/L	10.0	10.0	1		02/01/22 14:08		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO <sub>3</sub>	ND	mg/L	5.0	1.8	1		02/02/22 23:12		
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	1.8	1		02/02/22 23:12		
Alkalinity,Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	1.8	1		02/02/22 23:12		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>9.1</b>	mg/L	1.0	0.60	1		01/29/22 15:45	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: **DGWC-9** Lab ID: **92583953026** Collected: 01/26/22 16:30 Received: 01/27/22 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	<b>1.2</b>	mg/L	0.10	0.050	1		01/29/22 15:45	16984-48-8	
Sulfate	<b>245</b>	mg/L	6.0	3.0	6		01/30/22 03:08	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

**Sample: DGWC-10**      **Lab ID: 92583953027**      Collected: 01/26/22 14:30      Received: 01/27/22 08:50      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/27/22 10:29		
pH	<b>4.90</b>	Std. Units			1		01/27/22 10:29		

**6010D ATL ICP**

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

Magnesium	<b>7.4</b>	mg/L	0.050	0.012	1	01/31/22 13:48	02/01/22 14:10	7439-95-4	
Potassium	<b>6.9</b>	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 19:28	7440-09-7	
Sodium	<b>11.1</b>	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 19:28	7440-23-5	
Calcium	<b>76.8</b>	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 19:28	7440-70-2	

**6020 MET ICPMS**

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

Antimony	<b>0.0021J</b>	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 22:12	7440-36-0	
Arsenic	<b>0.0043J</b>	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:12	7440-38-2	
Barium	<b>0.022</b>	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 22:12	7440-39-3	
Beryllium	<b>0.0091</b>	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 22:12	7440-41-7	
Boron	<b>0.40</b>	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 22:12	7440-42-8	
Cadmium	<b>0.00070</b>	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 22:12	7440-43-9	
Chromium	<b>0.0011J</b>	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:12	7440-47-3	
Cobalt	<b>0.099</b>	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 22:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 22:12	7439-92-1	
Lithium	<b>0.0059J</b>	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 22:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 22:12	7439-98-7	
Selenium	<b>0.015</b>	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 22:12	7782-49-2	
Thallium	<b>0.00033J</b>	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 22:12	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	02/01/22 15:15	02/02/22 14:34	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>425</b>	mg/L	10.0	10.0	1		02/01/22 14:08		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO <sub>3</sub>	<b>5.3</b>	mg/L	5.0	1.8	1		02/02/22 23:16		
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	<b>5.3</b>	mg/L	5.0	1.8	1		02/02/22 23:16		
Alkalinity,Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	1.8	1		02/02/22 23:16		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>9.0</b>	mg/L	1.0	0.60	1		01/29/22 15:59	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Sample: **DGWC-10** Lab ID: **92583953027** Collected: 01/26/22 14:30 Received: 01/27/22 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	<b>1.8</b>	mg/L	0.10	0.050	1		01/29/22 15:59	16984-48-8	
Sulfate	<b>241</b>	mg/L	6.0	3.0	6		01/30/22 03:22	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

**Sample: FB-6**      **Lab ID: 92583953028**      Collected: 01/26/22 17:10      Received: 01/27/22 08:50      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 19:33	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 19:33	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 19:33	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	01/31/22 13:48	01/31/22 19:33	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 22:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:18	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 22:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 22:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 22:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 22:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 22:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 22:18	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 22:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 22:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 22:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 22:18	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/22 15:15	02/02/22 14:37	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/01/22 14:08		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		02/02/22 21:59		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 21:59		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 21:59		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		01/29/22 16:13	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/29/22 16:13	16984-48-8	R1
Sulfate	ND	mg/L	1.0	0.50	1		01/29/22 16:13	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

**Sample:** DUP-5      **Lab ID:** 92583953029      Collected: 01/26/22 00:00      Received: 01/27/22 08:50      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Magnesium	7.5	mg/L	0.050	0.012	1	01/31/22 13:48	02/01/22 14:14	7439-95-4	
Potassium	7.1	mg/L	0.20	0.15	1	01/31/22 13:48	01/31/22 19:37	7440-09-7	
Sodium	11.5	mg/L	1.0	0.58	1	01/31/22 13:48	01/31/22 19:37	7440-23-5	
Calcium	81.8	mg/L	1.0	0.12	1	01/31/22 13:48	01/31/22 19:37	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 22:24	7440-36-0	
Arsenic	0.0041J	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:24	7440-38-2	
Barium	0.022	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 22:24	7440-39-3	
Beryllium	0.0091	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 22:24	7440-41-7	
Boron	0.34	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 22:24	7440-42-8	
Cadmium	0.00071	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 22:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:24	7440-47-3	
Cobalt	0.098	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 22:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 22:24	7439-92-1	
Lithium	0.0058J	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 22:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 22:24	7439-98-7	
Selenium	0.016	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 22:24	7782-49-2	
Thallium	0.00032J	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 22:24	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/02/22 08:00	02/02/22 13:08	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	419	mg/L	10.0	10.0	1		02/01/22 14:09		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	5.4	mg/L	5.0	1.8	1		02/02/22 23:20		
Alkalinity,Bicarbonate (CaCO3)	5.4	mg/L	5.0	1.8	1		02/02/22 23:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 23:20		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	9.3	mg/L	1.0	0.60	1		01/29/22 16:55	16887-00-6	
Fluoride	1.8	mg/L	0.10	0.050	1		01/29/22 16:55	16984-48-8	
Sulfate	235	mg/L	6.0	3.0	6		01/30/22 03:36	14808-79-8	

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### QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch:	673590	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583953001, 92583953002, 92583953003, 92583953004, 92583953005, 92583953006, 92583953007, 92583953008, 92583953009, 92583953010

METHOD BLANK:	3525723	Matrix:	Water
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Associated Lab Samples: 92583953001, 92583953002, 92583953003, 92583953004, 92583953005, 92583953006, 92583953007, 92583953008, 92583953009, 92583953010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	01/25/22 16:54	
Magnesium	mg/L	ND	0.050	0.012	01/25/22 16:54	
Potassium	mg/L	ND	0.20	0.15	01/25/22 16:54	
Sodium	mg/L	ND	1.0	0.58	01/25/22 16:54	

LABORATORY CONTROL SAMPLE: 3525724

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	105	80-120	
Potassium	mg/L	1	1.1	106	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525725 3525726

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583953001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	44.6	1	1	45.6	45.2	100	56	75-125	1	20 M1
Magnesium	mg/L	9.2	1	1	10.4	10.1	118	95	75-125	2	20
Potassium	mg/L	6.0	1	1	6.9	7.0	96	106	75-125	1	20
Sodium	mg/L	10.4	1	1	11.8	11.3	144	90	75-125	5	20 M1

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### QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4  
 Pace Project No.: 92583953

QC Batch: 674583 Analysis Method: EPA 6010D  
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583953011, 92583953012, 92583953013, 92583953014, 92583953015, 92583953016

METHOD BLANK: 3530749 Matrix: Water  
 Associated Lab Samples: 92583953011, 92583953012, 92583953013, 92583953014, 92583953015, 92583953016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	01/28/22 16:50	
Magnesium	mg/L	ND	0.050	0.012	01/28/22 16:50	
Potassium	mg/L	ND	0.20	0.15	01/28/22 16:50	
Sodium	mg/L	ND	1.0	0.58	01/28/22 16:50	

LABORATORY CONTROL SAMPLE: 3530750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.95J	95	80-120	
Magnesium	mg/L	1	0.98	98	80-120	
Potassium	mg/L	1	1.0	101	80-120	
Sodium	mg/L	1	1.1	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3530751 3530752

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92584522001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	16.2	1	1	17.1	16.7	86	47	75-125	2	20 M1
Magnesium	mg/L	3.5	1	1	4.4	4.4	89	84	75-125	1	20
Potassium	mg/L	3.0	1	1	3.9	3.7	86	66	75-125	5	20 M1
Sodium	mg/L	16.3	1	1	17.0	16.7	71	33	75-125	2	20 M1

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch:	674955	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92583953017, 92583953018, 92583953019, 92583953020, 92583953021, 92583953022, 92583953023, 92583953024, 92583953025, 92583953026, 92583953027, 92583953028, 92583953029		

METHOD BLANK:	3532830	Matrix:	Water
Associated Lab Samples:	92583953017, 92583953018, 92583953019, 92583953020, 92583953021, 92583953022, 92583953023, 92583953024, 92583953025, 92583953026, 92583953027, 92583953028, 92583953029		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	01/31/22 17:28	
Magnesium	mg/L	ND	0.050	0.012	01/31/22 17:28	
Potassium	mg/L	ND	0.20	0.15	01/31/22 17:28	
Sodium	mg/L	ND	1.0	0.58	01/31/22 17:28	

LABORATORY CONTROL SAMPLE: 3532831

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	108	80-120	
Magnesium	mg/L	1	1.2	116	80-120	
Potassium	mg/L	1	0.96	96	80-120	
Sodium	mg/L	1	1.2	120	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3532832 3532833

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92582988004 Result	Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	17900 ug/L	1	1	19.3	18.8	143	94	75-125	3	20 M1
Magnesium	mg/L	7710 ug/L	1	1	9.0	9.0	128	127	75-125	0	20 M1
Potassium	mg/L	3020 ug/L	1	1	4.2	4.0	119	103	75-125	4	20
Sodium	mg/L	37000 ug/L	1	1	39.0	37.9	193	89	75-125	3	20 M1

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch:	673615	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583953001, 92583953002, 92583953003, 92583953004, 92583953005, 92583953006, 92583953007, 92583953008, 92583953009, 92583953010

METHOD BLANK: 3525835 Matrix: Water  
 Associated Lab Samples: 92583953001, 92583953002, 92583953003, 92583953004, 92583953005, 92583953006, 92583953007, 92583953008, 92583953009, 92583953010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	01/26/22 12:50	
Arsenic	mg/L	ND	0.0050	0.0011	01/26/22 12:50	
Barium	mg/L	ND	0.0050	0.00067	01/26/22 12:50	
Beryllium	mg/L	ND	0.00050	0.000054	01/26/22 12:50	
Boron	mg/L	ND	0.040	0.0086	01/26/22 12:50	
Cadmium	mg/L	ND	0.00050	0.00011	01/26/22 12:50	
Chromium	mg/L	ND	0.0050	0.0011	01/26/22 12:50	
Cobalt	mg/L	ND	0.0050	0.00039	01/26/22 12:50	
Lead	mg/L	ND	0.0010	0.00089	01/26/22 12:50	
Lithium	mg/L	ND	0.030	0.00073	01/26/22 12:50	
Molybdenum	mg/L	ND	0.010	0.00074	01/26/22 12:50	
Selenium	mg/L	ND	0.0050	0.0014	01/26/22 12:50	
Thallium	mg/L	ND	0.0010	0.00018	01/26/22 12:50	

LABORATORY CONTROL SAMPLE: 3525836

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	0.093	93	80-120	
Barium	mg/L	0.1	0.095	95	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.095	95	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.097	97	80-120	
Molybdenum	mg/L	0.1	0.098	98	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: 3525837 3525838

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583953002 Result	Spike Conc.	Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	107	103	75-125	4	20

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Parameter	Units	3525837		3525838		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Arsenic	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	1	20		
Barium	mg/L	0.024	0.1	0.1	0.12	0.12	98	95	75-125	2	20		
Beryllium	mg/L	0.00019J	0.1	0.1	0.091	0.088	91	88	75-125	3	20		
Boron	mg/L	6.9	1	1	8.0	7.8	108	86	75-125	3	20		
Cadmium	mg/L	ND	0.1	0.1	0.098	0.095	98	95	75-125	4	20		
Chromium	mg/L	ND	0.1	0.1	0.096	0.096	95	95	75-125	0	20		
Cobalt	mg/L	0.0076	0.1	0.1	0.10	0.10	95	95	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.094	96	94	75-125	2	20		
Lithium	mg/L	0.0058J	0.1	0.1	0.099	0.094	93	88	75-125	6	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	103	100	75-125	3	20		
Selenium	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.094	96	93	75-125	3	20		

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4  
 Pace Project No.: 92583953

QC Batch: 675780 Analysis Method: EPA 6020B  
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92583953011, 92583953012, 92583953013, 92583953014, 92583953015, 92583953016, 92583953017, 92583953018, 92583953019, 92583953020, 92583953021, 92583953022, 92583953023, 92583953024, 92583953025

METHOD BLANK: 3536808 Matrix: Water  
 Associated Lab Samples: 92583953011, 92583953012, 92583953013, 92583953014, 92583953015, 92583953016, 92583953017, 92583953018, 92583953019, 92583953020, 92583953021, 92583953022, 92583953023, 92583953024, 92583953025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/03/22 16:32	
Arsenic	mg/L	ND	0.0050	0.0011	02/03/22 16:32	
Barium	mg/L	ND	0.0050	0.00067	02/03/22 16:32	
Beryllium	mg/L	ND	0.00050	0.000054	02/03/22 16:32	
Boron	mg/L	ND	0.040	0.0086	02/03/22 16:32	
Cadmium	mg/L	ND	0.00050	0.00011	02/03/22 16:32	
Chromium	mg/L	ND	0.0050	0.0011	02/03/22 16:32	
Cobalt	mg/L	ND	0.0050	0.00039	02/03/22 16:32	
Lead	mg/L	ND	0.0010	0.00089	02/03/22 16:32	
Lithium	mg/L	ND	0.030	0.00073	02/03/22 16:32	
Molybdenum	mg/L	ND	0.010	0.00074	02/03/22 16:32	
Selenium	mg/L	ND	0.0050	0.0014	02/03/22 16:32	
Thallium	mg/L	ND	0.0010	0.00018	02/03/22 16:32	

LABORATORY CONTROL SAMPLE: 3536809

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.083	83	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	112	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.087	87	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.087	87	80-120	
Selenium	mg/L	0.1	0.11	106	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Parameter	Units	3536810		3536811		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	109	109	75-125	0	20		
Arsenic	mg/L	0.0011J	0.1	0.1	0.11	0.11	108	109	75-125	1	20		
Barium	mg/L	0.035	0.1	0.1	0.14	0.14	104	103	75-125	1	20		
Beryllium	mg/L	0.00033J	0.1	0.1	0.092	0.091	92	90	75-125	2	20		
Boron	mg/L	5.1	1	1	5.9	5.7	77	53	75-125	4	20	M1	
Cadmium	mg/L	0.00098	0.1	0.1	0.098	0.10	97	99	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	104	100	75-125	4	20		
Cobalt	mg/L	0.0019J	0.1	0.1	0.098	0.098	96	96	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.091	0.092	91	92	75-125	2	20		
Lithium	mg/L	0.0038J	0.1	0.1	0.10	0.098	96	95	75-125	1	20		
Molybdenum	mg/L	0.0045J	0.1	0.1	0.10	0.10	96	99	75-125	3	20		
Selenium	mg/L	ND	0.1	0.1	0.12	0.12	115	116	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20		

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch:	675834	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583953026, 92583953027, 92583953028, 92583953029

METHOD BLANK: 3537236 Matrix: Water

Associated Lab Samples: 92583953026, 92583953027, 92583953028, 92583953029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/03/22 20:25	
Arsenic	mg/L	ND	0.0050	0.0011	02/03/22 20:25	
Barium	mg/L	ND	0.0050	0.00067	02/03/22 20:25	
Beryllium	mg/L	ND	0.00050	0.000054	02/03/22 20:25	
Boron	mg/L	ND	0.040	0.0086	02/03/22 20:25	
Cadmium	mg/L	ND	0.00050	0.00011	02/03/22 20:25	
Chromium	mg/L	ND	0.0050	0.0011	02/03/22 20:25	
Cobalt	mg/L	ND	0.0050	0.00039	02/03/22 20:25	
Lead	mg/L	ND	0.0010	0.00089	02/03/22 20:25	
Lithium	mg/L	ND	0.030	0.00073	02/03/22 20:25	
Molybdenum	mg/L	ND	0.010	0.00074	02/03/22 20:25	
Selenium	mg/L	ND	0.0050	0.0014	02/03/22 20:25	
Thallium	mg/L	ND	0.0010	0.00018	02/03/22 20:25	

LABORATORY CONTROL SAMPLE: 3537237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	112	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.11	107	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	0.10	103	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	108	80-120	
Molybdenum	mg/L	0.1	0.11	107	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3537238 3537239

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result								
Antimony	mg/L	ND	0.1	0.1	0.1	0.11	0.11	110	111	75-125	1	20	
Arsenic	mg/L	0.012	0.1	0.1	0.1	0.11	0.11	100	101	75-125	1	20	

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### QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Parameter	Units	3537238		3537239		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583953026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.016	0.1	0.1	0.12	0.12	102	104	75-125	2	20		
Beryllium	mg/L	0.0054	0.1	0.1	0.10	0.11	98	100	75-125	2	20		
Boron	mg/L	0.69	1	1	1.7	1.7	96	102	75-125	4	20		
Cadmium	mg/L	0.00059	0.1	0.1	0.098	0.099	97	99	75-125	1	20		
Chromium	mg/L	0.0029J	0.1	0.1	0.10	0.10	100	101	75-125	1	20		
Cobalt	mg/L	0.22	0.1	0.1	0.31	0.32	88	101	75-125	4	20		
Lead	mg/L	ND	0.1	0.1	0.086	0.087	86	86	75-125	0	20		
Lithium	mg/L	0.029J	0.1	0.1	0.13	0.13	102	104	75-125	2	20		
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	107	109	75-125	1	20		
Selenium	mg/L	0.025	0.1	0.1	0.13	0.13	103	105	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.083	0.085	83	84	75-125	2	20		

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4  
 Pace Project No.: 92583953

QC Batch: 674969 Analysis Method: EPA 7470A  
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92583953001, 92583953002, 92583953003, 92583953004, 92583953005, 92583953006, 92583953007, 92583953008

METHOD BLANK: 3532919 Matrix: Water  
 Associated Lab Samples: 92583953001, 92583953002, 92583953003, 92583953004, 92583953005, 92583953006, 92583953007, 92583953008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/01/22 11:32	

LABORATORY CONTROL SAMPLE: 3532920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3532921 3532922

Parameter	Units	92583600001 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	89	90	75-125	1	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch: 675271 Analysis Method: EPA 7470A  
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92583953009, 92583953010, 92583953011, 92583953012, 92583953013, 92583953014, 92583953015, 92583953016, 92583953017, 92583953018, 92583953019, 92583953020, 92583953021, 92583953022, 92583953023, 92583953024, 92583953025, 92583953026, 92583953027, 92583953028

METHOD BLANK: 3534192 Matrix: Water  
 Associated Lab Samples: 92583953009, 92583953010, 92583953011, 92583953012, 92583953013, 92583953014, 92583953015, 92583953016, 92583953017, 92583953018, 92583953019, 92583953020, 92583953021, 92583953022, 92583953023, 92583953024, 92583953025, 92583953026, 92583953027, 92583953028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/02/22 13:18	

LABORATORY CONTROL SAMPLE: 3534193

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3534194 3534195

Parameter	Units	3534194		3534195		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0032	0.0025	126	98	75-125	25	20 M1,R1

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch: 675274

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583953029

METHOD BLANK: 3534212

Matrix: Water

Associated Lab Samples: 92583953029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/02/22 12:18	

LABORATORY CONTROL SAMPLE: 3534213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3534214 3534215

Parameter	Units	3534214		3534215		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Mercury	mg/L	0.50 ug/L	0.0025	0.0025	0.0027	0.0025	89	80	75-125	9	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

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QC Batch:	674001	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: 92583953001, 92583953002, 92583953003, 92583953004, 92583953005, 92583953006, 92583953007

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METHOD BLANK: 3527668 Matrix: Water

Associated Lab Samples: 92583953001, 92583953002, 92583953003, 92583953004, 92583953005, 92583953006, 92583953007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	01/26/22 17:40	

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LABORATORY CONTROL SAMPLE: 3527669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	377	94	80-120	

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SAMPLE DUPLICATE: 3527670

Parameter	Units	92583746001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	214	215	0	25	

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SAMPLE DUPLICATE: 3527671

Parameter	Units	92583955001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	177	164	8	25	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch:	674255	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: 92583953008, 92583953009, 92583953010, 92583953011

METHOD BLANK: 3528806 Matrix: Water  
 Associated Lab Samples: 92583953008, 92583953009, 92583953010, 92583953011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	01/28/22 10:29	

LABORATORY CONTROL SAMPLE: 3528807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	385	96	80-120	

SAMPLE DUPLICATE: 3528809

Parameter	Units	92584530001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1740	1870	7	25	

SAMPLE DUPLICATE: 3530611

Parameter	Units	92583953011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1520	1540	1	25	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4  
 Pace Project No.: 92583953

QC Batch: 674961 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: 92583953012, 92583953013, 92583953014, 92583953015, 92583953016, 92583953017, 92583953018, 92583953019, 92583953020, 92583953021

METHOD BLANK: 3532863 Matrix: Water  
 Associated Lab Samples: 92583953012, 92583953013, 92583953014, 92583953015, 92583953016, 92583953017, 92583953018, 92583953019, 92583953020, 92583953021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	01/31/22 19:09	

LABORATORY CONTROL SAMPLE: 3532864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3532865

Parameter	Units	92583955011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	502	526	5	25	

SAMPLE DUPLICATE: 3532866

Parameter	Units	92583953014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	426	422	1	25	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4  
 Pace Project No.: 92583953

QC Batch: 675199 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: 92583953022, 92583953023, 92583953024, 92583953025

METHOD BLANK: 3533876 Matrix: Water  
 Associated Lab Samples: 92583953022, 92583953023, 92583953024, 92583953025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/01/22 13:52	

LABORATORY CONTROL SAMPLE: 3533877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	378	94	80-120	

SAMPLE DUPLICATE: 3533878

Parameter	Units	92583953022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	256	269	5	25	

SAMPLE DUPLICATE: 3533879

Parameter	Units	92584522003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	135	137	1	25	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch:	675202	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: 92583953026, 92583953027, 92583953028, 92583953029

METHOD BLANK: 3533883 Matrix: Water  
 Associated Lab Samples: 92583953026, 92583953027, 92583953028, 92583953029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/01/22 14:06	

LABORATORY CONTROL SAMPLE: 3533884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3533885

Parameter	Units	92584543008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	57.0	52.0	9	25	

SAMPLE DUPLICATE: 3533886

Parameter	Units	92585000001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	56.0	66.0	16	25	

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### QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4  
 Pace Project No.: 92583953

QC Batch: 795372 Analysis Method: SM 2320B  
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Minneapolis  
 Associated Lab Samples: 92583953001, 92583953002, 92583953003, 92583953004, 92583953005

METHOD BLANK: 4229775 Matrix: Water  
 Associated Lab Samples: 92583953001, 92583953002, 92583953003, 92583953004, 92583953005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	ND	5.0	1.8	01/25/22 20:46	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	ND	5.0	1.8	01/25/22 20:46	
Alkalinity,Carbonate (CaCO <sub>3</sub> )	mg/L	ND	5.0	1.8	01/25/22 20:46	

LABORATORY CONTROL SAMPLE & LCSD: 4229776 4229777

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	40	40.3	42.1	101	105	90-110	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4229778 4229779

Parameter	Units	92583955004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	12.0	40	40	44.3	43.6	81	79	80-120	2	20	M1

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch: 795582 Analysis Method: SM 2320B  
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Minneapolis  
 Associated Lab Samples: 92583953006, 92583953007, 92583953008, 92583953009, 92583953010

METHOD BLANK: 4230588 Matrix: Water  
 Associated Lab Samples: 92583953006, 92583953007, 92583953008, 92583953009, 92583953010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	01/26/22 17:18	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	01/26/22 17:18	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	01/26/22 17:18	

LABORATORY CONTROL SAMPLE & LCSD: 4230589 4230590

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	42.6	42.5	106	106	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4230591 4230592

Parameter	Units	10595194001 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	241	40	40	280	280	96	96	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4230593 4230594

Parameter	Units	10595253004 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	62.9	40	40	103	103	100	100	80-120	0	20	

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### QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4  
 Pace Project No.: 92583953

QC Batch: 795662 Analysis Method: SM 2320B  
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Minneapolis  
 Associated Lab Samples: 92583953011, 92583953012, 92583953013, 92583953014, 92583953015, 92583953016, 92583953017, 92583953018

METHOD BLANK: 4230834 Matrix: Water  
 Associated Lab Samples: 92583953011, 92583953012, 92583953013, 92583953014, 92583953015, 92583953016, 92583953017, 92583953018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	01/27/22 15:32	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	01/27/22 15:32	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	01/27/22 15:32	

LABORATORY CONTROL SAMPLE & LCSD: 4230835 4230836

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	41.8	37.4	105	94	90-110	11	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4230837 4230838

Parameter	Units	92583955011 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	26.8	40	40	66.4	66.4	99	99	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4230839 4230840

Parameter	Units	10595396002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	111	40	40	140	149	73	96	80-120	6	20	M1

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### QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4  
 Pace Project No.: 92583953

QC Batch: 796365 Analysis Method: SM 2320B  
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Minneapolis  
 Associated Lab Samples: 92583953019, 92583953020, 92583953021

METHOD BLANK: 4233805 Matrix: Water  
 Associated Lab Samples: 92583953019, 92583953020, 92583953021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	02/01/22 15:36	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/01/22 15:36	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	02/01/22 15:36	

LABORATORY CONTROL SAMPLE & LCSD: 4233806 4233807

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	42.4	42.3	106	106	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4233808 4233809

Parameter	Units	10595643008 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	112	40	40	152	153	100	100	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4233810 4233811

Parameter	Units	10595643011 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	216	40	40	255	256	98	99	80-120	0	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4  
 Pace Project No.: 92583953

QC Batch: 796618 Analysis Method: SM 2320B  
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Minneapolis  
 Associated Lab Samples: 92583953022, 92583953023, 92583953024, 92583953025

METHOD BLANK: 4234697 Matrix: Water  
 Associated Lab Samples: 92583953022, 92583953023, 92583953024, 92583953025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	02/02/22 14:45	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/02/22 14:45	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	02/02/22 14:45	

LABORATORY CONTROL SAMPLE & LCSD: 4234698 4234699

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	42.0	42.0	105	105	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4234700 4234701

Parameter	Units	92583600008 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	192	40	40	232	232	99	100	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4234702 4234703

Parameter	Units	10595445007 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	490	40	40	529	530	98	99	80-120	0	20	

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### QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4  
 Pace Project No.: 92583953

QC Batch: 796922 Analysis Method: SM 2320B  
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Minneapolis  
 Associated Lab Samples: 92583953026

METHOD BLANK: 4235794 Matrix: Water  
 Associated Lab Samples: 92583953026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	02/02/22 21:14	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/02/22 21:14	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	02/02/22 21:14	

LABORATORY CONTROL SAMPLE & LCSD: 4235795 4235796

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	42.2	42.2	106	105	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4235797 4235798

Parameter	Units	10596266001 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	20.9	40	40	60.9	60.9	100	100	80-120	0	20	

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### QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4  
 Pace Project No.: 92583953

QC Batch: 796923 Analysis Method: SM 2320B  
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Minneapolis  
 Associated Lab Samples: 92583953027, 92583953028, 92583953029

METHOD BLANK: 4235799 Matrix: Water  
 Associated Lab Samples: 92583953027, 92583953028, 92583953029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	02/02/22 21:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/02/22 21:34	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	02/02/22 21:34	

LABORATORY CONTROL SAMPLE & LCSD: 4235800 4235801

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	42.2	42.3	105	106	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4235802 4235803

Parameter	Units	92583953027 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	5.3	40	40	43.7	43.4	96	95	80-120	1	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4  
 Pace Project No.: 92583953

QC Batch: 673554 Analysis Method: EPA 300.0 Rev 2.1 1993  
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
 Laboratory: Pace Analytical Services - Asheville  
 Associated Lab Samples: 92583953001, 92583953002, 92583953003, 92583953004, 92583953005, 92583953006, 92583953007, 92583953008, 92583953009, 92583953010

METHOD BLANK: 3525639 Matrix: Water  
 Associated Lab Samples: 92583953001, 92583953002, 92583953003, 92583953004, 92583953005, 92583953006, 92583953007, 92583953008, 92583953009, 92583953010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/25/22 13:04	
Fluoride	mg/L	ND	0.10	0.050	01/25/22 13:04	
Sulfate	mg/L	ND	1.0	0.50	01/25/22 13:04	

LABORATORY CONTROL SAMPLE: 3525640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.9	102	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	51.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525641 3525642

Parameter	Units	92583953001		3525642		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chloride	mg/L	2.0	50	50	53.1	53.7	102	103	90-110	1	10
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	96	97	90-110	0	10
Sulfate	mg/L	101	50	50	145	146	89	91	90-110	1	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525643 3525644

Parameter	Units	92583953001		3525644		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chloride	mg/L	2.0	50	50	50.2	52.2	96	101	90-110	4	10
Fluoride	mg/L	ND	2.5	2.5	2.2	2.6	88	102	90-110	15	10 M1, R1
Sulfate	mg/L	101	50	50	49.6	48.9	-102	-104	90-110	1	10 M1

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch: 673904 Analysis Method: EPA 300.0 Rev 2.1 1993  
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
 Laboratory: Pace Analytical Services - Asheville  
 Associated Lab Samples: 92583953011, 92583953012, 92583953013, 92583953014

METHOD BLANK: 3527216 Matrix: Water  
 Associated Lab Samples: 92583953011, 92583953012, 92583953013, 92583953014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/26/22 17:51	
Fluoride	mg/L	ND	0.10	0.050	01/26/22 17:51	
Sulfate	mg/L	ND	1.0	0.50	01/26/22 17:51	

LABORATORY CONTROL SAMPLE: 3527217

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3527218 3527219

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92584141001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	18.4	50	50	50	69.0	69.2	101	102	90-110	0	10	
Fluoride	mg/L	0.41	2.5	2.5	2.5	2.9	2.9	100	100	90-110	1	10	
Sulfate	mg/L	14.2	50	50	50	64.1	64.1	100	100	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3527220 3527221

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92584178003 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	2.1	50	50	50	53.4	54.4	102	105	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.4	2.4	93	96	90-110	3	10	
Sulfate	mg/L	11.6	50	50	50	62.4	63.0	102	103	90-110	1	10	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch:	673906	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92583953015, 92583953016, 92583953017, 92583953018

METHOD BLANK: 3527222 Matrix: Water  
 Associated Lab Samples: 92583953015, 92583953016, 92583953017, 92583953018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/27/22 00:49	
Fluoride	mg/L	ND	0.10	0.050	01/27/22 00:49	
Sulfate	mg/L	ND	1.0	0.50	01/27/22 00:49	

LABORATORY CONTROL SAMPLE: 3527223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.9	104	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	50.4	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3527224 3527225

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583953015 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	11.3	50	50	63.0	63.1	104	104	90-110	0	10		
Fluoride	mg/L	0.59	2.5	2.5	4.0	3.9	135	132	90-110	2	10	M1	
Sulfate	mg/L	265	50	50	305	308	81	86	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3527226 3527227

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92584200005 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	18.6	50	50	69.9	70.6	103	104	90-110	1	10		
Fluoride	mg/L	0.087J	2.5	2.5	2.4	2.4	92	94	90-110	2	10		
Sulfate	mg/L	45.2	50	50	94.9	96.6	99	103	90-110	2	10		

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch: 674218	Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92583953019

METHOD BLANK: 3528694 Matrix: Water

Associated Lab Samples: 92583953019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/27/22 20:50	
Fluoride	mg/L	ND	0.10	0.050	01/27/22 20:50	
Sulfate	mg/L	ND	1.0	0.50	01/27/22 20:50	

LABORATORY CONTROL SAMPLE: 3528695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.3	103	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	49.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3528696 3528697

Parameter	Units	92584437011		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual	
Chloride	mg/L	10.0	50	50	61.4	61.5	103	103	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	106	108	90-110	2	10		
Sulfate	mg/L	5.0	50	50	55.8	55.3	102	101	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3528698 3528699

Parameter	Units	92584543005		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual	
Chloride	mg/L	7.8	50	50	59.0	60.6	102	106	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	95	99	90-110	4	10		
Sulfate	mg/L	4.7	50	50	54.8	57.0	100	105	90-110	4	10		

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch:	674220	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92583953020, 92583953021, 92583953022, 92583953023, 92583953024, 92583953025

METHOD BLANK: 3528706 Matrix: Water  
 Associated Lab Samples: 92583953020, 92583953021, 92583953022, 92583953023, 92583953024, 92583953025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/28/22 03:48	
Fluoride	mg/L	ND	0.10	0.050	01/28/22 03:48	
Sulfate	mg/L	ND	1.0	0.50	01/28/22 03:48	

LABORATORY CONTROL SAMPLE: 3528707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.8	102	90-110	
Fluoride	mg/L	2.5	2.4	98	90-110	
Sulfate	mg/L	50	49.1	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3528708 3528709

Parameter	Units	92583953020		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	14.1	50	50	66.6	66.4	105	105	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	99	100	90-110	1	10		
Sulfate	mg/L	250	50	50	297	288	94	77	90-110	3	10 M1		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3528710 3528711

Parameter	Units	92584465001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	8.3	50	50	60.5	61.3	104	106	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	96	98	90-110	2	10		
Sulfate	mg/L	4.5	50	50	56.1	56.5	103	104	90-110	1	10		

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

QC Batch:	674479	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92583953026, 92583953027, 92583953028, 92583953029

METHOD BLANK: 3530364 Matrix: Water  
 Associated Lab Samples: 92583953026, 92583953027, 92583953028, 92583953029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/29/22 12:30	
Fluoride	mg/L	ND	0.10	0.050	01/29/22 12:30	
Sulfate	mg/L	ND	1.0	0.50	01/29/22 12:30	

LABORATORY CONTROL SAMPLE: 3530365

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.2	102	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	49.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3530366 3530367

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92584825001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	1.7	50	50	52.4	53.7	101	104	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	96	99	90-110	3	10		
Sulfate	mg/L	1.1	50	50	51.5	53.1	101	104	90-110	3	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3530368 3530369

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583953028 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	ND	50	50	51.7	51.3	103	103	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.7	2.4	109	96	90-110	12	10	R1	
Sulfate	mg/L	ND	50	50	51.5	50.7	103	101	90-110	2	10		

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## QUALIFIERS

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

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### 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

Pace Project No.: 92583953

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583953001	DGWC-2				
92583953002	DGWC-21				
92583953003	DGWC-22				
92583953004	DGWC-23				
92583953005	DGWC-42				
92583953008	DGWC-20				
92583953009	DGWC-47				
92583953011	DGWC-4				
92583953012	DGWC-5				
92583953013	DGWC-15				
92583953014	DGWC-17				
92583953015	DGWC-48				
92583953019	DGWC-8				
92583953020	DGWC-11				
92583953021	DGWC-12				
92583953022	DGWC-13				
92583953023	DGWC-14				
92583953024	DGWC-19				
92583953026	DGWC-9				
92583953027	DGWC-10				
92583953001	DGWC-2	EPA 3010A	673590	EPA 6010D	673658
92583953002	DGWC-21	EPA 3010A	673590	EPA 6010D	673658
92583953003	DGWC-22	EPA 3010A	673590	EPA 6010D	673658
92583953004	DGWC-23	EPA 3010A	673590	EPA 6010D	673658
92583953005	DGWC-42	EPA 3010A	673590	EPA 6010D	673658
92583953006	FB-1	EPA 3010A	673590	EPA 6010D	673658
92583953007	FB-2	EPA 3010A	673590	EPA 6010D	673658
92583953008	DGWC-20	EPA 3010A	673590	EPA 6010D	673658
92583953009	DGWC-47	EPA 3010A	673590	EPA 6010D	673658
92583953010	FB-3	EPA 3010A	673590	EPA 6010D	673658
92583953011	DGWC-4	EPA 3010A	674583	EPA 6010D	674684
92583953012	DGWC-5	EPA 3010A	674583	EPA 6010D	674684
92583953013	DGWC-15	EPA 3010A	674583	EPA 6010D	674684
92583953014	DGWC-17	EPA 3010A	674583	EPA 6010D	674684
92583953015	DGWC-48	EPA 3010A	674583	EPA 6010D	674684
92583953016	EB-4	EPA 3010A	674583	EPA 6010D	674684
92583953017	FB-4	EPA 3010A	674955	EPA 6010D	675033
92583953018	DUP-4	EPA 3010A	674955	EPA 6010D	675033
92583953019	DGWC-8	EPA 3010A	674955	EPA 6010D	675033
92583953020	DGWC-11	EPA 3010A	674955	EPA 6010D	675033
92583953021	DGWC-12	EPA 3010A	674955	EPA 6010D	675033
92583953022	DGWC-13	EPA 3010A	674955	EPA 6010D	675033
92583953023	DGWC-14	EPA 3010A	674955	EPA 6010D	675033
92583953024	DGWC-19	EPA 3010A	674955	EPA 6010D	675033
92583953025	FB-5	EPA 3010A	674955	EPA 6010D	675033
92583953026	DGWC-9	EPA 3010A	674955	EPA 6010D	675033
92583953027	DGWC-10	EPA 3010A	674955	EPA 6010D	675033

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583953028	FB-6	EPA 3010A	674955	EPA 6010D	675033
92583953029	DUP-5	EPA 3010A	674955	EPA 6010D	675033
92583953001	DGWC-2	EPA 3005A	673615	EPA 6020B	673659
92583953002	DGWC-21	EPA 3005A	673615	EPA 6020B	673659
92583953003	DGWC-22	EPA 3005A	673615	EPA 6020B	673659
92583953004	DGWC-23	EPA 3005A	673615	EPA 6020B	673659
92583953005	DGWC-42	EPA 3005A	673615	EPA 6020B	673659
92583953006	FB-1	EPA 3005A	673615	EPA 6020B	673659
92583953007	FB-2	EPA 3005A	673615	EPA 6020B	673659
92583953008	DGWC-20	EPA 3005A	673615	EPA 6020B	673659
92583953009	DGWC-47	EPA 3005A	673615	EPA 6020B	673659
92583953010	FB-3	EPA 3005A	673615	EPA 6020B	673659
92583953011	DGWC-4	EPA 3005A	675780	EPA 6020B	675870
92583953012	DGWC-5	EPA 3005A	675780	EPA 6020B	675870
92583953013	DGWC-15	EPA 3005A	675780	EPA 6020B	675870
92583953014	DGWC-17	EPA 3005A	675780	EPA 6020B	675870
92583953015	DGWC-48	EPA 3005A	675780	EPA 6020B	675870
92583953016	EB-4	EPA 3005A	675780	EPA 6020B	675870
92583953017	FB-4	EPA 3005A	675780	EPA 6020B	675870
92583953018	DUP-4	EPA 3005A	675780	EPA 6020B	675870
92583953019	DGWC-8	EPA 3005A	675780	EPA 6020B	675870
92583953020	DGWC-11	EPA 3005A	675780	EPA 6020B	675870
92583953021	DGWC-12	EPA 3005A	675780	EPA 6020B	675870
92583953022	DGWC-13	EPA 3005A	675780	EPA 6020B	675870
92583953023	DGWC-14	EPA 3005A	675780	EPA 6020B	675870
92583953024	DGWC-19	EPA 3005A	675780	EPA 6020B	675870
92583953025	FB-5	EPA 3005A	675780	EPA 6020B	675870
92583953026	DGWC-9	EPA 3005A	675834	EPA 6020B	675916
92583953027	DGWC-10	EPA 3005A	675834	EPA 6020B	675916
92583953028	FB-6	EPA 3005A	675834	EPA 6020B	675916
92583953029	DUP-5	EPA 3005A	675834	EPA 6020B	675916
92583953001	DGWC-2	EPA 7470A	674969	EPA 7470A	675136
92583953002	DGWC-21	EPA 7470A	674969	EPA 7470A	675136
92583953003	DGWC-22	EPA 7470A	674969	EPA 7470A	675136
92583953004	DGWC-23	EPA 7470A	674969	EPA 7470A	675136
92583953005	DGWC-42	EPA 7470A	674969	EPA 7470A	675136
92583953006	FB-1	EPA 7470A	674969	EPA 7470A	675136
92583953007	FB-2	EPA 7470A	674969	EPA 7470A	675136
92583953008	DGWC-20	EPA 7470A	674969	EPA 7470A	675136
92583953009	DGWC-47	EPA 7470A	675271	EPA 7470A	675500
92583953010	FB-3	EPA 7470A	675271	EPA 7470A	675500
92583953011	DGWC-4	EPA 7470A	675271	EPA 7470A	675500
92583953012	DGWC-5	EPA 7470A	675271	EPA 7470A	675500
92583953013	DGWC-15	EPA 7470A	675271	EPA 7470A	675500
92583953014	DGWC-17	EPA 7470A	675271	EPA 7470A	675500
92583953015	DGWC-48	EPA 7470A	675271	EPA 7470A	675500

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: MCDONOUGH AP-2, 3/4  
 Pace Project No.: 92583953

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583953016	EB-4	EPA 7470A	675271	EPA 7470A	675500
92583953017	FB-4	EPA 7470A	675271	EPA 7470A	675500
92583953018	DUP-4	EPA 7470A	675271	EPA 7470A	675500
92583953019	DGWC-8	EPA 7470A	675271	EPA 7470A	675500
92583953020	DGWC-11	EPA 7470A	675271	EPA 7470A	675500
92583953021	DGWC-12	EPA 7470A	675271	EPA 7470A	675500
92583953022	DGWC-13	EPA 7470A	675271	EPA 7470A	675500
92583953023	DGWC-14	EPA 7470A	675271	EPA 7470A	675500
92583953024	DGWC-19	EPA 7470A	675271	EPA 7470A	675500
92583953025	FB-5	EPA 7470A	675271	EPA 7470A	675500
92583953026	DGWC-9	EPA 7470A	675271	EPA 7470A	675500
92583953027	DGWC-10	EPA 7470A	675271	EPA 7470A	675500
92583953028	FB-6	EPA 7470A	675271	EPA 7470A	675500
92583953029	DUP-5	EPA 7470A	675274	EPA 7470A	675501
92583953001	DGWC-2	SM 2540C-2015	674001		
92583953002	DGWC-21	SM 2540C-2015	674001		
92583953003	DGWC-22	SM 2540C-2015	674001		
92583953004	DGWC-23	SM 2540C-2015	674001		
92583953005	DGWC-42	SM 2540C-2015	674001		
92583953006	FB-1	SM 2540C-2015	674001		
92583953007	FB-2	SM 2540C-2015	674001		
92583953008	DGWC-20	SM 2540C-2015	674255		
92583953009	DGWC-47	SM 2540C-2015	674255		
92583953010	FB-3	SM 2540C-2015	674255		
92583953011	DGWC-4	SM 2540C-2015	674255		
92583953012	DGWC-5	SM 2540C-2015	674961		
92583953013	DGWC-15	SM 2540C-2015	674961		
92583953014	DGWC-17	SM 2540C-2015	674961		
92583953015	DGWC-48	SM 2540C-2015	674961		
92583953016	EB-4	SM 2540C-2015	674961		
92583953017	FB-4	SM 2540C-2015	674961		
92583953018	DUP-4	SM 2540C-2015	674961		
92583953019	DGWC-8	SM 2540C-2015	674961		
92583953020	DGWC-11	SM 2540C-2015	674961		
92583953021	DGWC-12	SM 2540C-2015	674961		
92583953022	DGWC-13	SM 2540C-2015	675199		
92583953023	DGWC-14	SM 2540C-2015	675199		
92583953024	DGWC-19	SM 2540C-2015	675199		
92583953025	FB-5	SM 2540C-2015	675199		
92583953026	DGWC-9	SM 2540C-2015	675202		
92583953027	DGWC-10	SM 2540C-2015	675202		
92583953028	FB-6	SM 2540C-2015	675202		
92583953029	DUP-5	SM 2540C-2015	675202		
92583953001	DGWC-2	SM 2320B	795372		
92583953002	DGWC-21	SM 2320B	795372		

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: MCDONOUGH AP-2, 3/4  
 Pace Project No.: 92583953

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583953003	DGWC-22	SM 2320B	795372		
92583953004	DGWC-23	SM 2320B	795372		
92583953005	DGWC-42	SM 2320B	795372		
92583953006	FB-1	SM 2320B	795582		
92583953007	FB-2	SM 2320B	795582		
92583953008	DGWC-20	SM 2320B	795582		
92583953009	DGWC-47	SM 2320B	795582		
92583953010	FB-3	SM 2320B	795582		
92583953011	DGWC-4	SM 2320B	795662		
92583953012	DGWC-5	SM 2320B	795662		
92583953013	DGWC-15	SM 2320B	795662		
92583953014	DGWC-17	SM 2320B	795662		
92583953015	DGWC-48	SM 2320B	795662		
92583953016	EB-4	SM 2320B	795662		
92583953017	FB-4	SM 2320B	795662		
92583953018	DUP-4	SM 2320B	795662		
92583953019	DGWC-8	SM 2320B	796365		
92583953020	DGWC-11	SM 2320B	796365		
92583953021	DGWC-12	SM 2320B	796365		
92583953022	DGWC-13	SM 2320B	796618		
92583953023	DGWC-14	SM 2320B	796618		
92583953024	DGWC-19	SM 2320B	796618		
92583953025	FB-5	SM 2320B	796618		
92583953026	DGWC-9	SM 2320B	796922		
92583953027	DGWC-10	SM 2320B	796923		
92583953028	FB-6	SM 2320B	796923		
92583953029	DUP-5	SM 2320B	796923		
92583953001	DGWC-2	EPA 300.0 Rev 2.1 1993	673554		
92583953002	DGWC-21	EPA 300.0 Rev 2.1 1993	673554		
92583953003	DGWC-22	EPA 300.0 Rev 2.1 1993	673554		
92583953004	DGWC-23	EPA 300.0 Rev 2.1 1993	673554		
92583953005	DGWC-42	EPA 300.0 Rev 2.1 1993	673554		
92583953006	FB-1	EPA 300.0 Rev 2.1 1993	673554		
92583953007	FB-2	EPA 300.0 Rev 2.1 1993	673554		
92583953008	DGWC-20	EPA 300.0 Rev 2.1 1993	673554		
92583953009	DGWC-47	EPA 300.0 Rev 2.1 1993	673554		
92583953010	FB-3	EPA 300.0 Rev 2.1 1993	673554		
92583953011	DGWC-4	EPA 300.0 Rev 2.1 1993	673904		
92583953012	DGWC-5	EPA 300.0 Rev 2.1 1993	673904		
92583953013	DGWC-15	EPA 300.0 Rev 2.1 1993	673904		
92583953014	DGWC-17	EPA 300.0 Rev 2.1 1993	673904		
92583953015	DGWC-48	EPA 300.0 Rev 2.1 1993	673906		
92583953016	EB-4	EPA 300.0 Rev 2.1 1993	673906		
92583953017	FB-4	EPA 300.0 Rev 2.1 1993	673906		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2, 3/4

Pace Project No.: 92583953

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583953018	DUP-4	EPA 300.0 Rev 2.1 1993	673906		
92583953019	DGWC-8	EPA 300.0 Rev 2.1 1993	674218		
92583953020	DGWC-11	EPA 300.0 Rev 2.1 1993	674220		
92583953021	DGWC-12	EPA 300.0 Rev 2.1 1993	674220		
92583953022	DGWC-13	EPA 300.0 Rev 2.1 1993	674220		
92583953023	DGWC-14	EPA 300.0 Rev 2.1 1993	674220		
92583953024	DGWC-19	EPA 300.0 Rev 2.1 1993	674220		
92583953025	FB-5	EPA 300.0 Rev 2.1 1993	674220		
92583953026	DGWC-9	EPA 300.0 Rev 2.1 1993	674479		
92583953027	DGWC-10	EPA 300.0 Rev 2.1 1993	674479		
92583953028	FB-6	EPA 300.0 Rev 2.1 1993	674479		
92583953029	DUP-5	EPA 300.0 Rev 2.1 1993	674479		

### REPORT OF LABORATORY ANALYSIS

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Document Name  
 Sample Collection Open Receipt (FORM)  
 Document No.  
 1-Link (9-03) Rev 06

Document Review: November 15, 2016  
 Page 1 of 2  
 Issued to: (Name)  
 Pace Chemical Supply, Inc.

Laboratory receiving samples:

#Shawnee  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Client Name:  
 [Redacted]

Client Name:

Project # **W04 : 92583953**

Counter:  Vials  Bags  Jars  Other  
 Containers:  Paper  Glass



Container Seal Present?  Yes  No Seal Intact?  Yes  No

Date/Time of Person Receiving Samples: 11/15/16

Shipping Material:  Padded (bags)  Bubble wrap  Other  Other  
 Temperature:  Ambient  Cold  Dry  None

Metals Trace Element:  Yes  No

Order Terms: 1-7 Connection Factor: ± 0.1

Temp. should be above freezing to 6°C  
 Has placed out of temp. within samples since sealing process  
 (if origin)

Order Terms (continued) 3.9

USDA Regulated Soil?  Yes, require samples

Do samples originate from a regulated area with a chemical land disposal ban?  Yes  No

Do samples originate from a foreign source?  Yes  No

Comments/Remarks:

Order of Priority Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1
Sampled From 1st 100 Field Bags?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2
Sampled From 2nd 100 Field Bags?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	3
Each Full Amount Taken Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	4
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5
Correct Containers used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	6
Proper Container used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	7
Seal Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	8
Sealed properly (Samples from 1 bag)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	9
Proper Label Match COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	10
Include Date/Time/Signature	[Signature]			
Reference to VOA state (order #)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11
Proper BTL Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	12
Proper Label Custody (order #)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	13

COMMENTS/ISSUES DESCRIBED: Additional Request?  Yes  No

DATE OF YOUR RECEIPT: \_\_\_\_\_

PAUSE SIGNATURE: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_

PROJECT MANAGER/CLIENT REVIEW: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PROJECT MANAGER/SW REVIEW: \_\_\_\_\_ DATE: \_\_\_\_\_





Laboratory receiving locations:

Jacksonville  Eden  Casswood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Information

Client Name \_\_\_\_\_  
 Country  For Return  To Lab  From Lab  Other  Event

Project ID: **WO# : 92583953**  
 P#: NMG Due Date: 02/04/09  
 CLIENT: GA-CA Power

Country of Origin?  Yes  No (check one)  Yes  No

Date/Time of Sample (including Container) 02/03/09

Receiving Material  Room Temp  Mobile Lab  None  Other  
 Receiving Location  In Control  Other

Biological/Toxic Process?  Yes  No

Client Type MFG Collection Point AGC/Supplier (S) SCU

Temp should be above freezing (F/C)?  
 Sample out of temp control Temp in control (using process feedback)

Cooler Temp Correlated (C)? Yes  
 USDA Regulated Soil?  Yes  No (check one)

Do all major ingredients in this sample come within the United States (US, US or SC) (check one)?  
 Yes  No

Do samples originate from a foreign source or manufacturer requiring Hazardous Waste Label?  Yes  No  
 Consensus/Discrepancy

Chemical Contaminant Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	
Sample stored in the correct temp?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	
Sample held from analysis (N/A to J)	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Blank Test Allowed From Supplier?	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Supplier (Yes/No)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	
Supplier (All labels used)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	
Supplier (All containers used)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	
Container (Label)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	
Collected and/or Sampled From Correct?	<input type="checkbox"/> No	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	
Sample sealed with LDC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No	

Is this Sample Hazardous Material (Y/N)? Yes  
 Sample in MCL Vials (Yes/No)?  Yes  No  
 Toxins Present?  No  Yes  
 Toxins? Country of Origin Present?  No  Yes

Container/Labeling Information  Yes  No

Client & Other Information

Person Contacted \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Project Manager SCUR Review \_\_\_\_\_ Date \_\_\_\_\_  
 Project Manager SPS Review \_\_\_\_\_ Date \_\_\_\_\_

**CHAIN OF CUSTODY (Analytical Request Document)**  
 The Laboratory is not responsible for the accuracy of information supplied by the customer's laboratory.

*[Signature]*

Client Name	Client Address	Client City	Client State	Client Zip
Client Phone	Client Fax	Client E-mail	Client Website	Client Account #
Client Order #	Client Order Date	Client Order Time	Client Order Location	Client Order Description
Client Order Reference	Client Order Reference	Client Order Reference	Client Order Reference	Client Order Reference
Client Order Reference	Client Order Reference	Client Order Reference	Client Order Reference	Client Order Reference

SAMPLE ID	Description	Collection		Analysis		Reporting	
		Date	Time	Method	Result	Unit	Notes
00001	...	...	...	...	...	...	...
00002	...	...	...	...	...	...	...
00003	...	...	...	...	...	...	...
00004	...	...	...	...	...	...	...
00005	...	...	...	...	...	...	...
00006	...	...	...	...	...	...	...
00007	...	...	...	...	...	...	...
00008	...	...	...	...	...	...	...
00009	...	...	...	...	...	...	...
00010	...	...	...	...	...	...	...

Client Name	Client Address	Client City	Client State	Client Zip
Client Phone	Client Fax	Client E-mail	Client Website	Client Account #
Client Order #	Client Order Date	Client Order Time	Client Order Location	Client Order Description
Client Order Reference	Client Order Reference	Client Order Reference	Client Order Reference	Client Order Reference
Client Order Reference	Client Order Reference	Client Order Reference	Client Order Reference	Client Order Reference

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*Handwritten logo*

Document Name  
Commission Upon Request (CURP)  
Document No  
PC-000-2018-000000

Document Control No: 00000001  
Page 2 of 2  
Issued By: [Handwritten]  
Date: 02/04/22

Laboratory receiving samples

Ashburn  Eden  Greenwood  Huntlands  Raleigh  Mechanicsville  Adams  Kernersville

Site Information

Client Name  
**GA Power**

Project # **NO# : 92583953**

PR: HNC Due Date: 02/04/22  
CLIENT: GA-GR Power

Counters  
 Commercial  Other

Drill Type  
 Core  Auger  Split  Other

Contents Soil Present?  Yes  No  Seal Material  Yes  No

Additional Notes (Including Comments) **[Handwritten]**

Typing Material:  Substrate  Paper  Other

Biological Testing Required?  Yes  No

Pharmaceutical:  Yes  No

**2.14**  
**3.0**  
Collection Factor: **40.1**  
**3.1**

Temp should be above freezing at 0°C  
 Sample not at Temp. Sample should be in cooling process  
For Project

Cooler Temp Covered  No

USDA Registered Soil?  No, water samples

Let samples equilibrate to a temperature prior within the labeled Street EA for 24 hours (if needed)  
 Yes  No

Are samples being taken from a depth below 100 feet?  No  Yes  
Comments (Including Comments)

Chain of Custody Element	Yes	No	NA
Sampled After Locking gate Tank	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Short Lead Time Analysis (LTL) by 11	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Short Lead Time Analysis (LTL) by 11	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Substrate Material	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Topsoil (within 100 ft)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flow Control (100 ft)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Container Sealed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overhead and/or Sample Take Location	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Temperature within 0.5°C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Additional Chain of Custody Element	Yes	No	NA
Hourly/Date/Time/Temp/11/11/2022	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Topsoil (within 100 ft)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Flow Control (100 ft)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments (Including Comments)

11/11/2022 Required?  Yes  No

Lot ID of soil (if any)

City/Town/County/Zip

Person contacted

Date/Time

Project Manager CURP Review

Date

Project Manager SAT Review

Date

**CHAIN OF CUSTODY / Analytical Record Document**  
 This Chain of Custody is a Form 1000 (REV. 10/2007) of various health care facilities and laboratories.

*Signature*

Form 1000 (REV. 10/2007)

Page 1 of 2

Case Name: \_\_\_\_\_  
 Patient Name: \_\_\_\_\_  
 Date of Birth: \_\_\_\_\_  
 Date of Collection: \_\_\_\_\_  
 Time of Collection: \_\_\_\_\_  
 Location of Collection: \_\_\_\_\_  
 Name of Collector: \_\_\_\_\_  
 Name of Custodian: \_\_\_\_\_

Sample ID	Description	Quantity	Date/Time	Collector	Custodian	Analysis		Remarks
						Method	Result	
1	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...

Signature of Collector: \_\_\_\_\_  
 Signature of Custodian: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_  
 Location: \_\_\_\_\_





Document Name  
Sample Capacity - Laser Beam (SCUM)  
Document No  
1-CAR-02-000-000-00

Document Revised: November 15, 2021  
Page 1 of 1  
Issued Authority  
FaceScan Administration Office

Laboratory Testing Samples:

Ashburn  Eden  Greenwood  Manassas  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Conditions  
Laser Beam

Client Name: GA Power

Project # **WO# : 92583953**

Camera  Laser Beam  UFS  UFS  Laser Beam  Laser Beam

Part: NPG Due Date: 02/04/23  
CLIENT: GA-GA Power

Contact Seal Present?  Yes  No Seal Height:  100  150

Defective Parts: Laser Beam 1 / 1 / 1

Printing Method:  Bubble Wrap  Bubble Bag  Paper  Other  
Thick Material:  All Good  0.84  1.00  1.25  1.50  2.00

Polymers: Paper Present  
 Yes  No

Cooler Temp: 1.00 Correction Factor: +0.2  
Accuracy: 1.2

Time Allowed or Above Limiting to 60  
 Samples out of range of the factory set or in a testing process  
Not OK

Color Error Connected (Y/N)  
United Regulating Set:  N/A, water sensor

Do I require any parts in a queue and the room with in the United States? Do I need any parts in a queue?

Do I require any parts in a queue and the room with in the United States? Do I need any parts in a queue?  
Community Management

Check if Contact Present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Missing: Arrived in 15 min. of time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Power: Power Line Analysis (Y/N) for IP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Power: Power Analysis Power Requirement?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sufficient power?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Contact: Contact Present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Field: Contact Present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Contact: Contact Present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Power: Power Line Analysis (Y/N) for IP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Power: Power Analysis Power Requirement?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

High Voltage of the power (Y/N) present?  
High Voltage of the power (Y/N) present?  
High Voltage of the power (Y/N) present?

Power Data Required?  Yes  No

Customer Name: GA Power

Call ID of your customer

Person Contacted

Contact No.

Project Manager SCUM: Benjamin

Date

Project Manager SRS Reviewer

Date





April 20, 2022

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

RE: Project: MCDONOUGH AP-2, 3/4 RAD  
Pace Project No.: 92583950

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between January 21, 2022 and January 27, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

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

Enclosures

cc: Stephen Benda  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power  
Kristen Jurinko  
Karim Minkara, Golder Associates - Atlanta  
J. Shelby Mobley  
Charles Norton, Southern Company  
Ms. Lauren Petty, Southern Company  
Dawn Prell, Golder Associates Inc.



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MCDONOUGH AP-2, 3/4 RAD  
Pace Project No.: 92583950

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### 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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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92583950001	DGWC-2	Water	01/20/22 11:03	01/21/22 15:32
92583950002	DGWC-21	Water	01/20/22 16:13	01/21/22 15:32
92583950003	DGWC-22	Water	01/20/22 12:55	01/21/22 15:32
92583950004	DGWC-23	Water	01/20/22 10:55	01/21/22 15:32
92583950005	DGWC-42	Water	01/20/22 14:28	01/21/22 15:32
92583950006	FB-1	Water	01/20/22 12:40	01/21/22 15:32
92583950007	FB-2	Water	01/20/22 14:28	01/21/22 15:32
92583950008	DGWC-20	Water	01/21/22 11:15	01/21/22 15:32
92583950009	DGWC-47	Water	01/21/22 09:23	01/21/22 15:32
92583950010	FB-3	Water	01/21/22 11:55	01/21/22 15:32
92583950011	DGWC-4	Water	01/24/22 13:10	01/25/22 09:04
92583950012	DGWC-5	Water	01/24/22 10:32	01/25/22 09:04
92583950013	DGWC-15	Water	01/24/22 14:59	01/25/22 09:04
92583950014	DGWC-17	Water	01/24/22 14:45	01/25/22 09:04
92583950015	DGWC-48	Water	01/24/22 10:10	01/25/22 09:04
92583950016	EB-4	Water	01/24/22 14:55	01/25/22 09:04
92583950017	FB-4	Water	01/24/22 15:55	01/25/22 09:04
92583950018	DUP-4	Water	01/24/22 00:00	01/25/22 09:04
92583950019	DGWC-8	Water	01/25/22 11:45	01/26/22 08:51
92583950020	DGWC-11	Water	01/25/22 15:16	01/26/22 08:51
92583950021	DGWC-12	Water	01/25/22 10:48	01/26/22 08:51
92583950022	DGWC-13	Water	01/25/22 11:05	01/26/22 08:51
92583950023	DGWC-14	Water	01/25/22 09:47	01/26/22 08:51
92583950024	DGWC-19	Water	01/25/22 14:40	01/26/22 08:51
92583950025	FB-5	Water	01/25/22 10:15	01/26/22 08:51
92583950026	DGWC-9	Water	01/26/22 16:30	01/27/22 08:50
92583950027	DGWC-10	Water	01/26/22 14:30	01/27/22 08:50
92583950028	FB-6	Water	01/26/22 17:10	01/27/22 08:50
92583950029	DUP-5	Water	01/26/22 00:00	01/27/22 08:50

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583950001	DGWC-2	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950002	DGWC-21	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950003	DGWC-22	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950004	DGWC-23	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950005	DGWC-42	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950006	FB-1	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950007	FB-2	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950008	DGWC-20	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950009	DGWC-47	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950010	FB-3	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950011	DGWC-4	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950012	DGWC-5	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583950013	DGWC-15	EPA 9315	JJY	1	PASI-PA

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583950014	DGWC-17	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583950015	DGWC-48	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583950016	EB-4	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583950017	FB-4	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583950018	DUP-4	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583950019	DGWC-8	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583950020	DGWC-11	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583950021	DGWC-12	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583950022	DGWC-13	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583950023	DGWC-14	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583950024	DGWC-19	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583950025	FB-5	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583950026	DGWC-9	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92583950027	DGWC-10	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92583950028	FB-6	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92583950029	DUP-5	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-2</b> <b>Lab ID: 92583950001</b> Collected: 01/20/22 11:03      Received: 01/21/22 15:32      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.508 ± 0.230 (0.234)</b> <b>C:85% T:NA</b>	pCi/L	02/16/22 08:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.214 ± 0.328 (0.710)</b> <b>C:74% T:84%</b>	pCi/L	02/14/22 15:56	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.722 ± 0.558 (0.944)</b>	pCi/L	02/21/22 10:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

**Sample: DGWC-21**      **Lab ID: 92583950002**      Collected: 01/20/22 16:13      Received: 01/21/22 15:32      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	<b>0.107 ± 0.161 (0.355)</b> <b>C:94% T:NA</b>	pCi/L	02/16/22 08:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.230 ± 0.262 (0.545)</b> <b>C:84% T:86%</b>	pCi/L	02/14/22 15:56	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.337 ± 0.423 (0.900)</b>	pCi/L	02/21/22 10:09	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-22</b> <b>Lab ID: 92583950003</b> Collected: 01/20/22 12:55      Received: 01/21/22 15:32      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.244 ± 0.184 (0.323)</b> <b>C:94% T:NA</b>	pCi/L	02/16/22 08:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.0536 ± 0.244 (0.557)</b> <b>C:95% T:85%</b>	pCi/L	02/14/22 15:56	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.298 ± 0.428 (0.880)</b>	pCi/L	02/21/22 10:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

**Sample: DGWC-23**      **Lab ID: 92583950004**      Collected: 01/20/22 10:55      Received: 01/21/22 15:32      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	<b>0.404 ± 0.211 (0.276)</b> <b>C:91% T:NA</b>	pCi/L	02/16/22 08:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.206 ± 0.298 (0.641)</b> <b>C:85% T:85%</b>	pCi/L	02/14/22 15:56	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.610 ± 0.509 (0.917)</b>	pCi/L	02/21/22 10:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-42</b> <b>Lab ID: 92583950005</b> Collected: 01/20/22 14:28      Received: 01/21/22 15:32      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0182 ± 0.129 (0.335)</b> <b>C:92% T:NA</b>	pCi/L	02/16/22 08:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.0283 ± 0.268 (0.620)</b> <b>C:86% T:86%</b>	pCi/L	02/14/22 15:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.0465 ± 0.397 (0.955)</b>	pCi/L	02/21/22 10:09	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

**Sample: FB-1**      **Lab ID: 92583950006**      Collected: 01/20/22 12:40      Received: 01/21/22 15:32      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	<b>0.0112 ± 0.127 (0.337)</b> <b>C:90% T:NA</b>	pCi/L	02/16/22 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.385 ± 0.312 (0.617)</b> <b>C:88% T:82%</b>	pCi/L	02/14/22 16:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.396 ± 0.439 (0.954)</b>	pCi/L	02/21/22 10:09	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

**Sample: FB-2**      **Lab ID: 92583950007**      Collected: 01/20/22 14:28      Received: 01/21/22 15:32      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	<b>0.0455 ± 0.141 (0.345)</b> <b>C:94% T:NA</b>	pCi/L	02/16/22 08:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.343 ± 0.333 (0.681)</b> <b>C:80% T:82%</b>	pCi/L	02/14/22 16:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.389 ± 0.474 (1.03)</b>	pCi/L	02/21/22 10:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.355 ± 0.229 (0.379)</b> <b>C:84% T:NA</b>	pCi/L	02/16/22 08:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.471 ± 0.373 (0.743)</b> <b>C:81% T:88%</b>	pCi/L	02/14/22 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.826 ± 0.602 (1.12)</b>	pCi/L	02/21/22 10:09	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

**Sample: DGWC-47**      **Lab ID: 92583950009**      Collected: 01/21/22 09:23      Received: 01/21/22 15:32      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	<b>0.300 ± 0.237 (0.449)</b> <b>C:88% T:NA</b>	pCi/L	02/16/22 08:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.485 ± 0.378 (0.744)</b> <b>C:76% T:82%</b>	pCi/L	02/14/22 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.785 ± 0.615 (1.19)</b>	pCi/L	02/21/22 10:09	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

**Sample: FB-3**      **Lab ID: 92583950010**      Collected: 01/21/22 11:55      Received: 01/21/22 15:32      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	<b>-0.00221 ± 0.109 (0.304)</b> <b>C:95% T:NA</b>	pCi/L	02/16/22 08:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.0882 ± 0.348 (0.796)</b> <b>C:66% T:78%</b>	pCi/L	02/14/22 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.0882 ± 0.457 (1.10)</b>	pCi/L	02/21/22 10:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

**Sample: DGWC-4**      **Lab ID: 92583950011**      Collected: 01/24/22 13:10      Received: 01/25/22 09:04      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	<b>0.330 ± 0.159 (0.201)</b> <b>C:100% T:NA</b>	pCi/L	02/22/22 08:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.614 ± 0.417 (0.786)</b> <b>C:80% T:69%</b>	pCi/L	02/17/22 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.944 ± 0.576 (0.987)</b>	pCi/L	02/22/22 15:30	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-5</b> <b>Lab ID: 92583950012</b> Collected: 01/24/22 10:32      Received: 01/25/22 09:04      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.260 ± 0.147 (0.207)</b> <b>C:94% T:NA</b>	pCi/L	02/22/22 08:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.547 ± 0.336 (0.616)</b> <b>C:82% T:88%</b>	pCi/L	02/17/22 16:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.807 ± 0.483 (0.823)</b>	pCi/L	02/22/22 15:30	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

**Sample: DGWC-15**      **Lab ID: 92583950013**      Collected: 01/24/22 14:59      Received: 01/25/22 09:04      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	<b>0.135 ± 0.143 (0.293)</b> <b>C:94% T:NA</b>	pCi/L	02/22/22 08:14	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.399 ± 0.380 (0.777)</b> <b>C:81% T:80%</b>	pCi/L	02/17/22 16:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.534 ± 0.523 (1.07)</b>	pCi/L	02/22/22 15:30	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

**Sample: DGWC-17**      **Lab ID: 92583950014**      Collected: 01/24/22 14:45      Received: 01/25/22 09:04      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	<b>0.102 ± 0.0991 (0.185)</b> <b>C:98% T:NA</b>	pCi/L	02/22/22 08:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.590 ± 0.328 (0.574)</b> <b>C:81% T:91%</b>	pCi/L	02/17/22 16:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.692 ± 0.427 (0.759)</b>	pCi/L	02/22/22 15:30	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-48</b> <b>Lab ID: 92583950015</b> Collected: 01/24/22 10:10      Received: 01/25/22 09:04      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.228 ± 0.138 (0.204)</b> <b>C:97% T:NA</b>	pCi/L	02/22/22 08:17	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.440 ± 0.344 (0.676)</b> <b>C:78% T:90%</b>	pCi/L	02/17/22 16:22	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.668 ± 0.482 (0.880)</b>	pCi/L	02/22/22 15:30	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

**Sample: EB-4**      **Lab ID: 92583950016**      Collected: 01/24/22 14:55      Received: 01/25/22 09:04      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	<b>-0.0122 ± 0.0585 (0.183)</b> <b>C:98% T:NA</b>	pCi/L	02/22/22 08:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.209 ± 0.325 (0.704)</b> <b>C:80% T:89%</b>	pCi/L	02/17/22 16:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.209 ± 0.384 (0.887)</b>	pCi/L	02/22/22 15:30	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: FB-4</b> <b>Lab ID: 92583950017</b> Collected: 01/24/22 15:55      Received: 01/25/22 09:04      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>-0.00152 ± 0.0878 (0.242)</b> <b>C:99% T:NA</b>	pCi/L	02/22/22 08:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.496 ± 0.396 (0.783)</b> <b>C:74% T:86%</b>	pCi/L	02/17/22 16:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.496 ± 0.484 (1.03)</b>	pCi/L	02/22/22 15:30	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DUP-4</b> <b>Lab ID: 92583950018</b> Collected: 01/24/22 00:00      Received: 01/25/22 09:04      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.315 ± 0.176 (0.274)</b> <b>C:97% T:NA</b>	pCi/L	02/22/22 08:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.217 ± 0.281 (0.598)</b> <b>C:85% T:91%</b>	pCi/L	02/17/22 16:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.532 ± 0.457 (0.872)</b>	pCi/L	02/22/22 15:30	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-8</b> <b>Lab ID: 92583950019</b> Collected: 01/25/22 11:45      Received: 01/26/22 08:51      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0721 ± 0.115 (0.256)</b> <b>C:78% T:NA</b>	pCi/L	02/22/22 08:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.284 ± 0.289 (0.592)</b> <b>C:86% T:89%</b>	pCi/L	02/17/22 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.356 ± 0.404 (0.848)</b>	pCi/L	02/22/22 15:30	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-11</b> <b>Lab ID: 92583950020</b> Collected: 01/25/22 15:16      Received: 01/26/22 08:51      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.103 ± 0.103 (0.194)</b> <b>C:97% T:NA</b>	pCi/L	02/22/22 08:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.880 ± 0.447 (0.792)</b> <b>C:82% T:83%</b>	pCi/L	02/17/22 16:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.983 ± 0.550 (0.986)</b>	pCi/L	02/22/22 15:30	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-12</b> <b>Lab ID: 92583950021</b> Collected: 01/25/22 10:48      Received: 01/26/22 08:51      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.364 ± 0.169 (0.191)</b> <b>C:92% T:NA</b>	pCi/L	02/22/22 08:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.375 ± 0.341 (0.695)</b> <b>C:81% T:93%</b>	pCi/L	02/17/22 16:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.739 ± 0.510 (0.886)</b>	pCi/L	02/22/22 15:30	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-13</b> <b>Lab ID: 92583950022</b> Collected: 01/25/22 11:05      Received: 01/26/22 08:51      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.254 ± 0.139 (0.177)</b> <b>C:96% T:NA</b>	pCi/L	02/22/22 08:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>-0.0253 ± 0.328 (0.769)</b> <b>C:78% T:89%</b>	pCi/L	02/17/22 16:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.254 ± 0.467 (0.946)</b>	pCi/L	02/22/22 15:30	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-14</b> <b>Lab ID: 92583950023</b> Collected: 01/25/22 09:47      Received: 01/26/22 08:51      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.229 ± 0.140 (0.201)</b> <b>C:88% T:NA</b>	pCi/L	02/22/22 08:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>-0.0763 ± 0.341 (0.811)</b> <b>C:77% T:83%</b>	pCi/L	02/17/22 16:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.229 ± 0.481 (1.01)</b>	pCi/L	02/22/22 15:30	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.115 ± 0.122 (0.244)</b> <b>C:96% T:NA</b>	pCi/L	02/22/22 08:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.300 ± 0.433 (0.931)</b> <b>C:72% T:79%</b>	pCi/L	02/17/22 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.415 ± 0.555 (1.18)</b>	pCi/L	02/22/22 15:30	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

**Sample: FB-5**      **Lab ID: 92583950025**      Collected: 01/25/22 10:15      Received: 01/26/22 08:51      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	<b>0.0463 ± 0.0892 (0.205)</b> <b>C:99% T:NA</b>	pCi/L	02/22/22 08:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.458 ± 0.337 (0.653)</b> <b>C:79% T:88%</b>	pCi/L	02/17/22 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.504 ± 0.426 (0.858)</b>	pCi/L	02/22/22 15:30	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

**Sample: DGWC-9**      **Lab ID: 92583950026**      Collected: 01/26/22 16:30      Received: 01/27/22 08:50      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.237 ± 0.133 (0.169)</b> <b>C:96% T:NA</b>	pCi/L	02/22/22 10:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.552 ± 0.343 (0.635)</b> <b>C:84% T:86%</b>	pCi/L	02/17/22 16:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.789 ± 0.476 (0.804)</b>	pCi/L	02/22/22 15:30	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DGWC-10</b> <b>Lab ID: 92583950027</b> Collected: 01/26/22 14:30      Received: 01/27/22 08:50      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.182 ± 0.132 (0.225)</b> <b>C:93% T:NA</b>	pCi/L	02/22/22 10:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>1.03 ± 0.473 (0.799)</b> <b>C:81% T:84%</b>	pCi/L	02/17/22 16:22	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.21 ± 0.605 (1.02)</b>	pCi/L	02/22/22 15:30	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

**Sample: FB-6**      **Lab ID: 92583950028**      Collected: 01/26/22 17:10      Received: 01/27/22 08:50      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0230 ± 0.0763 (0.192)</b> <b>C:97% T:NA</b>	pCi/L	02/22/22 10:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.496 ± 0.387 (0.760)</b> <b>C:79% T:78%</b>	pCi/L	02/17/22 16:23	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.519 ± 0.463 (0.952)</b>	pCi/L	02/22/22 15:30	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DUP-5</b> <b>Lab ID: 92583950029</b> Collected: 01/26/22 00:00      Received: 01/27/22 08:50      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.456 ± 0.188 (0.189)</b> <b>C:88% T:NA</b>	pCi/L	02/22/22 10:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.36 ± 0.576 (0.974)</b> <b>C:74% T:90%</b>	pCi/L	02/17/22 16:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.82 ± 0.764 (1.16)</b>	pCi/L	02/22/22 15:30	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2, 3/4 RAD  
 Pace Project No.: 92583950

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QC Batch:	482061	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92583950001, 92583950002, 92583950003, 92583950004, 92583950005, 92583950006, 92583950007, 92583950008, 92583950009, 92583950010

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METHOD BLANK: 2330295 Matrix: Water

Associated Lab Samples: 92583950001, 92583950002, 92583950003, 92583950004, 92583950005, 92583950006, 92583950007, 92583950008, 92583950009, 92583950010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.129 ± 0.257 (0.566) C:88% T:86%	pCi/L	02/14/22 12:35	

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 AP-2, 3/4 RAD  
 Pace Project No.: 92583950

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QC Batch:	481462	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92583950001, 92583950002, 92583950003, 92583950004, 92583950005, 92583950006, 92583950007, 92583950008, 92583950009, 92583950010

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METHOD BLANK: 2326510 Matrix: Water

Associated Lab Samples: 92583950001, 92583950002, 92583950003, 92583950004, 92583950005, 92583950006, 92583950007, 92583950008, 92583950009, 92583950010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0222 ± 0.102 (0.264) C:95% T:NA	pCi/L	02/16/22 08:33	

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

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

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QC Batch:	482649	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92583950011, 92583950012, 92583950013, 92583950014, 92583950015, 92583950016, 92583950017, 92583950018, 92583950019, 92583950020, 92583950021, 92583950022, 92583950023, 92583950024, 92583950025, 92583950026, 92583950027, 92583950028, 92583950029

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METHOD BLANK: 2332796 Matrix: Water

Associated Lab Samples: 92583950011, 92583950012, 92583950013, 92583950014, 92583950015, 92583950016, 92583950017, 92583950018, 92583950019, 92583950020, 92583950021, 92583950022, 92583950023, 92583950024, 92583950025, 92583950026, 92583950027, 92583950028, 92583950029

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0799 ± 0.287 (0.651) C:86% T:84%	pCi/L	02/17/22 16:21	

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 AP-2, 3/4 RAD  
 Pace Project No.: 92583950

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QC Batch:	482302	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92583950011, 92583950012, 92583950013, 92583950014, 92583950015, 92583950016, 92583950017, 92583950018, 92583950019, 92583950020, 92583950021, 92583950022, 92583950023, 92583950024, 92583950025, 92583950026, 92583950027, 92583950028, 92583950029

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METHOD BLANK: 2331313 Matrix: Water

Associated Lab Samples: 92583950011, 92583950012, 92583950013, 92583950014, 92583950015, 92583950016, 92583950017, 92583950018, 92583950019, 92583950020, 92583950021, 92583950022, 92583950023, 92583950024, 92583950025, 92583950026, 92583950027, 92583950028, 92583950029

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0497 ± 0.0775 (0.168) C:96% T:NA	pCi/L	02/22/22 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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## QUALIFIERS

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583950001	DGWC-2	EPA 9315	481462		
92583950002	DGWC-21	EPA 9315	481462		
92583950003	DGWC-22	EPA 9315	481462		
92583950004	DGWC-23	EPA 9315	481462		
92583950005	DGWC-42	EPA 9315	481462		
92583950006	FB-1	EPA 9315	481462		
92583950007	FB-2	EPA 9315	481462		
92583950008	DGWC-20	EPA 9315	481462		
92583950009	DGWC-47	EPA 9315	481462		
92583950010	FB-3	EPA 9315	481462		
92583950011	DGWC-4	EPA 9315	482302		
92583950012	DGWC-5	EPA 9315	482302		
92583950013	DGWC-15	EPA 9315	482302		
92583950014	DGWC-17	EPA 9315	482302		
92583950015	DGWC-48	EPA 9315	482302		
92583950016	EB-4	EPA 9315	482302		
92583950017	FB-4	EPA 9315	482302		
92583950018	DUP-4	EPA 9315	482302		
92583950019	DGWC-8	EPA 9315	482302		
92583950020	DGWC-11	EPA 9315	482302		
92583950021	DGWC-12	EPA 9315	482302		
92583950022	DGWC-13	EPA 9315	482302		
92583950023	DGWC-14	EPA 9315	482302		
92583950024	DGWC-19	EPA 9315	482302		
92583950025	FB-5	EPA 9315	482302		
92583950026	DGWC-9	EPA 9315	482302		
92583950027	DGWC-10	EPA 9315	482302		
92583950028	FB-6	EPA 9315	482302		
92583950029	DUP-5	EPA 9315	482302		
92583950001	DGWC-2	EPA 9320	482061		
92583950002	DGWC-21	EPA 9320	482061		
92583950003	DGWC-22	EPA 9320	482061		
92583950004	DGWC-23	EPA 9320	482061		
92583950005	DGWC-42	EPA 9320	482061		
92583950006	FB-1	EPA 9320	482061		
92583950007	FB-2	EPA 9320	482061		
92583950008	DGWC-20	EPA 9320	482061		
92583950009	DGWC-47	EPA 9320	482061		
92583950010	FB-3	EPA 9320	482061		
92583950011	DGWC-4	EPA 9320	482649		
92583950012	DGWC-5	EPA 9320	482649		
92583950013	DGWC-15	EPA 9320	482649		
92583950014	DGWC-17	EPA 9320	482649		
92583950015	DGWC-48	EPA 9320	482649		
92583950016	EB-4	EPA 9320	482649		
92583950017	FB-4	EPA 9320	482649		
92583950018	DUP-4	EPA 9320	482649		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2, 3/4 RAD

Pace Project No.: 92583950

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583950019	DGWC-8	EPA 9320	482649		
92583950020	DGWC-11	EPA 9320	482649		
92583950021	DGWC-12	EPA 9320	482649		
92583950022	DGWC-13	EPA 9320	482649		
92583950023	DGWC-14	EPA 9320	482649		
92583950024	DGWC-19	EPA 9320	482649		
92583950025	FB-5	EPA 9320	482649		
92583950026	DGWC-9	EPA 9320	482649		
92583950027	DGWC-10	EPA 9320	482649		
92583950028	FB-6	EPA 9320	482649		
92583950029	DUP-5	EPA 9320	482649		
92583950001	DGWC-2	Total Radium Calculation	485106		
92583950002	DGWC-21	Total Radium Calculation	485106		
92583950003	DGWC-22	Total Radium Calculation	485106		
92583950004	DGWC-23	Total Radium Calculation	485106		
92583950005	DGWC-42	Total Radium Calculation	485106		
92583950006	FB-1	Total Radium Calculation	485106		
92583950007	FB-2	Total Radium Calculation	485106		
92583950008	DGWC-20	Total Radium Calculation	485106		
92583950009	DGWC-47	Total Radium Calculation	485106		
92583950010	FB-3	Total Radium Calculation	485106		
92583950011	DGWC-4	Total Radium Calculation	485711		
92583950012	DGWC-5	Total Radium Calculation	485711		
92583950013	DGWC-15	Total Radium Calculation	485711		
92583950014	DGWC-17	Total Radium Calculation	485711		
92583950015	DGWC-48	Total Radium Calculation	485711		
92583950016	EB-4	Total Radium Calculation	485711		
92583950017	FB-4	Total Radium Calculation	485711		
92583950018	DUP-4	Total Radium Calculation	485711		
92583950019	DGWC-8	Total Radium Calculation	485711		
92583950020	DGWC-11	Total Radium Calculation	485711		
92583950021	DGWC-12	Total Radium Calculation	485711		
92583950022	DGWC-13	Total Radium Calculation	485711		
92583950023	DGWC-14	Total Radium Calculation	485711		
92583950024	DGWC-19	Total Radium Calculation	485711		
92583950025	FB-5	Total Radium Calculation	485711		
92583950026	DGWC-9	Total Radium Calculation	485711		
92583950027	DGWC-10	Total Radium Calculation	485711		
92583950028	FB-6	Total Radium Calculation	485711		
92583950029	DUP-5	Total Radium Calculation	485711		

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Document Name  
 Sample Collection Open Receipt (SORM)  
 Document No.  
 1-Link (9-033) Rev 06

Revision Number: November 15, 2016  
 Page 1 of 2  
 Issued to: (Name)  
 Pace Chemical Supply, LLC

Laboratory receiving samples:

#Shawnee  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Client Name:  
 [Redacted]

Client Name:

Project # **W04 : 92583953**

Counter:  Yards  Pits  Dumps  Other   
 Commercial  Public  Other



Container Type:  55 Gallon  20 Gallon  10 Gallon  Other

Date/Time of Sample Collection: 11/11/17

Asking Material:  Public Works  Other  Other  
 Thermometer:  None  Other

Material Type:  Soil  Other

Order Terms: 1-7 Connection Factor: ± 0.1

Temp. Should be above freezing to 60°C  
 Yes  No

Order Terms (Contract #): 3-9

SPCA Regulated Soil:  Yes  No

Do samples originate from a regulated area as defined under Section 101.02 of the RCRA?

Do samples originate from a foreign source (not including U.S. Possessions)?  Yes  No

Comments/Remarks:

Order of Priority	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Sample Name (as in field log)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2
Sample Date/Time (as in field log)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3
Sample Full Address/Trace Requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4
Signature Required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5
Special Containers used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6
Other Comments used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
Comments/Notes?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
Conserved samples (samples held in storage)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9
Sample to be a Match COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10
Include Date/Time/Signature (as in field log)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11
Reference to VOA table (order #)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12
Special Custody (see #10)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13

Comments/Notes/Description: \_\_\_\_\_

Signature of User: \_\_\_\_\_

Project Manager: \_\_\_\_\_

Project Manager SW Review: \_\_\_\_\_

Project Manager SW Review: \_\_\_\_\_





Laboratory receiving samples:

Jacksonville  Eden  Casswood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Information

Client Name  
  
 County:  Forsyth  Guilford  Rock  Alamogordo  Other: \_\_\_\_\_  
 City/Town: \_\_\_\_\_  
 State: \_\_\_\_\_  
 Zip: \_\_\_\_\_  
 Country:  US  Canada  Other: \_\_\_\_\_

Project ID: **WO# : 92583953**  
 P#: NHC Due Date: 02/04/09  
 CLIENT: GA-CA Power

Receiving Method:  Room Temp  Mobile Lab  Drive  Other  
 Receiving Date: \_\_\_\_\_  
 Time of Day: \_\_\_\_\_  
 Type of Use:  Other  Other

Date/Time of Sample (Including Container) 02/03/09

Client Temp: 4.0 Celsius; Fahrenheit: 40.0  
 Cooler Temp Corrected (C): \_\_\_\_\_  
 USDA Regulated Soil?  MRLs applicable

Biological Toxin Present?  Yes  No  
 Temp should be above freezing (32°F)  
 Sample out of temp control Temp in error, no way around  
 Ref input

Do all import origin materials originate from within the United States, CA, VA, or DC? (check appropriate box)  
 Yes  No

Do samples originate from a foreign source or jurisdiction requiring Hazardous Waste Report?  Yes  No  
 Consensus/Discrepancy

Chemical Contaminant Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample stored in the field temp?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Initial field temp analysis (N/A to J)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Field Temp Analysis Temp Reported?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Substrate (Yes/No)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Capable of Contaminant Leach?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Phase Container Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Container Material?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Collected in a way that the field temp is reported?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Temperature used in SOP?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is this Sample Imported from a Foreign Country?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample in a Vial with a Seal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Field Temp Reported?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Do all Sample Containers Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments/Remarks:  Yes  No

Client & Other Agency/Company

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCUR Review: \_\_\_\_\_ Date: \_\_\_\_\_  
 Project Manager SR Review: \_\_\_\_\_ Date: \_\_\_\_\_

**CHAIN OF CUSTODY (Analytical Request Document)**  
 The Chain of Custody and the Document are intended to be used together for all analytical requests.

Case No. \_\_\_\_\_ Date of Report \_\_\_\_\_

Client Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Date of Sample: \_\_\_\_\_  
 Date of Report: \_\_\_\_\_

SAMPLE ID	Description of Sample	Collection Date		Collection Time		Collection Location		Collection Method		Collection Personnel	
		MM	DD	HH	MM	Address	City	State	Zip	Name	Signature
DP001	...	01	15	08	30	...	...	...	...	...	...
DP002	...	01	15	09	15	...	...	...	...	...	...
DP003	...	01	15	10	00	...	...	...	...	...	...

SAMPLE ID	Description of Sample	Collection Date		Collection Time		Collection Location		Collection Method		Collection Personnel	
		MM	DD	HH	MM	Address	City	State	Zip	Name	Signature
DP004	...	01	15	11	30	...	...	...	...	...	...
DP005	...	01	15	12	00	...	...	...	...	...	...
DP006	...	01	15	13	00	...	...	...	...	...	...

1 of 2 pages



*Handwritten logo/signature*

Document Name  
Commission Upon Request (CURP)  
Document No  
PC-2005-001-000001

Printed on Recycled Paper 25 2007  
Page 2 of 2  
Issued Electronically  
Date: 04/14/2007 09:21:00

Laboratory receiving samples

Ashburn  Eden  Greenwood  Huntlands  Raleigh  Mechanicsville  Adams  Kernersville

Site Information  
Address

Client Name  
**GA Power**

Project # **NO# : 92583953**

PR: HNC Due Date: 02/04/02  
CLIENT: GA-GR Power

Counters  Commercial  Other   
 Floor  Wall  Other

Contents (if applicable)  Yes  No  Sealed  Yes  No

Additional Notes (including Comments) *11/17/07*

Painting Materials  Substrates  Primer/Seal  Other

Biological Test(s) Required  
 Yes  No  Other

Pharmaceuticals  Other

Cooler Temp  2-4  3-0  40-1

Temp should be above freezing and:  
 Storage of all temp records shall be in readily accessible format

Cooler Temp Covered  Yes  No  
USDA Registered Soil  N/A, water samples

Let unknown origin items be analyzed prior within the local State EPA or SC (if needed)  
 Yes  No

On completion take back all equipment and materials used  
as well as any and all records  Yes  No  
Comments/Discrepancy:

Chain of Custody (Form #)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Sample Receipt/Label/Chain of Custody	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Short Lead Time Analysis (SLT) by 11	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1
Short Lead Time Analysis (SLT) by 14	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1
Substrate Material	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Exposure Method Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Paint/Coatings Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Comments (if any)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Overhead and/or Sample Take Location	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
Temperature and/or Humidity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1

Additional Test/Time/Analysis Method	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Hours/Date/Time/Day/Week/Year	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10
Top Coat/Undercoat	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11
Top Coat/Undercoat/Sealant	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Comments/Discrepancy/Overcontact SLT Date Required?  Yes  No

Lot ID of your contract

City/State/Country/Zip/Phone

Person contacted \_\_\_\_\_ Date/Time \_\_\_\_\_

Project Manager SCUP Review \_\_\_\_\_ Date \_\_\_\_\_

Project Manager SUT Review \_\_\_\_\_ Date \_\_\_\_\_

**CHAIN OF CUSTODY / Analytical Report Document**  
 This Chain of Custody is a critical component of laboratory results and is generated automatically.

*Signature*

Case No. \_\_\_\_\_  
 Sample ID \_\_\_\_\_

Date: \_\_\_\_\_

Client Name: \_\_\_\_\_  
 Client Address: \_\_\_\_\_  
 Client Phone: \_\_\_\_\_  
 Client Email: \_\_\_\_\_  
 Project Name: \_\_\_\_\_  
 Project Address: \_\_\_\_\_  
 Project Phone: \_\_\_\_\_  
 Project Email: \_\_\_\_\_

Sample ID	Description	Quantity	Unit	Container	Date	Collection		Storage		Analysis		Remarks
						By	When	Where	When	Where	When	
1	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...

For information only



Document Name  
 Sample Capacity - Laser Research (SCUM)  
 Document No  
 F-CAR-02-000-000-00

Document Revised: November 15, 2021  
 Page 1 of 1  
 Drawing Author(s)  
 Project Manager/Designer/Writer

Laboratory Location Samples:

Ashburn  Eden  Greenwood  Manassas  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Conditions  
 Laser Research

Client Name: GA Power

Project # **WO# : 92583953**

Energy  Mechanical   Other: \_\_\_\_\_  
 Fire  UPS  LPS  Other: \_\_\_\_\_  
 Other: \_\_\_\_\_

Part: NPG Due Date: 02/04/23  
 CLIENT: GA-GA Power

Controlled Steel Present?  Yes  No  Seals Present?  Yes  No

DEFINITION: Airflow Limiting Device: 107 1/2" x 1/2"

Flashing Method of  Bubble Wrap  Bubble Paper  Paper  Other \_\_\_\_\_  
 Thickness:  1/8"  3/16"  1/4"  5/16"  3/8"  1/2"  Other \_\_\_\_\_  
 Face of Box  Open  Close  None

Polysorb: Tissue Fragments  
 Yes  No

Cooler Pump 1.0 Correction Factor: +0.2  
 AIRFLOW (CFM) 1.0

Temp should be above limiting to 4°C  
 Samples out of temp at time of testing or in cooling process  
 Not OK

Control System Connected (Y/N)  
 United Regulating Valve  N/A, water service

Do I require any extra equipment for the test such as the United Control Box, or all controls are?  Yes  No

Do I require any extra items (strong source, temp, control, cooling, etc) for the test?  Yes  No  
 Community Responsibility

Check if Control Present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Manually Adjusted in 15 min. of time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Control Panel Name (Manufacturer) for ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Panel Name (Actual Name) (Manufacturer)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sufficient pressure?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Correct Connections Made?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Fluid Connected Used?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Compliance Met?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pressure and Temp. Test Log (Y/N) (Print)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Remote Label (Water COC)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

High Voltage or High Temp. (50 Amps)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10
High Temp. (50 Amps)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11
High Temp. (50 Amps) (Special)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Control NTS/Standard Add to hand's  Yes  No

Control any other equipment (e.g., UPS)  Yes  No

Person CONTACTED \_\_\_\_\_ Date/Time \_\_\_\_\_

Project Manager SCUM: Brian \_\_\_\_\_ Date \_\_\_\_\_

Project Manager SRS Reviewer \_\_\_\_\_ Date \_\_\_\_\_

# CHAIN-OF-CUSTODY / ANALYTICAL REQUEST DOCUMENT

The Office of Laboratory & Identification, Department of Justice

Section 1  
Request Information

**Requesting Agency:**  FBI  State  Local  Other

**Requesting Agency Name:**  FBI Laboratory  State Lab  Local Lab  Other Lab

**Requesting Agency Address:**  400 ...  100 ...  200 ...

**Requesting Agency Contact:**  Mr.  Ms.  Mr.  Ms.  Other

**Requesting Agency Phone:** ( ) - -

**Requesting Agency Fax:** ( ) - -

**Requesting Agency Email:** @ .

**Requesting Agency Website:** .

**Requesting Agency Logo:**

**Requesting Agency Case Number:**  100-...  100-...  100-...

**Requesting Agency Case Title:**  ...  ...  ...

**Requesting Agency Case Description:**  ...  ...  ...

**Requesting Agency Case Location:**  ...  ...  ...

**Requesting Agency Case Date:** / /

**Requesting Agency Case Status:**  Open  Closed  Other

**Requesting Agency Case Priority:**  High  Medium  Low

**Requesting Agency Case Category:**  ...  ...  ...

**Requesting Agency Case Sub-category:**  ...  ...  ...

**Requesting Agency Case Reference:**  ...  ...  ...

**Requesting Agency Case Notes:**  ...  ...  ...

Section 2  
Request Details

**Requesting Agency Case Number:**  100-...  100-...  100-...

**Requesting Agency Case Title:**  ...  ...  ...

**Requesting Agency Case Description:**  ...  ...  ...

**Requesting Agency Case Location:**  ...  ...  ...

**Requesting Agency Case Date:** / /

**Requesting Agency Case Status:**  Open  Closed  Other

**Requesting Agency Case Priority:**  High  Medium  Low

**Requesting Agency Case Category:**  ...  ...  ...

**Requesting Agency Case Sub-category:**  ...  ...  ...

**Requesting Agency Case Reference:**  ...  ...  ...

**Requesting Agency Case Notes:**  ...  ...  ...

**SAMPLE ID**

Case No.  100-...  100-...  100-...

Sub-Case No.  100-...  100-...  100-...

Sample No.  100-...  100-...  100-...

Sample Description  ...  ...  ...

Sample Location  ...  ...  ...

Sample Date  / /  / /  / /

Sample Status  Open  Closed  Other

Sample Priority  High  Medium  Low

Sample Category  ...  ...  ...

Sample Sub-category  ...  ...  ...

Sample Reference  ...  ...  ...

Sample Notes  ...  ...  ...

Sample No.	Sample Description	Sample Location	Sample Date	Sample Status	Sample Priority	Sample Category	Sample Sub-category	Sample Reference	Sample Notes	Requesting Agency		Requesting Agency		Requesting Agency		Requesting Agency		
										Case No.	Sub-Case No.	Sample No.	Sample Description	Sample Location	Sample Date	Sample Status	Sample Priority	Sample Category
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

**Requesting Agency Case Number:**  100-...  100-...  100-...

**Requesting Agency Case Title:**  ...  ...  ...

**Requesting Agency Case Description:**  ...  ...  ...

**Requesting Agency Case Location:**  ...  ...  ...

**Requesting Agency Case Date:** / /

**Requesting Agency Case Status:**  Open  Closed  Other

**Requesting Agency Case Priority:**  High  Medium  Low

**Requesting Agency Case Category:**  ...  ...  ...

**Requesting Agency Case Sub-category:**  ...  ...  ...

**Requesting Agency Case Reference:**  ...  ...  ...

**Requesting Agency Case Notes:**  ...  ...  ...

**Requesting Agency Case Signature:** \_\_\_\_\_

**Requesting Agency Case Date:** / /

**Requesting Agency Case Initials:** \_\_\_\_\_

# Quality Control Sample Performance Assessment

**Project:** [illegible]  
**Location:** [illegible]

**Date:** [illegible]  
**Time:** [illegible]  
**Operator:** [illegible]

**Instrument:** [illegible]  
**Method:** [illegible]

Method Name	Operator	Date	Time	Location	Instrument	Method
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

*Signature of Analyst, Date*  
*11/07/09*

[illegible]  
[illegible]

# Quality Control Sample Performance Assessment

10/20/2015

10/20/2015

10/20/2015

10/20/2015

10/20/2015

10/20/2015

10/20/2015

10/20/2015

10/20/2015

10/20/2015

10/20/2015

10/20/2015

10/20/2015

# Quality Control Sample Performance Assessment

Approved by: \_\_\_\_\_

Annual Report Sample Group for Final Management Review

Date: 14/05/16  
 Author: [Name]  
 Approval: [Name]

Sample Group	Sample Size	Number of Defects	Defect Rate (%)	Defect Categories	Defect Description	Defect Count	Defect Rate (%)	Defect Categories	Defect Description	Defect Count	Defect Rate (%)
Sample Group 1	100	10	10%	Category A	Defect 1	5	5%	Category B	Defect 2	5	5%
Sample Group 2	100	15	15%	Category A	Defect 1	8	8%	Category B	Defect 2	7	7%
Sample Group 3	100	12	12%	Category A	Defect 1	6	6%	Category B	Defect 2	6	6%
Sample Group 4	100	18	18%	Category A	Defect 1	10	10%	Category B	Defect 2	8	8%
Sample Group 5	100	14	14%	Category A	Defect 1	7	7%	Category B	Defect 2	7	7%
Sample Group 6	100	16	16%	Category A	Defect 1	9	9%	Category B	Defect 2	7	7%
Sample Group 7	100	11	11%	Category A	Defect 1	6	6%	Category B	Defect 2	5	5%
Sample Group 8	100	13	13%	Category A	Defect 1	7	7%	Category B	Defect 2	6	6%
Sample Group 9	100	17	17%	Category A	Defect 1	9	9%	Category B	Defect 2	8	8%
Sample Group 10	100	19	19%	Category A	Defect 1	11	11%	Category B	Defect 2	8	8%

Approved by: \_\_\_\_\_

14/05/16

[Signature]

### Quality Control Sample Performance Assessment

Department:                     

NY State Office of General Services  
 Quality Control Sample Performance Assessment  
 Form 100-1 (Rev. 12/2010)

Sample Number:                     

Item	Quantity	Unit Price	Total Price
Item 1	100	1.00	100.00
Item 2	50	2.00	100.00
Item 3	25	4.00	100.00
Item 4	10	10.00	100.00
Item 5	5	20.00	100.00
Item 6	2	50.00	100.00
Item 7	1	100.00	100.00
Item 8	1	100.00	100.00
Item 9	1	100.00	100.00
Item 10	1	100.00	100.00
Item 11	1	100.00	100.00
Item 12	1	100.00	100.00
Item 13	1	100.00	100.00
Item 14	1	100.00	100.00
Item 15	1	100.00	100.00
Item 16	1	100.00	100.00
Item 17	1	100.00	100.00
Item 18	1	100.00	100.00
Item 19	1	100.00	100.00
Item 20	1	100.00	100.00

Item	Quantity	Unit Price	Total Price
Item 1	100	1.00	100.00
Item 2	50	2.00	100.00
Item 3	25	4.00	100.00
Item 4	10	10.00	100.00
Item 5	5	20.00	100.00
Item 6	2	50.00	100.00
Item 7	1	100.00	100.00
Item 8	1	100.00	100.00
Item 9	1	100.00	100.00
Item 10	1	100.00	100.00
Item 11	1	100.00	100.00
Item 12	1	100.00	100.00
Item 13	1	100.00	100.00
Item 14	1	100.00	100.00
Item 15	1	100.00	100.00
Item 16	1	100.00	100.00
Item 17	1	100.00	100.00
Item 18	1	100.00	100.00
Item 19	1	100.00	100.00
Item 20	1	100.00	100.00

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Item 8	1	100.00	100.00
Item 9	1	100.00	100.00
Item 10	1	100.00	100.00
Item 11	1	100.00	100.00
Item 12	1	100.00	100.00
Item 13	1	100.00	100.00
Item 14	1	100.00	100.00
Item 15	1	100.00	100.00
Item 16	1	100.00	100.00
Item 17	1	100.00	100.00
Item 18	1	100.00	100.00
Item 19	1	100.00	100.00
Item 20	1	100.00	100.00

Item	Quantity	Unit Price	Total Price
Item 1	100	1.00	100.00
Item 2	50	2.00	100.00
Item 3	25	4.00	100.00
Item 4	10	10.00	100.00
Item 5	5	20.00	100.00
Item 6	2	50.00	100.00
Item 7	1	100.00	100.00
Item 8	1	100.00	100.00
Item 9	1	100.00	100.00
Item 10	1	100.00	100.00
Item 11	1	100.00	100.00
Item 12	1	100.00	100.00
Item 13	1	100.00	100.00
Item 14	1	100.00	100.00
Item 15	1	100.00	100.00
Item 16	1	100.00	100.00
Item 17	1	100.00	100.00
Item 18	1	100.00	100.00
Item 19	1	100.00	100.00
Item 20	1	100.00	100.00

Item	Quantity	Unit Price	Total Price
Item 1	100	1.00	100.00
Item 2	50	2.00	100.00
Item 3	25	4.00	100.00
Item 4	10	10.00	100.00
Item 5	5	20.00	100.00
Item 6	2	50.00	100.00
Item 7	1	100.00	100.00
Item 8	1	100.00	100.00
Item 9	1	100.00	100.00
Item 10	1	100.00	100.00
Item 11	1	100.00	100.00
Item 12	1	100.00	100.00
Item 13	1	100.00	100.00
Item 14	1	100.00	100.00
Item 15	1	100.00	100.00
Item 16	1	100.00	100.00
Item 17	1	100.00	100.00
Item 18	1	100.00	100.00
Item 19	1	100.00	100.00
Item 20	1	100.00	100.00

*Handwritten signature*





March 03, 2022

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

RE: Project: MCDONOUGH AP-2, 3/4 ASSESS.  
Pace Project No.: 92583955

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between January 21, 2022 and January 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 - Charlotte
- Pace Analytical Services - Peachtree Corners, GA
- Pace Analytical Services - Minneapolis

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

Sincerely,

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

Enclosures

cc: Stephen Benda  
Anna Bottum, ERM  
Andrea Brazell, ERM  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power  
Kristen Jurinko  
J. Shelby Mobley  
Charles Norton, Southern Company  
Ms. Lauren Petty, Southern Company

Dawn Prell, Golder Associates Inc.  
Tim Richards, Golder Associates - Atlanta  
Lacy Smith, ERM  
Caitlin Tillema, ERM  
Christine Weaver, ERM



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.



### CERTIFICATIONS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

#### Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414  
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

- A2LA Certification #: 2926.01\*
- Alabama Certification #: 40770
- Alaska Contaminated Sites Certification #: 17-009\*
- Alaska DW Certification #: MN00064
- Arizona Certification #: AZ0014\*
- Arkansas DW Certification #: MN00064
- Arkansas WW Certification #: 88-0680
- California Certification #: 2929
- Colorado Certification #: MN00064
- Connecticut Certification #: PH-0256
- EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
- Florida Certification #: E87605\*
- Georgia Certification #: 959
- Hawaii Certification #: MN00064
- Idaho Certification #: MN00064
- Illinois Certification #: 200011
- Indiana Certification #: C-MN-01
- Iowa Certification #: 368
- Kansas Certification #: E-10167
- Kentucky DW Certification #: 90062
- Kentucky WW Certification #: 90062
- Louisiana DEQ Certification #: AI-03086\*
- Louisiana DW Certification #: MN00064
- Maine Certification #: MN00064\*
- Maryland Certification #: 322
- Michigan Certification #: 9909
- Minnesota Certification #: 027-053-137\*
- Minnesota Dept of Ag Approval: via MN 027-053-137
- Minnesota Petrofund Registration #: 1240\*
- Mississippi Certification #: MN00064

- Missouri Certification #: 10100
  - Montana Certification #: CERT0092
  - Nebraska Certification #: NE-OS-18-06
  - Nevada Certification #: MN00064
  - New Hampshire Certification #: 2081\*
  - New Jersey Certification #: MN002
  - New York Certification #: 11647\*
  - North Carolina DW Certification #: 27700
  - North Carolina WW Certification #: 530
  - North Dakota Certification #: R-036
  - Ohio DW Certification #: 41244
  - Ohio VAP Certification (1700) #: CL101
  - Ohio VAP Certification (1800) #: CL110\*
  - Oklahoma Certification #: 9507\*
  - Oregon Primary Certification #: MN300001
  - Oregon Secondary Certification #: MN200001\*
  - Pennsylvania Certification #: 68-00563\*
  - Puerto Rico Certification #: MN00064
  - South Carolina Certification #:74003001
  - Tennessee Certification #: TN02818
  - Texas Certification #: T104704192\*
  - Utah Certification #: MN00064\*
  - Vermont Certification #: VT-027053137
  - Virginia Certification #: 460163\*
  - Washington Certification #: C486\*
  - West Virginia DEP Certification #: 382
  - West Virginia DW Certification #: 9952 C
  - Wisconsin Certification #: 999407970
  - Wyoming UST Certification #: via A2LA 2926.01
  - USDA Permit #: P330-19-00208
- \*Please Note: Applicable air certifications are denoted with an asterisk (\*).

#### Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006  
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
South Carolina Laboratory ID: 99006

- South Carolina Certification #: 99006001
- South Carolina Drinking Water Cert. #: 99006003
- Florida/NELAP Certification #: E87627
- Kentucky UST Certification #: 84
- Louisiana DoH Drinking Water #: LA029
- Virginia/VELAP Certification #: 460221

#### Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804  
Florida/NELAP Certification #: E87648  
North Carolina Drinking Water Certification #: 37712  
North Carolina Wastewater Certification #: 40

- South Carolina Laboratory ID: 99030
- South Carolina Certification #: 99030001
- Virginia/VELAP Certification #: 460222

#### Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092  
Florida DOH Certification #: E87315

- Georgia DW Inorganics Certification #: 812
- North Carolina Certification #: 381

### REPORT OF LABORATORY ANALYSIS

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## **CERTIFICATIONS**

Project: MCDONOUGH AP-2, 3/4 ASSESS.  
Pace Project No.: 92583955

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**Pace Analytical Services Peachtree Corners**  
South Carolina Certification #: 98011001

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## **REPORT OF LABORATORY ANALYSIS**

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### SAMPLE SUMMARY

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92583955001	B-63	Water	01/20/22 11:59	01/21/22 15:32
92583955002	B-77	Water	01/20/22 14:12	01/21/22 15:32
92583955003	B-109D	Water	01/20/22 12:58	01/21/22 15:32
92583955004	B-115D	Water	01/20/22 16:32	01/21/22 15:32
92583955005	B-120D	Water	01/20/22 15:43	01/21/22 15:32
92583955006	EB-2	Water	01/20/22 16:55	01/21/22 15:32
92583955007	B-83	Water	01/21/22 12:02	01/21/22 15:32
92583955008	EB-3	Water	01/21/22 12:45	01/21/22 15:32
92583955009	B-104D	Water	01/24/22 12:56	01/25/22 09:04
92583955010	B-107D	Water	01/24/22 09:55	01/25/22 09:04
92583955011	B-108D	Water	01/24/22 13:10	01/25/22 09:04
92583955012	B-111D	Water	01/24/22 11:56	01/25/22 09:04
92583955013	B-66	Water	01/25/22 12:14	01/26/22 08:51
92583955014	B-82	Water	01/25/22 13:43	01/26/22 08:51
92583955015	B-106D	Water	01/25/22 14:33	01/26/22 08:51
92583955016	EB-5	Water	01/25/22 16:20	01/26/22 08:51
92583955017	B-92	Water	01/26/22 12:03	01/27/22 08:50
92583955018	B-93	Water	01/26/22 10:55	01/27/22 08:50
92583955019	B-97	Water	01/26/22 14:22	01/27/22 08:50
92583955020	B-98	Water	01/26/22 13:21	01/27/22 08:50
92583955021	B-101D	Water	01/26/22 13:50	01/27/22 08:50
92583955022	EB-6	Water	01/26/22 15:20	01/27/22 08:50
92583955023	B-56	Water	01/27/22 12:40	01/28/22 15:32
92583955024	B-88	Water	01/27/22 13:15	01/28/22 15:32
92583955025	B-102D	Water	01/27/22 16:25	01/28/22 15:32
92583955026	FB-6	Water	01/27/22 14:00	01/28/22 15:32
92583955027	DUP-6	Water	01/27/22 00:00	01/28/22 15:32

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583955001	B-63	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1, KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
92583955002	B-77	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1, KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583955003	B-109D	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1, KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
92583955004	B-115D	SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1, KH	13	PASI-GA
92583955005	B-120D	EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
92583955006	EB-2	EPA 6020B	CW1, KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583955007	B-83	EPA 6010D	DRB	4	PASI-GA

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583955008	EB-3	EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
92583955009	B-104D	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
92583955010	B-107D	SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
92583955011	B-108D	EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
92583955012	B-111D	EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
92583955013	B-66	EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583955014	B-82	EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583955015	B-106D	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583955016	EB-5	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
92583955017	B-92	EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583955018	B-93	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92583955019	B-97	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4 ASSESS.  
 Pace Project No.: 92583955

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583955020	B-98	SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583955021	B-101D	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
92583955022	EB-6	EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92583955023	B-56	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
92583955024	B-88	EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
92583955025	B-102D	EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH AP-2, 3/4 ASSESS.  
 Pace Project No.: 92583955

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583955026	FB-6	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
92583955027	DUP-6	SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville  
 PASI-C = Pace Analytical Services - Charlotte  
 PASI-GA = Pace Analytical Services - Peachtree Corners, GA  
 PASI-M = Pace Analytical Services - Minneapolis

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-63		Lab ID: 92583955001		Collected: 01/20/22 11:59		Received: 01/21/22 15:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		01/24/22 09:45		
pH	<b>5.46</b>	Std. Units			1		01/24/22 09:45		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>2.8</b>	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 19:04	7440-09-7	
Sodium	<b>11.7</b>	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 19:04	7440-23-5	
Calcium	<b>22.9</b>	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 19:04	7440-70-2	
Magnesium	<b>8.0</b>	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 19:04	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 20:04	7440-36-0	
Arsenic	<b>0.0022J</b>	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:04	7440-38-2	
Barium	<b>0.020</b>	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 20:04	7440-39-3	
Beryllium	<b>0.00034J</b>	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 20:04	7440-41-7	
Boron	<b>0.21</b>	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 20:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 20:04	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:04	7440-47-3	
Cobalt	<b>0.039</b>	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 20:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 20:04	7439-92-1	
Lithium	<b>0.0062J</b>	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 20:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 20:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 20:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/28/22 09:57	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 13:33	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>177</b>	mg/L	10.0	10.0	1		01/26/22 17:45		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	<b>50.8</b>	mg/L	5.0	1.8	1		01/25/22 17:51		
Alkalinity,Bicarbonate (CaCO3)	<b>50.8</b>	mg/L	5.0	1.8	1		01/25/22 17:51		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/25/22 17:51		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>15.0</b>	mg/L	1.0	0.60	1		01/25/22 18:14	16887-00-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-63 Lab ID: 92583955001 Collected: 01/20/22 11:59 Received: 01/21/22 15:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	0.12	mg/L	0.10	0.050	1		01/25/22 18:14	16984-48-8	
Sulfate	49.4	mg/L	1.0	0.50	1		01/25/22 18:14	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-77**      **Lab ID: 92583955002**      Collected: 01/20/22 14:12      Received: 01/21/22 15:32      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/24/22 09:46		
pH	<b>6.48</b>	Std. Units			1		01/24/22 09:46		

**6010D ATL ICP**

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

Potassium	<b>2.4</b>	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 19:09	7440-09-7	
Sodium	<b>7.8</b>	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 19:09	7440-23-5	
Calcium	<b>18.6</b>	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 19:09	7440-70-2	
Magnesium	<b>6.2</b>	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 19:09	7439-95-4	

**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 20:10	7440-36-0	
Arsenic	<b>0.0030J</b>	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:10	7440-38-2	
Barium	<b>0.13</b>	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 20:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 20:10	7440-41-7	
Boron	<b>0.28</b>	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 20:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 20:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 20:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 20:10	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 20:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 20:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 20:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/28/22 10:03	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 13:43	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>129</b>	mg/L	10.0	10.0	1		01/26/22 17:45		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>158</b>	mg/L	5.0	1.8	1		01/25/22 17:55		
Alkalinity,Bicarbonate (CaCO3)	<b>158</b>	mg/L	5.0	1.8	1		01/25/22 17:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/25/22 17:55		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>5.0</b>	mg/L	1.0	0.60	1		01/25/22 18:28	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-77 Lab ID: 92583955002 Collected: 01/20/22 14:12 Received: 01/21/22 15:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 18:28	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/25/22 18:28	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-109D**      **Lab ID: 92583955003**      Collected: 01/20/22 12:58      Received: 01/21/22 15:32      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/24/22 09:46		
pH	<b>6.43</b>	Std. Units			1		01/24/22 09:46		

**6010D ATL ICP**

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

Potassium	<b>7.4</b>	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 19:13	7440-09-7	
Sodium	<b>21.1</b>	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 19:13	7440-23-5	
Calcium	<b>40.0</b>	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 19:13	7440-70-2	
Magnesium	<b>11.3</b>	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 19:13	7439-95-4	

**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 20:16	7440-36-0	
Arsenic	<b>0.0026J</b>	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:16	7440-38-2	
Barium	<b>0.047</b>	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 20:16	7440-39-3	
Beryllium	<b>0.000071J</b>	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 20:16	7440-41-7	
Boron	<b>0.60</b>	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 20:16	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 20:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 20:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 20:16	7439-92-1	
Lithium	<b>0.014J</b>	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 20:16	7439-93-2	
Molybdenum	<b>0.0012J</b>	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 20:16	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 20:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/28/22 10:09	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 13:46	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>309</b>	mg/L	10.0	10.0	1		01/26/22 17:45		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>99.6</b>	mg/L	5.0	1.8	1		01/25/22 17:59		
Alkalinity,Bicarbonate (CaCO3)	<b>99.6</b>	mg/L	5.0	1.8	1		01/25/22 17:59		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/25/22 17:59		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>3.7</b>	mg/L	1.0	0.60	1		01/25/22 19:24	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-109D**      **Lab ID: 92583955003**      Collected: 01/20/22 12:58      Received: 01/21/22 15:32      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
 Pace Analytical Services - Asheville

Fluoride	<b>0.11</b>	mg/L	0.10	0.050	1		01/25/22 19:24	16984-48-8	
Sulfate	<b>93.1</b>	mg/L	2.0	1.0	2		01/26/22 10:18	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-115D**      **Lab ID: 92583955004**      Collected: 01/20/22 16:32      Received: 01/21/22 15:32      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/24/22 09:46		
pH	<b>5.77</b>	Std. Units			1		01/24/22 09:46		

**6010D ATL ICP**

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

Potassium	<b>12.2</b>	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 19:18	7440-09-7	
Sodium	<b>26.7</b>	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 19:18	7440-23-5	
Calcium	<b>83.6</b>	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 19:18	7440-70-2	
Magnesium	<b>19.5</b>	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 19:18	7439-95-4	

**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 20:22	7440-36-0	
Arsenic	<b>0.0027J</b>	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:22	7440-38-2	
Barium	<b>0.015</b>	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 20:22	7440-39-3	
Beryllium	<b>0.011</b>	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 20:22	7440-41-7	
Boron	<b>0.55</b>	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 20:22	7440-42-8	
Cadmium	<b>0.00029J</b>	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 20:22	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:22	7440-47-3	
Cobalt	<b>0.24</b>	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 20:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 20:22	7439-92-1	
Lithium	<b>0.081</b>	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 20:22	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 20:22	7439-98-7	
Selenium	<b>0.0022J</b>	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 20:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/28/22 10:15	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 13:48	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>553</b>	mg/L	10.0	10.0	1		01/26/22 17:45		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>12.0</b>	mg/L	5.0	1.8	1		01/25/22 21:14		M1
Alkalinity,Bicarbonate (CaCO3)	<b>12.0</b>	mg/L	5.0	1.8	1		01/25/22 21:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/25/22 21:14		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>15.8</b>	mg/L	1.0	0.60	1		01/25/22 19:38	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-115D Lab ID: 92583955004 Collected: 01/20/22 16:32 Received: 01/21/22 15:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	<b>0.59</b>	mg/L	0.10	0.050	1		01/25/22 19:38	16984-48-8	
Sulfate	<b>293</b>	mg/L	7.0	3.5	7		01/26/22 10:32	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-120D**      **Lab ID: 92583955005**      Collected: 01/20/22 15:43      Received: 01/21/22 15:32      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/24/22 09:46		
pH	<b>5.28</b>	Std. Units			1		01/24/22 09:46		

**6010D ATL ICP**

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

Potassium	<b>9.8</b>	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 19:23	7440-09-7	
Sodium	<b>35.7</b>	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 19:23	7440-23-5	
Calcium	<b>158</b>	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 19:23	7440-70-2	
Magnesium	<b>34.3</b>	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 19:23	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	01/25/22 09:47	01/26/22 20:28	7440-36-0	
Arsenic	<b>0.0016J</b>	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:28	7440-38-2	
Barium	<b>0.025</b>	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 20:28	7440-39-3	
Beryllium	<b>0.0011</b>	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 20:28	7440-41-7	
Boron	<b>1.9</b>	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 20:28	7440-42-8	
Cadmium	<b>0.00098</b>	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 20:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:28	7440-47-3	
Cobalt	<b>0.0045J</b>	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 20:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 20:28	7439-92-1	
Lithium	<b>0.079</b>	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 20:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 20:28	7439-98-7	
Selenium	<b>0.0021J</b>	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 20:28	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/28/22 10:21	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	02/08/22 08:20	02/08/22 13:51	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>816</b>	mg/L	20.0	20.0	1		01/26/22 17:46		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>35.8</b>	mg/L	5.0	1.8	1		01/25/22 21:24		
Alkalinity,Bicarbonate (CaCO3)	<b>35.8</b>	mg/L	5.0	1.8	1		01/25/22 21:24		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/25/22 21:24		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>6.0</b>	mg/L	1.0	0.60	1		01/25/22 19:52	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-120D Lab ID: 92583955005 Collected: 01/20/22 15:43 Received: 01/21/22 15:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 19:52	16984-48-8	
Sulfate	475	mg/L	11.0	5.5	11		01/26/22 10:45	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.  
 Pace Project No.: 92583955

**Sample: EB-2**      **Lab ID: 92583955006**      Collected: 01/20/22 16:55      Received: 01/21/22 15:32      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 19:28	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 19:28	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 19:28	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 19:28	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 20:46	7440-36-0	
Arsenic	<b>0.0014J</b>	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:46	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 20:46	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 20:46	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 20:46	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 20:46	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 20:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 20:46	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 20:46	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 20:46	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 20:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/26/22 20:46	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 13:59	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>15.0</b>	mg/L	10.0	10.0	1		01/26/22 17:46		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		01/25/22 21:28		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/25/22 21:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/25/22 21:28		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		01/25/22 20:05	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 20:05	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/25/22 20:05	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-83**      **Lab ID: 92583955007**      Collected: 01/21/22 12:02      Received: 01/21/22 15:32      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/24/22 09:46		
pH	<b>5.56</b>	Std. Units			1		01/24/22 09:46		

**6010D ATL ICP**

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

Potassium	<b>2.5</b>	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 19:33	7440-09-7	
Sodium	<b>12.1</b>	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 19:33	7440-23-5	
Calcium	<b>40.8</b>	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 19:33	7440-70-2	
Magnesium	<b>11.1</b>	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 19:33	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	01/25/22 09:47	01/26/22 20:52	7440-36-0	
Arsenic	<b>0.0014J</b>	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:52	7440-38-2	
Barium	<b>0.024</b>	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 20:52	7440-39-3	
Beryllium	<b>0.00039J</b>	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 20:52	7440-41-7	
Boron	<b>0.32</b>	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 20:52	7440-42-8	
Cadmium	<b>0.00030J</b>	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 20:52	7440-43-9	
Chromium	<b>0.0034J</b>	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 20:52	7440-47-3	
Cobalt	<b>0.011</b>	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 20:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 20:52	7439-92-1	
Lithium	<b>0.0022J</b>	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 20:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 20:52	7439-98-7	
Selenium	<b>0.027</b>	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 20:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/26/22 20:52	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 14:02	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>236</b>	mg/L	10.0	10.0	1		01/28/22 10:30		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO <sub>3</sub>	<b>38.7</b>	mg/L	5.0	1.8	1		01/25/22 21:31		
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	<b>38.7</b>	mg/L	5.0	1.8	1		01/25/22 21:31		
Alkalinity,Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	1.8	1		01/25/22 21:31		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>2.4</b>	mg/L	1.0	0.60	1		01/25/22 20:19	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-83**      **Lab ID: 92583955007**      Collected: 01/21/22 12:02      Received: 01/21/22 15:32      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 20:19	16984-48-8	
Sulfate	<b>106</b>	mg/L	2.0	1.0	2		01/26/22 11:00	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.  
 Pace Project No.: 92583955

**Sample: EB-3**      **Lab ID: 92583955008**      Collected: 01/21/22 12:45      Received: 01/21/22 15:32      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	01/25/22 09:12	01/25/22 19:52	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	01/25/22 09:12	01/25/22 19:52	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	01/25/22 09:12	01/25/22 19:52	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	01/25/22 09:12	01/25/22 19:52	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/25/22 09:47	01/26/22 21:04	7440-36-0	
Arsenic	<b>0.0016J</b>	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 21:04	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	01/25/22 09:47	01/26/22 21:04	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	01/25/22 09:47	01/26/22 21:04	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	01/25/22 09:47	01/26/22 21:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:47	01/26/22 21:04	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:47	01/26/22 21:04	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:47	01/26/22 21:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:47	01/26/22 21:04	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	01/25/22 09:47	01/26/22 21:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:47	01/26/22 21:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:47	01/26/22 21:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:47	01/26/22 21:04	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 14:04	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>15.0</b>	mg/L	10.0	10.0	1		01/28/22 10:30		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		01/25/22 21:35		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/25/22 21:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/25/22 21:35		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		01/25/22 20:33	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/25/22 20:33	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/25/22 20:33	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.  
 Pace Project No.: 92583955

**Sample: B-104D**      **Lab ID: 92583955009**      Collected: 01/24/22 12:56      Received: 01/25/22 09:04      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**  
 Analytical Method:  
 Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>						01/25/22 11:22		
pH	<b>6.48</b>	Std. Units					01/25/22 11:22		

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

Potassium	<b>8.7</b>	mg/L	0.20	0.15	1	02/02/22 14:04	02/03/22 22:59	7440-09-7	M1
Calcium	<b>163</b>	mg/L	1.0	0.12	1	02/02/22 14:04	02/03/22 22:59	7440-70-2	M1
Magnesium	<b>27.8</b>	mg/L	0.050	0.012	1	02/02/22 14:04	02/03/22 22:59	7439-95-4	M1
Sodium	<b>19.7</b>	mg/L	1.0	0.58	1	02/02/22 14:04	02/04/22 12:57	7440-23-5	M1

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

Antimony	<b>0.0010J</b>	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 16:45	7440-36-0	
Arsenic	<b>0.0035J</b>	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 16:45	7440-38-2	
Barium	<b>0.024</b>	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 16:45	7440-39-3	
Beryllium	<b>0.0012</b>	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 16:45	7440-41-7	
Boron	<b>0.24</b>	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 16:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 16:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 16:45	7440-47-3	
Cobalt	<b>0.10</b>	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 16:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 16:45	7439-92-1	
Lithium	<b>0.036</b>	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 16:45	7439-93-2	
Molybdenum	<b>0.00083J</b>	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 16:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 16:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 16:45	7440-28-0	

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

Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 14:07	7439-97-6	
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**2540C Total Dissolved Solids**  
 Analytical Method: SM 2540C-2015  
 Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>806</b>	mg/L	20.0	20.0	1		01/28/22 10:32		
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**2320B Alkalinity**  
 Analytical Method: SM 2320B  
 Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>85.1</b>	mg/L	5.0	1.8	1		01/27/22 16:23		
Alkalinity,Bicarbonate (CaCO3)	<b>85.1</b>	mg/L	5.0	1.8	1		01/27/22 16:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/27/22 16:23		

**300.0 IC Anions 28 Days**  
 Analytical Method: EPA 300.0 Rev 2.1 1993  
 Pace Analytical Services - Asheville

Chloride	<b>7.8</b>	mg/L	1.0	0.60	1		01/26/22 22:30	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

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**Sample: B-104D**      **Lab ID: 92583955009**      Collected: 01/24/22 12:56      Received: 01/25/22 09:04      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	<b>0.28</b>	mg/L	0.10	0.050	1		01/26/22 22:30	16984-48-8	
Sulfate	<b>423</b>	mg/L	10.0	5.0	10		01/27/22 07:47	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-107D**      **Lab ID: 92583955010**      Collected: 01/24/22 09:55      Received: 01/25/22 09:04      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/25/22 11:22		
pH	<b>6.05</b>	Std. Units			1		01/25/22 11:22		

**6010D ATL ICP**

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

Potassium	<b>6.3</b>	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 17:51	7440-09-7	M1
Sodium	<b>20.6</b>	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 17:51	7440-23-5	M1
Calcium	<b>89.9</b>	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 17:51	7440-70-2	M1
Magnesium	<b>32.3</b>	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 17:51	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	02/03/22 10:35	02/03/22 16:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 16:51	7440-38-2	
Barium	<b>0.092</b>	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 16:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 16:51	7440-41-7	
Boron	<b>12.3</b>	mg/L	0.40	0.086	10	02/03/22 10:35	02/04/22 13:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 16:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 16:51	7440-47-3	
Cobalt	<b>0.00088J</b>	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 16:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 16:51	7439-92-1	
Lithium	<b>0.015J</b>	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 16:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 16:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 16:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 16:51	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 14:09	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>552</b>	mg/L	20.0	20.0	1		01/28/22 10:32		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO <sub>3</sub>	<b>31.3</b>	mg/L	5.0	1.8	1		01/27/22 16:26		
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	<b>31.3</b>	mg/L	5.0	1.8	1		01/27/22 16:26		
Alkalinity,Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	1.8	1		01/27/22 16:26		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>12.8</b>	mg/L	1.0	0.60	1		01/26/22 22:44	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-107D Lab ID: 92583955010 Collected: 01/24/22 09:55 Received: 01/25/22 09:04 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		01/26/22 22:44	16984-48-8	
Sulfate	276	mg/L	6.0	3.0	6		01/27/22 08:01	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-108D**      **Lab ID: 92583955011**      Collected: 01/24/22 13:10      Received: 01/25/22 09:04      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/25/22 11:22		
pH	<b>5.99</b>	Std. Units			1		01/25/22 11:22		

**6010D ATL ICP**

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

Potassium	<b>5.4</b>	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 18:20	7440-09-7	
Sodium	<b>18.2</b>	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 18:20	7440-23-5	
Calcium	<b>88.2</b>	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 18:20	7440-70-2	
Magnesium	<b>34.9</b>	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 18:20	7439-95-4	

**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 16:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 16:57	7440-38-2	
Barium	<b>0.056</b>	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 16:57	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 16:57	7440-41-7	
Boron	<b>6.8</b>	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 16:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 16:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 16:57	7440-47-3	
Cobalt	<b>0.00061J</b>	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 16:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 16:57	7439-92-1	
Lithium	<b>0.014J</b>	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 16:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 16:57	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 16:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 16:57	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 14:12	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>502</b>	mg/L	20.0	20.0	1		01/31/22 19:09		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>26.8</b>	mg/L	5.0	1.8	1		01/27/22 15:41		
Alkalinity,Bicarbonate (CaCO3)	<b>26.8</b>	mg/L	5.0	1.8	1		01/27/22 15:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/27/22 15:41		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>32.9</b>	mg/L	1.0	0.60	1		01/26/22 23:26	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-108D**      **Lab ID: 92583955011**      Collected: 01/24/22 13:10      Received: 01/25/22 09:04      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		01/26/22 23:26	16984-48-8	
Sulfate	<b>277</b>	mg/L	6.0	3.0	6		01/27/22 08:15	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.  
 Pace Project No.: 92583955

**Sample: B-111D**      **Lab ID: 92583955012**      Collected: 01/24/22 11:56      Received: 01/25/22 09:04      Matrix: Water

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

Analytical Method:  
 Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/25/22 11:22		
pH	<b>7.11</b>	Std. Units			1		01/25/22 11:22		

**6010D ATL ICP**

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

Potassium	<b>16.6</b>	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 18:25	7440-09-7	
Sodium	<b>57.0</b>	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 18:25	7440-23-5	
Calcium	<b>107</b>	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 18:25	7440-70-2	
Magnesium	<b>11.1</b>	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 18:25	7439-95-4	

**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 17:03	7440-36-0	
Arsenic	<b>0.0022J</b>	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 17:03	7440-38-2	
Barium	<b>0.038</b>	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 17:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 17:03	7440-41-7	
Boron	<b>0.49</b>	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 17:03	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 17:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 17:03	7440-47-3	
Cobalt	<b>0.00041J</b>	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 17:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 17:03	7439-92-1	
Lithium	<b>0.026J</b>	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 17:03	7439-93-2	
Molybdenum	<b>0.0052J</b>	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 17:03	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 17:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 17:03	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 14:15	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>566</b>	mg/L	20.0	20.0	1		01/31/22 19:09		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
 Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>131</b>	mg/L	5.0	1.8	1		01/27/22 15:55		
Alkalinity,Bicarbonate (CaCO3)	<b>131</b>	mg/L	5.0	1.8	1		01/27/22 15:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/27/22 15:55		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
 Pace Analytical Services - Asheville

Chloride	<b>30.6</b>	mg/L	1.0	0.60	1		01/26/22 23:40	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

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**Sample: B-111D**      **Lab ID: 92583955012**      Collected: 01/24/22 11:56      Received: 01/25/22 09:04      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
 Pace Analytical Services - Asheville

Fluoride	<b>0.38</b>	mg/L	0.10	0.050	1		01/26/22 23:40	16984-48-8	
Sulfate	<b>238</b>	mg/L	5.0	2.5	5		01/27/22 08:29	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-66**      **Lab ID: 92583955013**      Collected: 01/25/22 12:14      Received: 01/26/22 08:51      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/26/22 10:03		
pH	<b>6.35</b>	Std. Units			1		01/26/22 10:03		

**6010D ATL ICP**

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

Potassium	<b>5.3</b>	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 18:29	7440-09-7	
Sodium	<b>35.1</b>	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 18:29	7440-23-5	
Calcium	<b>54.9</b>	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 18:29	7440-70-2	
Magnesium	<b>40.9</b>	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 18:29	7439-95-4	

**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 10:35	02/03/22 20:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 20:01	7440-38-2	
Barium	<b>0.021</b>	mg/L	0.0050	0.00067	1	02/03/22 10:35	02/03/22 20:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 10:35	02/03/22 20:01	7440-41-7	
Boron	<b>2.3</b>	mg/L	0.040	0.0086	1	02/03/22 10:35	02/03/22 20:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 10:35	02/03/22 20:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 10:35	02/03/22 20:01	7440-47-3	
Cobalt	<b>0.013</b>	mg/L	0.0050	0.00039	1	02/03/22 10:35	02/03/22 20:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 10:35	02/03/22 20:01	7439-92-1	
Lithium	<b>0.00073J</b>	mg/L	0.030	0.00073	1	02/03/22 10:35	02/03/22 20:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 10:35	02/03/22 20:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 10:35	02/03/22 20:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 10:35	02/03/22 20:01	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	02/08/22 08:20	02/08/22 14:17	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>482</b>	mg/L	20.0	20.0	1		02/01/22 13:52		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>96.3</b>	mg/L	5.0	1.8	1		02/02/22 15:24		
Alkalinity,Bicarbonate (CaCO3)	<b>96.3</b>	mg/L	5.0	1.8	1		02/02/22 15:24		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 15:24		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>8.7</b>	mg/L	1.0	0.60	1		01/28/22 06:35	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-66**      **Lab ID: 92583955013**      Collected: 01/25/22 12:14      Received: 01/26/22 08:51      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	<b>0.12</b>	mg/L	0.10	0.050	1		01/28/22 06:35	16984-48-8	
Sulfate	<b>240</b>	mg/L	6.0	3.0	6		01/28/22 12:53	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-82**      **Lab ID: 92583955014**      Collected: 01/25/22 13:43      Received: 01/26/22 08:51      Matrix: Water

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

Analytical Method:  
 Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/26/22 10:03		
pH	<b>5.07</b>	Std. Units			1		01/26/22 10:03		

**6010D ATL ICP**

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

Potassium	<b>5.2</b>	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 18:34	7440-09-7	
Sodium	<b>18.0</b>	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 18:34	7440-23-5	
Calcium	<b>36.4</b>	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 18:34	7440-70-2	
Magnesium	<b>80.4</b>	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 18:34	7439-95-4	

**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 20:37	7440-36-0	
Arsenic	<b>0.0030J</b>	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 20:37	7440-38-2	
Barium	<b>0.026</b>	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 20:37	7440-39-3	
Beryllium	<b>0.0021</b>	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 20:37	7440-41-7	
Boron	<b>0.70</b>	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 20:37	7440-42-8	
Cadmium	<b>0.00072</b>	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 20:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 20:37	7440-47-3	
Cobalt	<b>0.0039J</b>	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 20:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 20:37	7439-92-1	
Lithium	<b>0.00082J</b>	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 20:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 20:37	7439-98-7	
Selenium	<b>0.0020J</b>	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 20:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 20:37	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 14:20	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>668</b>	mg/L	20.0	20.0	1		02/01/22 13:52		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
 Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>9.1</b>	mg/L	5.0	1.8	1		02/02/22 18:04		
Alkalinity,Bicarbonate (CaCO3)	<b>9.1</b>	mg/L	5.0	1.8	1		02/02/22 18:04		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 18:04		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
 Pace Analytical Services - Asheville

Chloride	<b>9.9</b>	mg/L	1.0	0.60	1		01/28/22 06:49	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-82 Lab ID: 92583955014 Collected: 01/25/22 13:43 Received: 01/26/22 08:51 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		01/28/22 06:49	16984-48-8	
Sulfate	363	mg/L	8.0	4.0	8		01/28/22 13:34	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-106D**      **Lab ID: 92583955015**      Collected: 01/25/22 14:33      Received: 01/26/22 08:51      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/26/22 10:03		
pH	<b>5.84</b>	Std. Units			1		01/26/22 10:03		

**6010D ATL ICP**

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

Potassium	<b>4.0</b>	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 18:39	7440-09-7	
Sodium	<b>15.8</b>	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 18:39	7440-23-5	
Calcium	<b>40.0</b>	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 18:39	7440-70-2	
Magnesium	<b>18.0</b>	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 18:39	7439-95-4	

**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 20:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 20:43	7440-38-2	
Barium	<b>0.020</b>	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 20:43	7440-39-3	
Beryllium	<b>0.00011J</b>	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 20:43	7440-41-7	
Boron	<b>1.2</b>	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 20:43	7440-42-8	
Cadmium	<b>0.00012J</b>	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 20:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 20:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 20:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 20:43	7439-92-1	
Lithium	<b>0.0055J</b>	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 20:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 20:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 20:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 20:43	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 14:23	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>295</b>	mg/L	10.0	10.0	1		02/01/22 13:53		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>25.5</b>	mg/L	5.0	1.8	1		02/02/22 15:33		
Alkalinity,Bicarbonate (CaCO3)	<b>25.5</b>	mg/L	5.0	1.8	1		02/02/22 15:33		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 15:33		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>7.4</b>	mg/L	1.0	0.60	1		01/28/22 07:02	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-106D**      **Lab ID: 92583955015**      Collected: 01/25/22 14:33      Received: 01/26/22 08:51      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		01/28/22 07:02	16984-48-8	
Sulfate	<b>132</b>	mg/L	3.0	1.5	3		01/28/22 13:49	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: EB-5**      **Lab ID: 92583955016**      Collected: 01/25/22 16:20      Received: 01/26/22 08:51      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 18:44	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 18:44	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 18:44	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 18:44	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 20:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 20:49	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 20:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 20:49	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 20:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 20:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 20:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 20:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 20:49	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 20:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 20:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 20:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 20:49	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 08:20	02/08/22 14:30	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/01/22 13:53		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		02/02/22 15:45		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 15:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 15:45		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		01/28/22 07:16	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/28/22 07:16	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/28/22 07:16	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-92**      **Lab ID: 92583955017**      Collected: 01/26/22 12:03      Received: 01/27/22 08:50      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/27/22 10:31		
pH	<b>4.50</b>	Std. Units			1		01/27/22 10:31		

**6010D ATL ICP**

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

Potassium	<b>6.1</b>	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 18:58	7440-09-7	
Sodium	<b>18.7</b>	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 18:58	7440-23-5	
Calcium	<b>96.0</b>	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 18:58	7440-70-2	
Magnesium	<b>15.5</b>	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 18:58	7439-95-4	

**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 22:30	7440-36-0	
Arsenic	<b>0.0015J</b>	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:30	7440-38-2	
Barium	<b>0.016</b>	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 22:30	7440-39-3	
Beryllium	<b>0.018</b>	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 22:30	7440-41-7	
Boron	<b>2.7</b>	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 22:30	7440-42-8	
Cadmium	<b>0.0010</b>	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 22:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:30	7440-47-3	
Cobalt	<b>0.071</b>	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 22:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 22:30	7439-92-1	
Lithium	<b>0.015J</b>	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 22:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 22:30	7439-98-7	
Selenium	<b>0.0039J</b>	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 22:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 22:30	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	02/08/22 10:20	02/08/22 14:50	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>572</b>	mg/L	10.0	10.0	1		02/01/22 14:09		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		02/03/22 18:18		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/03/22 18:18		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/03/22 18:18		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>9.4</b>	mg/L	1.0	0.60	1		01/29/22 17:09	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-92**      **Lab ID: 92583955017**      Collected: 01/26/22 12:03      Received: 01/27/22 08:50      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	<b>0.30</b>	mg/L	0.10	0.050	1		01/29/22 17:09	16984-48-8	
Sulfate	<b>305</b>	mg/L	7.0	3.5	7		01/30/22 03:49	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-93**      **Lab ID: 92583955018**      Collected: 01/26/22 10:55      Received: 01/27/22 08:50      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/27/22 10:32		
pH	<b>4.74</b>	Std. Units			1		01/27/22 10:32		

**6010D ATL ICP**

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

Potassium	<b>7.5</b>	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 19:12	7440-09-7	
Sodium	<b>25.4</b>	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 19:12	7440-23-5	
Calcium	<b>141</b>	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 19:12	7440-70-2	
Magnesium	<b>23.6</b>	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 19:12	7439-95-4	

**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 22:48	7440-36-0	
Arsenic	<b>0.0020J</b>	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:48	7440-38-2	
Barium	<b>0.021</b>	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 22:48	7440-39-3	
Beryllium	<b>0.017</b>	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 22:48	7440-41-7	
Boron	<b>3.6</b>	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 22:48	7440-42-8	
Cadmium	<b>0.00079</b>	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 22:48	7440-43-9	
Chromium	<b>0.0011J</b>	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:48	7440-47-3	
Cobalt	<b>0.064</b>	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 22:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 22:48	7439-92-1	
Lithium	<b>0.013J</b>	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 22:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 22:48	7439-98-7	
Selenium	<b>0.0063</b>	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 22:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 22:48	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 10:20	02/08/22 15:06	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>766</b>	mg/L	20.0	20.0	1		02/01/22 14:09		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO <sub>3</sub>	<b>4.0J</b>	mg/L	5.0	1.8	1		02/03/22 18:21		
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	<b>4.0J</b>	mg/L	5.0	1.8	1		02/03/22 18:21		
Alkalinity,Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	1.8	1		02/03/22 18:21		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>14.7</b>	mg/L	1.0	0.60	1		01/29/22 17:23	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-93**      **Lab ID: 92583955018**      Collected: 01/26/22 10:55      Received: 01/27/22 08:50      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	<b>0.41</b>	mg/L	0.10	0.050	1		01/29/22 17:23	16984-48-8	
Sulfate	<b>477</b>	mg/L	11.0	5.5	11		01/30/22 04:03	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-97**      **Lab ID: 92583955019**      Collected: 01/26/22 14:22      Received: 01/27/22 08:50      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/27/22 10:32		
pH	<b>6.52</b>	Std. Units			1		01/27/22 10:32		

**6010D ATL ICP**

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

Potassium	<b>5.5</b>	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 19:17	7440-09-7	
Sodium	<b>38.8</b>	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 19:17	7440-23-5	
Calcium	<b>198</b>	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 19:17	7440-70-2	
Magnesium	<b>32.6</b>	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 19:17	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	02/03/22 13:00	02/03/22 22:54	7440-36-0	
Arsenic	<b>0.0014J</b>	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:54	7440-38-2	
Barium	<b>0.020</b>	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 22:54	7440-39-3	
Beryllium	<b>0.0017</b>	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 22:54	7440-41-7	
Boron	<b>3.7</b>	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 22:54	7440-42-8	
Cadmium	<b>0.00055</b>	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 22:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 22:54	7440-47-3	
Cobalt	<b>0.0030J</b>	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 22:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 22:54	7439-92-1	
Lithium	<b>0.0047J</b>	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 22:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 22:54	7439-98-7	
Selenium	<b>0.0015J</b>	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 22:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 22:54	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 10:20	02/08/22 15:09	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>930</b>	mg/L	20.0	20.0	1		02/01/22 14:09		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>53.0</b>	mg/L	5.0	1.8	1		02/03/22 16:16		
Alkalinity,Bicarbonate (CaCO3)	<b>53.0</b>	mg/L	5.0	1.8	1		02/03/22 16:16		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/03/22 16:16		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>19.8</b>	mg/L	1.0	0.60	1		01/29/22 18:05	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-97**      **Lab ID: 92583955019**      Collected: 01/26/22 14:22      Received: 01/27/22 08:50      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.088J</b>	mg/L	0.10	0.050	1		01/29/22 18:05	16984-48-8	
Sulfate	<b>531</b>	mg/L	12.0	6.0	12		01/30/22 04:17	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-98	Lab ID: 92583955020	Collected: 01/26/22 13:21	Received: 01/27/22 08:50	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		01/27/22 10:32		
pH	<b>6.52</b>	Std. Units			1		01/27/22 10:32		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>5.9</b>	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 19:22	7440-09-7	
Sodium	<b>4.8</b>	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 19:22	7440-23-5	
Calcium	<b>31.9</b>	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 19:22	7440-70-2	
Magnesium	<b>2.2</b>	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 19:22	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 23:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 23:00	7440-38-2	
Barium	<b>0.035</b>	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 23:00	7440-39-3	
Beryllium	<b>0.000068J</b>	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 23:00	7440-41-7	
Boron	<b>0.12</b>	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 23:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 23:00	7440-43-9	
Chromium	<b>0.0013J</b>	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 23:00	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 23:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 23:00	7439-92-1	
Lithium	<b>0.0013J</b>	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 23:00	7439-93-2	
Molybdenum	<b>0.0015J</b>	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 23:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 23:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 23:00	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 10:20	02/08/22 15:11	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>139</b>	mg/L	10.0	10.0	1		02/01/22 14:09		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	<b>70.2</b>	mg/L	5.0	1.8	1		02/02/22 22:54		
Alkalinity,Bicarbonate (CaCO3)	<b>70.2</b>	mg/L	5.0	1.8	1		02/02/22 22:54		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 22:54		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>4.9</b>	mg/L	1.0	0.60	1		01/29/22 18:19	16887-00-6	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-98 Lab ID: 92583955020 Collected: 01/26/22 13:21 Received: 01/27/22 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	0.13	mg/L	0.10	0.050	1		01/29/22 18:19	16984-48-8	
Sulfate	18.4	mg/L	1.0	0.50	1		01/29/22 18:19	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-101D**      **Lab ID: 92583955021**      Collected: 01/26/22 13:50      Received: 01/27/22 08:50      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/27/22 10:33		
pH	<b>5.87</b>	Std. Units			1		01/27/22 10:33		

**6010D ATL ICP**

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

Potassium	<b>5.9</b>	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 19:27	7440-09-7	
Sodium	<b>19.3</b>	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 19:27	7440-23-5	
Calcium	<b>49.7</b>	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 19:27	7440-70-2	
Magnesium	<b>16.4</b>	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 19:27	7439-95-4	

**6020 MET ICPMS**

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

Antimony	<b>0.00082J</b>	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 23:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 23:06	7440-38-2	
Barium	<b>0.062</b>	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 23:06	7440-39-3	
Beryllium	<b>0.000079J</b>	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 23:06	7440-41-7	
Boron	<b>1.4</b>	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 23:06	7440-42-8	
Cadmium	<b>0.00011J</b>	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 23:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 23:06	7440-47-3	
Cobalt	<b>0.0028J</b>	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 23:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 23:06	7439-92-1	
Lithium	<b>0.0098J</b>	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 23:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 23:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 23:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 23:06	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	02/08/22 10:20	02/08/22 15:14	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>290</b>	mg/L	10.0	10.0	1		02/02/22 17:20		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO <sub>3</sub>	<b>32.9</b>	mg/L	5.0	1.8	1		02/02/22 22:59		
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	<b>32.9</b>	mg/L	5.0	1.8	1		02/02/22 22:59		
Alkalinity,Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	1.8	1		02/02/22 22:59		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>9.0</b>	mg/L	1.0	0.60	1		01/29/22 18:33	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-101D**      **Lab ID: 92583955021**      Collected: 01/26/22 13:50      Received: 01/27/22 08:50      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		01/29/22 18:33	16984-48-8	
Sulfate	<b>144</b>	mg/L	3.0	1.5	3		01/30/22 04:31	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.  
 Pace Project No.: 92583955

**Sample: EB-6**      **Lab ID: 92583955022**      Collected: 01/26/22 15:20      Received: 01/27/22 08:50      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 19:32	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 19:32	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 19:32	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 19:32	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/22 13:00	02/03/22 23:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 23:18	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/03/22 13:00	02/03/22 23:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/22 13:00	02/03/22 23:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 23:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/22 13:00	02/03/22 23:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/22 13:00	02/03/22 23:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/03/22 13:00	02/03/22 23:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/22 13:00	02/03/22 23:18	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/03/22 13:00	02/03/22 23:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/22 13:00	02/03/22 23:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/22 13:00	02/03/22 23:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/22 13:00	02/03/22 23:18	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 10:20	02/08/22 15:16	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>19.0</b>	mg/L	10.0	10.0	1		02/02/22 17:20		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		02/02/22 23:03		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 23:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/02/22 23:03		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		01/29/22 18:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/29/22 18:47	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/29/22 18:47	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-56**      **Lab ID: 92583955023**      Collected: 01/27/22 12:40      Received: 01/28/22 15:32      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/28/22 16:18		
pH	<b>4.70</b>	Std. Units			1		01/28/22 16:18		

**6010D ATL ICP**

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

Potassium	<b>5.1</b>	mg/L	0.20	0.15	1	02/01/22 11:42	02/01/22 19:36	7440-09-7	
Sodium	<b>20.7</b>	mg/L	1.0	0.58	1	02/01/22 11:42	02/01/22 19:36	7440-23-5	
Calcium	<b>19.8</b>	mg/L	1.0	0.12	1	02/01/22 11:42	02/01/22 19:36	7440-70-2	
Magnesium	<b>34.1</b>	mg/L	0.050	0.012	1	02/01/22 11:42	02/01/22 19:36	7439-95-4	

**6020 MET ICPMS**

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

Antimony	<b>0.0011J</b>	mg/L	0.0030	0.00078	1	02/08/22 14:09	02/09/22 16:52	7440-36-0	B
Arsenic	<b>0.0045J</b>	mg/L	0.0050	0.0011	1	02/08/22 14:09	02/09/22 16:52	7440-38-2	
Barium	<b>0.030</b>	mg/L	0.0050	0.00067	1	02/08/22 14:09	02/09/22 16:52	7440-39-3	
Beryllium	<b>0.0012</b>	mg/L	0.00050	0.000054	1	02/08/22 14:09	02/09/22 16:52	7440-41-7	
Boron	<b>1.6</b>	mg/L	0.040	0.0086	1	02/08/22 14:09	02/09/22 16:52	7440-42-8	
Cadmium	<b>0.00025J</b>	mg/L	0.00050	0.00011	1	02/08/22 14:09	02/09/22 16:52	7440-43-9	
Chromium	<b>0.0014J</b>	mg/L	0.0050	0.0011	1	02/08/22 14:09	02/09/22 16:52	7440-47-3	
Cobalt	<b>0.052</b>	mg/L	0.0050	0.00039	1	02/08/22 14:09	02/09/22 16:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/08/22 14:09	02/09/22 16:52	7439-92-1	
Lithium	<b>0.0061J</b>	mg/L	0.030	0.00073	1	02/08/22 14:09	02/09/22 16:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/08/22 14:09	02/09/22 16:52	7439-98-7	
Selenium	<b>0.0066</b>	mg/L	0.0050	0.0014	1	02/08/22 14:09	02/09/22 16:52	7782-49-2	
Thallium	<b>0.00032J</b>	mg/L	0.0010	0.00018	1	02/08/22 14:09	02/09/22 16:52	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 10:20	02/08/22 15:48	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>344</b>	mg/L	10.0	10.0	1		02/03/22 12:40		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		02/03/22 20:30		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/03/22 20:30		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/03/22 20:30		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>7.6</b>	mg/L	1.0	0.60	1		02/04/22 18:15	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-56 Lab ID: 92583955023 Collected: 01/27/22 12:40 Received: 01/28/22 15:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	0.21	mg/L	0.10	0.050	1		02/04/22 18:15	16984-48-8	
Sulfate	185	mg/L	5.0	2.5	5		02/05/22 04:16	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-88**      **Lab ID: 92583955024**      Collected: 01/27/22 13:15      Received: 01/28/22 15:32      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/28/22 16:18		
pH	<b>5.50</b>	Std. Units			1		01/28/22 16:18		

**6010D ATL ICP**

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

Potassium	<b>11.2</b>	mg/L	0.20	0.15	1	02/01/22 11:42	02/02/22 10:16	7440-09-7	
Sodium	<b>29.7</b>	mg/L	1.0	0.58	1	02/01/22 11:42	02/02/22 10:16	7440-23-5	
Calcium	<b>105</b>	mg/L	1.0	0.12	1	02/01/22 11:42	02/02/22 10:16	7440-70-2	
Magnesium	<b>37.4</b>	mg/L	0.050	0.012	1	02/01/22 11:42	02/02/22 10:16	7439-95-4	

**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	02/08/22 14:09	02/09/22 16:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/08/22 14:09	02/09/22 16:58	7440-38-2	
Barium	<b>0.018</b>	mg/L	0.0050	0.00067	1	02/08/22 14:09	02/09/22 16:58	7440-39-3	
Beryllium	<b>0.0019</b>	mg/L	0.00050	0.000054	1	02/08/22 14:09	02/09/22 16:58	7440-41-7	
Boron	<b>2.7</b>	mg/L	0.040	0.0086	1	02/08/22 14:09	02/09/22 16:58	7440-42-8	
Cadmium	<b>0.0036</b>	mg/L	0.00050	0.00011	1	02/08/22 14:09	02/09/22 16:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/08/22 14:09	02/09/22 16:58	7440-47-3	
Cobalt	<b>0.0038J</b>	mg/L	0.0050	0.00039	1	02/08/22 14:09	02/09/22 16:58	7440-48-4	
Lead	<b>0.0022</b>	mg/L	0.0010	0.00089	1	02/08/22 14:09	02/09/22 16:58	7439-92-1	
Lithium	<b>0.0066J</b>	mg/L	0.030	0.00073	1	02/08/22 14:09	02/09/22 16:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/08/22 14:09	02/09/22 16:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/08/22 14:09	02/09/22 16:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/08/22 14:09	02/09/22 16:58	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 10:20	02/08/22 15:51	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>654</b>	mg/L	20.0	20.0	1		02/03/22 12:40		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>13.9</b>	mg/L	5.0	1.8	1		02/03/22 20:33		
Alkalinity,Bicarbonate (CaCO3)	<b>13.9</b>	mg/L	5.0	1.8	1		02/03/22 20:33		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/03/22 20:33		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>8.8</b>	mg/L	1.0	0.60	1		02/04/22 18:29	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-88**      **Lab ID: 92583955024**      Collected: 01/27/22 13:15      Received: 01/28/22 15:32      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		02/04/22 18:29	16984-48-8	
Sulfate	371	mg/L	9.0	4.5	9		02/05/22 04:57	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

**Sample: B-102D**      **Lab ID: 92583955025**      Collected: 01/27/22 16:25      Received: 01/28/22 15:32      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/28/22 16:18		
pH	<b>5.33</b>	Std. Units			1		01/28/22 16:18		

**6010D ATL ICP**

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

Potassium	<b>6.9</b>	mg/L	0.20	0.15	1	02/01/22 11:42	02/02/22 10:21	7440-09-7	
Sodium	<b>20.4</b>	mg/L	1.0	0.58	1	02/01/22 11:42	02/02/22 10:21	7440-23-5	
Calcium	<b>86.9</b>	mg/L	1.0	0.12	1	02/01/22 11:42	02/02/22 10:21	7440-70-2	
Magnesium	<b>17.3</b>	mg/L	0.050	0.012	1	02/01/22 11:42	02/02/22 10:21	7439-95-4	

**6020 MET ICPMS**

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

Antimony	ND	mg/L	0.0030	0.00078	1	02/08/22 14:09	02/09/22 17:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/08/22 14:09	02/09/22 17:04	7440-38-2	
Barium	<b>0.022</b>	mg/L	0.0050	0.00067	1	02/08/22 14:09	02/09/22 17:04	7440-39-3	
Beryllium	<b>0.0011</b>	mg/L	0.00050	0.000054	1	02/08/22 14:09	02/09/22 17:04	7440-41-7	
Boron	<b>2.7</b>	mg/L	0.040	0.0086	1	02/08/22 14:09	02/09/22 17:04	7440-42-8	
Cadmium	<b>0.00091</b>	mg/L	0.00050	0.00011	1	02/08/22 14:09	02/09/22 17:04	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/08/22 14:09	02/09/22 17:04	7440-47-3	
Cobalt	<b>0.014</b>	mg/L	0.0050	0.00039	1	02/08/22 14:09	02/09/22 17:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/08/22 14:09	02/09/22 17:04	7439-92-1	
Lithium	<b>0.013J</b>	mg/L	0.030	0.00073	1	02/08/22 14:09	02/09/22 17:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/08/22 14:09	02/09/22 17:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/08/22 14:09	02/09/22 17:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/08/22 14:09	02/09/22 17:04	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 10:20	02/08/22 15:53	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>459</b>	mg/L	10.0	10.0	1		02/03/22 12:40		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>10.1</b>	mg/L	5.0	1.8	1		02/03/22 20:37		
Alkalinity,Bicarbonate (CaCO3)	<b>10.1</b>	mg/L	5.0	1.8	1		02/03/22 20:37		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/03/22 20:37		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>10.4</b>	mg/L	1.0	0.60	1		02/04/22 18:43	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Sample: B-102D Lab ID: 92583955025 Collected: 01/27/22 16:25 Received: 01/28/22 15:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	<b>0.062J</b>	mg/L	0.10	0.050	1		02/04/22 18:43	16984-48-8	
Sulfate	<b>231</b>	mg/L	6.0	3.0	6		02/05/22 05:11	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.  
 Pace Project No.: 92583955

**Sample: FB-6**      **Lab ID: 92583955026**      Collected: 01/27/22 14:00      Received: 01/28/22 15:32      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	02/01/22 11:42	02/02/22 09:45	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/01/22 11:42	02/02/22 09:45	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/01/22 11:42	02/02/22 09:45	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/01/22 11:42	02/02/22 09:45	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/08/22 14:09	02/09/22 17:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/08/22 14:09	02/09/22 17:10	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/08/22 14:09	02/09/22 17:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/08/22 14:09	02/09/22 17:10	7440-41-7	
Boron	<b>0.014J</b>	mg/L	0.040	0.0086	1	02/08/22 14:09	02/09/22 17:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/08/22 14:09	02/09/22 17:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/08/22 14:09	02/09/22 17:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/08/22 14:09	02/09/22 17:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/08/22 14:09	02/09/22 17:10	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/08/22 14:09	02/09/22 17:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/08/22 14:09	02/09/22 17:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/08/22 14:09	02/09/22 17:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/08/22 14:09	02/09/22 17:10	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 10:20	02/08/22 15:56	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>14.0</b>	mg/L	10.0	10.0	1		02/03/22 12:40		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		02/03/22 16:47		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/03/22 16:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/03/22 16:47		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		02/04/22 18:56	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/04/22 18:56	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/04/22 18:56	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH AP-2, 3/4 ASSESS.  
 Pace Project No.: 92583955

**Sample: DUP-6**      **Lab ID: 92583955027**      Collected: 01/27/22 00:00      Received: 01/28/22 15:32      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	5.1	mg/L	0.20	0.15	1	02/01/22 11:42	02/02/22 09:50	7440-09-7	
Sodium	21.4	mg/L	1.0	0.58	1	02/01/22 11:42	02/02/22 09:50	7440-23-5	
Calcium	20.1	mg/L	1.0	0.12	1	02/01/22 11:42	02/02/22 09:50	7440-70-2	
Magnesium	34.4	mg/L	0.050	0.012	1	02/01/22 11:42	02/02/22 09:50	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00081J	mg/L	0.0030	0.00078	1	02/08/22 14:09	02/09/22 17:16	7440-36-0	B
Arsenic	0.0047J	mg/L	0.0050	0.0011	1	02/08/22 14:09	02/09/22 17:16	7440-38-2	
Barium	0.028	mg/L	0.0050	0.00067	1	02/08/22 14:09	02/09/22 17:16	7440-39-3	
Beryllium	0.0012	mg/L	0.00050	0.000054	1	02/08/22 14:09	02/09/22 17:16	7440-41-7	
Boron	1.6	mg/L	0.040	0.0086	1	02/08/22 14:09	02/09/22 17:16	7440-42-8	
Cadmium	0.00030J	mg/L	0.00050	0.00011	1	02/08/22 14:09	02/09/22 17:16	7440-43-9	
Chromium	0.0012J	mg/L	0.0050	0.0011	1	02/08/22 14:09	02/09/22 17:16	7440-47-3	
Cobalt	0.052	mg/L	0.0050	0.00039	1	02/08/22 14:09	02/09/22 17:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/08/22 14:09	02/09/22 17:16	7439-92-1	
Lithium	0.0059J	mg/L	0.030	0.00073	1	02/08/22 14:09	02/09/22 17:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/08/22 14:09	02/09/22 17:16	7439-98-7	
Selenium	0.0064	mg/L	0.0050	0.0014	1	02/08/22 14:09	02/09/22 17:16	7782-49-2	
Thallium	0.00024J	mg/L	0.0010	0.00018	1	02/08/22 14:09	02/09/22 17:16	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/22 10:20	02/08/22 16:04	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	349	mg/L	10.0	10.0	1		02/03/22 12:41		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		02/08/22 20:17		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/08/22 20:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		02/08/22 20:17		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	7.5	mg/L	1.0	0.60	1		02/04/22 19:10	16887-00-6	
Fluoride	0.20	mg/L	0.10	0.050	1		02/04/22 19:10	16984-48-8	
Sulfate	184	mg/L	5.0	2.5	5		02/05/22 05:25	14808-79-8	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch:	673590	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583955001, 92583955002, 92583955003, 92583955004, 92583955005, 92583955006, 92583955007, 92583955008

METHOD BLANK:	3525723	Matrix:	Water
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Associated Lab Samples: 92583955001, 92583955002, 92583955003, 92583955004, 92583955005, 92583955006, 92583955007, 92583955008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	01/25/22 16:54	
Magnesium	mg/L	ND	0.050	0.012	01/25/22 16:54	
Potassium	mg/L	ND	0.20	0.15	01/25/22 16:54	
Sodium	mg/L	ND	1.0	0.58	01/25/22 16:54	

LABORATORY CONTROL SAMPLE: 3525724

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	105	80-120	
Potassium	mg/L	1	1.1	106	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525725 3525726

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583953001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	44.6	1	1	45.6	45.2	100	56	75-125	1	20 M1
Magnesium	mg/L	9.2	1	1	10.4	10.1	118	95	75-125	2	20
Potassium	mg/L	6.0	1	1	6.9	7.0	96	106	75-125	1	20
Sodium	mg/L	10.4	1	1	11.8	11.3	144	90	75-125	5	20 M1

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch: 675195 Analysis Method: EPA 6010D  
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92583955010, 92583955011, 92583955012, 92583955013, 92583955014, 92583955015, 92583955016, 92583955017, 92583955018, 92583955019, 92583955020, 92583955021, 92583955022, 92583955023, 92583955024, 92583955025, 92583955026, 92583955027

METHOD BLANK: 3533851 Matrix: Water  
 Associated Lab Samples: 92583955010, 92583955011, 92583955012, 92583955013, 92583955014, 92583955015, 92583955016, 92583955017, 92583955018, 92583955019, 92583955020, 92583955021, 92583955022, 92583955023, 92583955024, 92583955025, 92583955026, 92583955027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/01/22 17:42	
Magnesium	mg/L	ND	0.050	0.012	02/01/22 17:42	
Potassium	mg/L	ND	0.20	0.15	02/01/22 17:42	
Sodium	mg/L	ND	1.0	0.58	02/01/22 17:42	

LABORATORY CONTROL SAMPLE: 3533852

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	108	80-120	
Magnesium	mg/L	1	1.1	108	80-120	
Potassium	mg/L	1	1.0	102	80-120	
Sodium	mg/L	1	1.1	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3533853 3533854

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		92583955010	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Calcium	mg/L	89.9	1	1	83.9	89.0	-601	-84	75-125	6	20	M1	
Magnesium	mg/L	32.3	1	1	31.0	32.8	-138	49	75-125	6	20	M1	
Potassium	mg/L	6.3	1	1	6.8	7.2	54	99	75-125	6	20	M1	
Sodium	mg/L	20.6	1	1	20.2	21.2	-44	62	75-125	5	20	M1	

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### QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.  
 Pace Project No.: 92583955

QC Batch: 675554 Analysis Method: EPA 6010D  
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583955009

METHOD BLANK: 3535646 Matrix: Water  
 Associated Lab Samples: 92583955009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/03/22 22:50	
Magnesium	mg/L	ND	0.050	0.012	02/03/22 22:50	
Potassium	mg/L	ND	0.20	0.15	02/03/22 22:50	
Sodium	mg/L	ND	1.0	0.58	02/03/22 22:50	

LABORATORY CONTROL SAMPLE: 3535647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	110	80-120	
Magnesium	mg/L	1	1.1	112	80-120	
Potassium	mg/L	1	1.0	104	80-120	
Sodium	mg/L	1	1.2	115	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3535648 3535649

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583955009	Result	Conc.	Conc.						
Calcium	mg/L	163	1	1	175	172	1180	964	75-125	1	20 M1
Magnesium	mg/L	27.8	1	1	30.1	30.0	226	216	75-125	0	20 M1
Potassium	mg/L	8.7	1	1	10.4	10.3	170	157	75-125	1	20 M1
Sodium	mg/L	19.7	1	1	23.0	22.8	331	308	75-125	1	20 M1

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch:	673615	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583955001, 92583955002, 92583955003, 92583955004, 92583955005, 92583955006, 92583955007, 92583955008

METHOD BLANK: 3525835 Matrix: Water

Associated Lab Samples: 92583955001, 92583955002, 92583955003, 92583955004, 92583955005, 92583955006, 92583955007, 92583955008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	01/26/22 12:50	
Arsenic	mg/L	ND	0.0050	0.0011	01/26/22 12:50	
Barium	mg/L	ND	0.0050	0.00067	01/26/22 12:50	
Beryllium	mg/L	ND	0.00050	0.000054	01/26/22 12:50	
Boron	mg/L	ND	0.040	0.0086	01/26/22 12:50	
Cadmium	mg/L	ND	0.00050	0.00011	01/26/22 12:50	
Chromium	mg/L	ND	0.0050	0.0011	01/26/22 12:50	
Cobalt	mg/L	ND	0.0050	0.00039	01/26/22 12:50	
Lead	mg/L	ND	0.0010	0.00089	01/26/22 12:50	
Lithium	mg/L	ND	0.030	0.00073	01/26/22 12:50	
Molybdenum	mg/L	ND	0.010	0.00074	01/26/22 12:50	
Selenium	mg/L	ND	0.0050	0.0014	01/26/22 12:50	
Thallium	mg/L	ND	0.0010	0.00018	01/26/22 12:50	

LABORATORY CONTROL SAMPLE: 3525836

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	0.093	93	80-120	
Barium	mg/L	0.1	0.095	95	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.095	95	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.097	97	80-120	
Molybdenum	mg/L	0.1	0.098	98	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: 3525837 3525838

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583953002	Spike Conc.	Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	107	103	75-125	4	20

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Parameter	Units	3525837		3525838		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92583953002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Arsenic	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	1	20		
Barium	mg/L	0.024	0.1	0.1	0.12	0.12	98	95	75-125	2	20		
Beryllium	mg/L	0.00019J	0.1	0.1	0.091	0.088	91	88	75-125	3	20		
Boron	mg/L	6.9	1	1	8.0	7.8	108	86	75-125	3	20		
Cadmium	mg/L	ND	0.1	0.1	0.098	0.095	98	95	75-125	4	20		
Chromium	mg/L	ND	0.1	0.1	0.096	0.096	95	95	75-125	0	20		
Cobalt	mg/L	0.0076	0.1	0.1	0.10	0.10	95	95	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.094	96	94	75-125	2	20		
Lithium	mg/L	0.0058J	0.1	0.1	0.099	0.094	93	88	75-125	6	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	103	100	75-125	3	20		
Selenium	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.094	96	93	75-125	3	20		

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### QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch: 675780 Analysis Method: EPA 6020B  
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583955009, 92583955010, 92583955011, 92583955012, 92583955013

METHOD BLANK: 3536808

Matrix: Water

Associated Lab Samples: 92583955009, 92583955010, 92583955011, 92583955012, 92583955013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/03/22 16:32	
Arsenic	mg/L	ND	0.0050	0.0011	02/03/22 16:32	
Barium	mg/L	ND	0.0050	0.00067	02/03/22 16:32	
Beryllium	mg/L	ND	0.00050	0.000054	02/03/22 16:32	
Boron	mg/L	ND	0.040	0.0086	02/03/22 16:32	
Cadmium	mg/L	ND	0.00050	0.00011	02/03/22 16:32	
Chromium	mg/L	ND	0.0050	0.0011	02/03/22 16:32	
Cobalt	mg/L	ND	0.0050	0.00039	02/03/22 16:32	
Lead	mg/L	ND	0.0010	0.00089	02/03/22 16:32	
Lithium	mg/L	ND	0.030	0.00073	02/03/22 16:32	
Molybdenum	mg/L	ND	0.010	0.00074	02/03/22 16:32	
Selenium	mg/L	ND	0.0050	0.0014	02/03/22 16:32	
Thallium	mg/L	ND	0.0010	0.00018	02/03/22 16:32	

LABORATORY CONTROL SAMPLE: 3536809

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.083	83	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	112	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.087	87	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.087	87	80-120	
Selenium	mg/L	0.1	0.11	106	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3536810 3536811

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583953011 Result	Spike Conc.	Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	109	109	75-125	0	20
Arsenic	mg/L	0.0011J	0.1	0.1	0.11	0.11	108	109	75-125	1	20

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Parameter	Units	3536810		3536811		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583953011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.035	0.1	0.1	0.14	0.14	104	103	75-125	1	20		
Beryllium	mg/L	0.00033J	0.1	0.1	0.092	0.091	92	90	75-125	2	20		
Boron	mg/L	5.1	1	1	5.9	5.7	77	53	75-125	4	20	M1	
Cadmium	mg/L	0.00098	0.1	0.1	0.098	0.10	97	99	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	104	100	75-125	4	20		
Cobalt	mg/L	0.0019J	0.1	0.1	0.098	0.098	96	96	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.091	0.092	91	92	75-125	2	20		
Lithium	mg/L	0.0038J	0.1	0.1	0.10	0.098	96	95	75-125	1	20		
Molybdenum	mg/L	0.0045J	0.1	0.1	0.10	0.10	96	99	75-125	3	20		
Selenium	mg/L	ND	0.1	0.1	0.12	0.12	115	116	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20		

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### QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.  
 Pace Project No.: 92583955

QC Batch: 675834 Analysis Method: EPA 6020B  
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92583955014, 92583955015, 92583955016, 92583955017, 92583955018, 92583955019, 92583955020, 92583955021, 92583955022

METHOD BLANK: 3537236 Matrix: Water  
 Associated Lab Samples: 92583955014, 92583955015, 92583955016, 92583955017, 92583955018, 92583955019, 92583955020, 92583955021, 92583955022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/03/22 20:25	
Arsenic	mg/L	ND	0.0050	0.0011	02/03/22 20:25	
Barium	mg/L	ND	0.0050	0.00067	02/03/22 20:25	
Beryllium	mg/L	ND	0.00050	0.000054	02/03/22 20:25	
Boron	mg/L	ND	0.040	0.0086	02/03/22 20:25	
Cadmium	mg/L	ND	0.00050	0.00011	02/03/22 20:25	
Chromium	mg/L	ND	0.0050	0.0011	02/03/22 20:25	
Cobalt	mg/L	ND	0.0050	0.00039	02/03/22 20:25	
Lead	mg/L	ND	0.0010	0.00089	02/03/22 20:25	
Lithium	mg/L	ND	0.030	0.00073	02/03/22 20:25	
Molybdenum	mg/L	ND	0.010	0.00074	02/03/22 20:25	
Selenium	mg/L	ND	0.0050	0.0014	02/03/22 20:25	
Thallium	mg/L	ND	0.0010	0.00018	02/03/22 20:25	

LABORATORY CONTROL SAMPLE: 3537237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	112	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.11	107	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	0.10	103	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	108	80-120	
Molybdenum	mg/L	0.1	0.11	107	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3537238 3537239

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583953026	Spike Conc.	Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	110	111	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.

Pace Project No.: 92583955

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3537238 3537239												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92583953026 Result	Spike Conc.	Spike Conc.	MS Result							
Arsenic	mg/L	0.012	0.1	0.1	0.11	0.11	100	101	75-125	1	20	
Barium	mg/L	0.016	0.1	0.1	0.12	0.12	102	104	75-125	2	20	
Beryllium	mg/L	0.0054	0.1	0.1	0.10	0.11	98	100	75-125	2	20	
Boron	mg/L	0.69	1	1	1.7	1.7	96	102	75-125	4	20	
Cadmium	mg/L	0.00059	0.1	0.1	0.098	0.099	97	99	75-125	1	20	
Chromium	mg/L	0.0029J	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Cobalt	mg/L	0.22	0.1	0.1	0.31	0.32	88	101	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.086	0.087	86	86	75-125	0	20	
Lithium	mg/L	0.029J	0.1	0.1	0.13	0.13	102	104	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	107	109	75-125	1	20	
Selenium	mg/L	0.025	0.1	0.1	0.13	0.13	103	105	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.083	0.085	83	84	75-125	2	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch:	676716	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583955023, 92583955024, 92583955025, 92583955026, 92583955027

METHOD BLANK: 3541772 Matrix: Water

Associated Lab Samples: 92583955023, 92583955024, 92583955025, 92583955026, 92583955027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00082J	0.0030	0.00078	02/09/22 16:40	
Arsenic	mg/L	ND	0.0050	0.0011	02/09/22 16:40	
Barium	mg/L	ND	0.0050	0.00067	02/09/22 16:40	
Beryllium	mg/L	ND	0.00050	0.000054	02/09/22 16:40	
Boron	mg/L	ND	0.040	0.0086	02/09/22 16:40	
Cadmium	mg/L	ND	0.00050	0.00011	02/09/22 16:40	
Chromium	mg/L	ND	0.0050	0.0011	02/09/22 16:40	
Cobalt	mg/L	ND	0.0050	0.00039	02/09/22 16:40	
Lead	mg/L	ND	0.0010	0.00089	02/09/22 16:40	
Lithium	mg/L	ND	0.030	0.00073	02/09/22 16:40	
Molybdenum	mg/L	ND	0.010	0.00074	02/09/22 16:40	
Selenium	mg/L	ND	0.0050	0.0014	02/09/22 16:40	
Thallium	mg/L	ND	0.0010	0.00018	02/09/22 16:40	

LABORATORY CONTROL SAMPLE: 3541773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	105	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	1.1	109	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3541774 3541775

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585697002	Spike Conc.	Spike Conc.	Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	105	102	75-125	4	20
Arsenic	mg/L	1.3J ug/L	0.1	0.1	0.099	0.099	98	97	75-125	1	20

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Parameter	Units	92585697002		3541774		3541775		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Barium	mg/L	238 ug/L	0.1	0.1	0.34	0.34	103	100	75-125	1	20			
Beryllium	mg/L	1.5 ug/L	0.1	0.1	0.096	0.098	95	97	75-125	2	20			
Boron	mg/L	11.6J ug/L	1	1	0.98	1.0	97	101	75-125	4	20			
Cadmium	mg/L	ND	0.1	0.1	0.095	0.10	95	101	75-125	6	20			
Chromium	mg/L	1.1J ug/L	0.1	0.1	0.099	0.10	98	100	75-125	3	20			
Cobalt	mg/L	1.9J ug/L	0.1	0.1	0.10	0.097	99	95	75-125	4	20			
Lead	mg/L	ND	0.1	0.1	0.096	0.094	96	94	75-125	2	20			
Lithium	mg/L	6.9J ug/L	0.1	0.1	0.10	0.099	95	92	75-125	3	20			
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	2	20			
Selenium	mg/L	ND	0.1	0.1	0.094	0.093	94	93	75-125	1	20			
Thallium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20			

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### QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

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QC Batch: 676525 Analysis Method: EPA 7470A  
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92583955001, 92583955002, 92583955003, 92583955004, 92583955005, 92583955006, 92583955007, 92583955008, 92583955009, 92583955010, 92583955011, 92583955012, 92583955013, 92583955014, 92583955015, 92583955016

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METHOD BLANK: 3541062 Matrix: Water  
 Associated Lab Samples: 92583955001, 92583955002, 92583955003, 92583955004, 92583955005, 92583955006, 92583955007, 92583955008, 92583955009, 92583955010, 92583955011, 92583955012, 92583955013, 92583955014, 92583955015, 92583955016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/08/22 13:28	

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LABORATORY CONTROL SAMPLE: 3541063

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

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MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3541064 3541065

Parameter	Units	3541064		3541065		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0022	0.0023	89	91	75-125	3	20

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch:	676529	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583955017, 92583955018, 92583955019, 92583955020, 92583955021, 92583955022, 92583955023, 92583955024, 92583955025, 92583955026, 92583955027

METHOD BLANK: 3541084 Matrix: Water

Associated Lab Samples: 92583955017, 92583955018, 92583955019, 92583955020, 92583955021, 92583955022, 92583955023, 92583955024, 92583955025, 92583955026, 92583955027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/08/22 14:45	

LABORATORY CONTROL SAMPLE: 3541085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3541086 3541087

Parameter	Units	92583955017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0023	90	87	75-125	3	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4 ASSESS.  
 Pace Project No.: 92583955

QC Batch: 674001 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: 92583955001, 92583955002, 92583955003, 92583955004, 92583955005, 92583955006

METHOD BLANK: 3527668 Matrix: Water  
 Associated Lab Samples: 92583955001, 92583955002, 92583955003, 92583955004, 92583955005, 92583955006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	01/26/22 17:40	

LABORATORY CONTROL SAMPLE: 3527669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	377	94	80-120	

SAMPLE DUPLICATE: 3527670

Parameter	Units	92583746001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	214	215	0	25	

SAMPLE DUPLICATE: 3527671

Parameter	Units	92583955001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	177	164	8	25	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch:	674255	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: 92583955007, 92583955008, 92583955009, 92583955010

METHOD BLANK: 3528806 Matrix: Water  
 Associated Lab Samples: 92583955007, 92583955008, 92583955009, 92583955010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	01/28/22 10:29	

LABORATORY CONTROL SAMPLE: 3528807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	385	96	80-120	

SAMPLE DUPLICATE: 3528809

Parameter	Units	92584530001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1740	1870	7	25	

SAMPLE DUPLICATE: 3530611

Parameter	Units	92583953011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1520	1540	1	25	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4 ASSESS.  
 Pace Project No.: 92583955

QC Batch: 674961 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: 92583955011, 92583955012

METHOD BLANK: 3532863 Matrix: Water  
 Associated Lab Samples: 92583955011, 92583955012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	01/31/22 19:09	

LABORATORY CONTROL SAMPLE: 3532864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3532865

Parameter	Units	92583955011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	502	526	5	25	

SAMPLE DUPLICATE: 3532866

Parameter	Units	92583953014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	426	422	1	25	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4 ASSESS.  
 Pace Project No.: 92583955

QC Batch: 675199 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: 92583955013, 92583955014, 92583955015, 92583955016

METHOD BLANK: 3533876 Matrix: Water  
 Associated Lab Samples: 92583955013, 92583955014, 92583955015, 92583955016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/01/22 13:52	

LABORATORY CONTROL SAMPLE: 3533877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	378	94	80-120	

SAMPLE DUPLICATE: 3533878

Parameter	Units	92583953022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	256	269	5	25	

SAMPLE DUPLICATE: 3533879

Parameter	Units	92584522003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	135	137	1	25	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4 ASSESS.  
 Pace Project No.: 92583955

QC Batch: 675202 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: 92583955017, 92583955018, 92583955019, 92583955020

METHOD BLANK: 3533883 Matrix: Water  
 Associated Lab Samples: 92583955017, 92583955018, 92583955019, 92583955020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/01/22 14:06	

LABORATORY CONTROL SAMPLE: 3533884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3533885

Parameter	Units	92584543008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	57.0	52.0	9	25	

SAMPLE DUPLICATE: 3533886

Parameter	Units	92585000001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	56.0	66.0	16	25	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch: 675522	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: 92583955021, 92583955022

METHOD BLANK: 3535377 Matrix: Water  
 Associated Lab Samples: 92583955021, 92583955022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/02/22 17:20	

LABORATORY CONTROL SAMPLE: 3535378

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

SAMPLE DUPLICATE: 3535379

Parameter	Units	92583955021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	290	301	4	25	

SAMPLE DUPLICATE: 3535380

Parameter	Units	92584814001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	4960000 ug/L	4580	8	25	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4 ASSESS.  
 Pace Project No.: 92583955

QC Batch: 675783 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: 92583955023, 92583955024, 92583955025, 92583955026, 92583955027

METHOD BLANK: 3536822 Matrix: Water  
 Associated Lab Samples: 92583955023, 92583955024, 92583955025, 92583955026, 92583955027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/03/22 12:37	

LABORATORY CONTROL SAMPLE: 3536823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	376	94	80-120	

SAMPLE DUPLICATE: 3536824

Parameter	Units	92584785018 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	274	288	5	25	

SAMPLE DUPLICATE: 3536825

Parameter	Units	92583603003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	155	146	6	25	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4 ASSESS.  
 Pace Project No.: 92583955

QC Batch: 795302 Analysis Method: SM 2320B  
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Minneapolis  
 Associated Lab Samples: 92583955001, 92583955002, 92583955003

METHOD BLANK: 4229437 Matrix: Water  
 Associated Lab Samples: 92583955001, 92583955002, 92583955003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	01/25/22 15:45	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	01/25/22 15:45	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	01/25/22 15:45	

LABORATORY CONTROL SAMPLE & LCSD: 4229438 4229439

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	% Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	40.6	43.0	102	108	90-110	6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4229440 4229441

Parameter	Units	10595205001 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	24.5	40	40	57.6	55.0	83	76	80-120	5	20	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4229637 4229638

Parameter	Units	10594190002 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	330	40	40	368	367	94	92	80-120	0	20	

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### QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.  
 Pace Project No.: 92583955

QC Batch: 795372 Analysis Method: SM 2320B  
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Minneapolis  
 Associated Lab Samples: 92583955004, 92583955005, 92583955006, 92583955007, 92583955008

METHOD BLANK: 4229775 Matrix: Water  
 Associated Lab Samples: 92583955004, 92583955005, 92583955006, 92583955007, 92583955008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	ND	5.0	1.8	01/25/22 20:46	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	ND	5.0	1.8	01/25/22 20:46	
Alkalinity,Carbonate (CaCO <sub>3</sub> )	mg/L	ND	5.0	1.8	01/25/22 20:46	

LABORATORY CONTROL SAMPLE & LCSD: 4229776 4229777

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	40	40.3	42.1	101	105	90-110	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4229778 4229779

Parameter	Units	92583955004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	12.0	40	40	44.3	43.6	81	79	80-120	2	20	M1

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch: 795662 Analysis Method: SM 2320B  
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Minneapolis  
 Associated Lab Samples: 92583955009, 92583955010, 92583955011, 92583955012

METHOD BLANK: 4230834 Matrix: Water  
 Associated Lab Samples: 92583955009, 92583955010, 92583955011, 92583955012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	01/27/22 15:32	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	01/27/22 15:32	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	01/27/22 15:32	

LABORATORY CONTROL SAMPLE & LCSD: 4230835 4230836

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	41.8	37.4	105	94	90-110	11	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4230837 4230838

Parameter	Units	92583955011 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	26.8	40	40	66.4	66.4	99	99	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4230839 4230840

Parameter	Units	10595396002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	111	40	40	140	149	73	96	80-120	6	20	M1

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### QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch:	796618	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 92583955013, 92583955014, 92583955015, 92583955016

METHOD BLANK: 4234697 Matrix: Water  
 Associated Lab Samples: 92583955013, 92583955014, 92583955015, 92583955016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	02/02/22 14:45	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/02/22 14:45	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	02/02/22 14:45	

LABORATORY CONTROL SAMPLE & LCSD: 4234698 4234699

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	42.0	42.0	105	105	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4234700 4234701

Parameter	Units	92583600008 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	192	40	40	232	232	99	100	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4234702 4234703

Parameter	Units	10595445007 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	490	40	40	529	530	98	99	80-120	0	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch: 796922	Analysis Method: SM 2320B
QC Batch Method: SM 2320B	Analysis Description: 2320B Alkalinity
	Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 92583955020, 92583955021, 92583955022

METHOD BLANK: 4235794 Matrix: Water  
 Associated Lab Samples: 92583955020, 92583955021, 92583955022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	02/02/22 21:14	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/02/22 21:14	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	02/02/22 21:14	

LABORATORY CONTROL SAMPLE & LCSD: 4235795 4235796

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	42.2	42.2	106	105	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4235797 4235798

Parameter	Units	10596266001 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	20.9	40	40	60.9	60.9	100	100	80-120	0	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch: 796924

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 92583955017, 92583955018

METHOD BLANK: 4235804

Matrix: Water

Associated Lab Samples: 92583955017, 92583955018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	02/03/22 14:42	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/03/22 14:42	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	02/03/22 14:42	

LABORATORY CONTROL SAMPLE & LCSD: 4235805

4235806

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	41.8	42.0	105	105	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4235807

4235808

Parameter	Units	10595854005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	127	40	40	166	166	99	98	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4235809

4235810

Parameter	Units	92585058002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	132	40	40	171	170	98	97	80-120	0	20	

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### QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch:	796925	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	92583955019, 92583955023, 92583955024, 92583955025, 92583955026		

METHOD BLANK: 4235811 Matrix: Water  
 Associated Lab Samples: 92583955019, 92583955023, 92583955024, 92583955025, 92583955026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	02/03/22 16:05	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/03/22 16:05	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	02/03/22 16:05	

LABORATORY CONTROL SAMPLE & LCSD: 4235812 4235813

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	42.5	42.5	106	106	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4235814 4235815

Parameter	Units	92583955019 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	53.0	40	40	92.6	92.8	99	100	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4235816 4235817

Parameter	Units	10595798001 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	164	40	40	204	204	98	99	80-120	0	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch: 797671

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 92583955027

METHOD BLANK: 4238674

Matrix: Water

Associated Lab Samples: 92583955027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	02/08/22 15:29	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	02/08/22 15:29	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	02/08/22 15:29	

LABORATORY CONTROL SAMPLE & LCSD: 4238675

4238676

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	41.5	41.3	104	103	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4238677

4238678

Parameter	Units	10596588001 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	22.6	40	40	61.8	60.9	98	96	80-120	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4238679

4238680

Parameter	Units	10596637001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	16.8	40	40	56.5	58.4	99	104	80-120	3	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4 ASSESS.  
 Pace Project No.: 92583955

QC Batch: 673554 Analysis Method: EPA 300.0 Rev 2.1 1993  
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
 Laboratory: Pace Analytical Services - Asheville  
 Associated Lab Samples: 92583955001, 92583955002, 92583955003, 92583955004, 92583955005, 92583955006, 92583955007, 92583955008

METHOD BLANK: 3525639 Matrix: Water  
 Associated Lab Samples: 92583955001, 92583955002, 92583955003, 92583955004, 92583955005, 92583955006, 92583955007, 92583955008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/25/22 13:04	
Fluoride	mg/L	ND	0.10	0.050	01/25/22 13:04	
Sulfate	mg/L	ND	1.0	0.50	01/25/22 13:04	

LABORATORY CONTROL SAMPLE: 3525640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.9	102	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	51.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525641 3525642

Parameter	Units	92583953001		3525642		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chloride	mg/L	2.0	50	50	53.1	53.7	102	103	90-110	1	10
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	96	97	90-110	0	10
Sulfate	mg/L	101	50	50	145	146	89	91	90-110	1	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525643 3525644

Parameter	Units	92583953001		3525644		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chloride	mg/L	2.0	50	50	50.2	52.2	96	101	90-110	4	10
Fluoride	mg/L	ND	2.5	2.5	2.2	2.6	88	102	90-110	15	10 M1, R1
Sulfate	mg/L	101	50	50	49.6	48.9	-102	-104	90-110	1	10 M1

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### QUALITY CONTROL DATA

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch: 673904 Analysis Method: EPA 300.0 Rev 2.1 1993  
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
 Laboratory: Pace Analytical Services - Asheville  
 Associated Lab Samples: 92583955009, 92583955010, 92583955011, 92583955012

METHOD BLANK: 3527216 Matrix: Water  
 Associated Lab Samples: 92583955009, 92583955010, 92583955011, 92583955012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/26/22 17:51	
Fluoride	mg/L	ND	0.10	0.050	01/26/22 17:51	
Sulfate	mg/L	ND	1.0	0.50	01/26/22 17:51	

LABORATORY CONTROL SAMPLE: 3527217

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3527218 3527219

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92584141001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	18.4	18.4	50	50	69.0	69.2	101	102	90-110	0	10	
Fluoride	mg/L	0.41	0.41	2.5	2.5	2.9	2.9	100	100	90-110	1	10	
Sulfate	mg/L	14.2	14.2	50	50	64.1	64.1	100	100	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3527220 3527221

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92584178003	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	2.1	2.1	50	50	53.4	54.4	102	105	90-110	2	10	
Fluoride	mg/L	ND	ND	2.5	2.5	2.4	2.4	93	96	90-110	3	10	
Sulfate	mg/L	11.6	11.6	50	50	62.4	63.0	102	103	90-110	1	10	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch: 674220 Analysis Method: EPA 300.0 Rev 2.1 1993  
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92583955013, 92583955014, 92583955015, 92583955016

METHOD BLANK: 3528706 Matrix: Water  
 Associated Lab Samples: 92583955013, 92583955014, 92583955015, 92583955016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/28/22 03:48	
Fluoride	mg/L	ND	0.10	0.050	01/28/22 03:48	
Sulfate	mg/L	ND	1.0	0.50	01/28/22 03:48	

LABORATORY CONTROL SAMPLE: 3528707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.8	102	90-110	
Fluoride	mg/L	2.5	2.4	98	90-110	
Sulfate	mg/L	50	49.1	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3528708 3528709

Parameter	Units	92583953020		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual	
Chloride	mg/L	14.1	50	50	66.6	66.4	105	105	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	99	100	90-110	1	10		
Sulfate	mg/L	250	50	50	297	288	94	77	90-110	3	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3528710 3528711

Parameter	Units	92584465001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual	
Chloride	mg/L	8.3	50	50	60.5	61.3	104	106	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	96	98	90-110	2	10		
Sulfate	mg/L	4.5	50	50	56.1	56.5	103	104	90-110	1	10		

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch:	674479	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples:	92583955017, 92583955018, 92583955019, 92583955020, 92583955021, 92583955022		

METHOD BLANK: 3530364 Matrix: Water  
 Associated Lab Samples: 92583955017, 92583955018, 92583955019, 92583955020, 92583955021, 92583955022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/29/22 12:30	
Fluoride	mg/L	ND	0.10	0.050	01/29/22 12:30	
Sulfate	mg/L	ND	1.0	0.50	01/29/22 12:30	

LABORATORY CONTROL SAMPLE: 3530365

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.2	102	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	49.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3530366 3530367

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92584825001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	1.7	50	50	52.4	53.7	101	104	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	96	99	90-110	3	10		
Sulfate	mg/L	1.1	50	50	51.5	53.1	101	104	90-110	3	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3530368 3530369

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583953028	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	ND	50	50	51.7	51.3	103	103	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.7	2.4	109	96	90-110	12	10	R1	
Sulfate	mg/L	ND	50	50	51.5	50.7	103	101	90-110	2	10		

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

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

QC Batch: 675484 Analysis Method: EPA 300.0 Rev 2.1 1993  
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
 Laboratory: Pace Analytical Services - Asheville  
 Associated Lab Samples: 92583955023, 92583955024, 92583955025, 92583955026, 92583955027

METHOD BLANK: 3535178 Matrix: Water  
 Associated Lab Samples: 92583955023, 92583955024, 92583955025, 92583955026, 92583955027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/04/22 12:13	
Fluoride	mg/L	ND	0.10	0.050	02/04/22 12:13	
Sulfate	mg/L	ND	1.0	0.50	02/04/22 12:13	

LABORATORY CONTROL SAMPLE: 3535179

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	98	90-110	
Sulfate	mg/L	50	49.3	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3535180 3535181

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585451002 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	65.5	50	50	50	101	102	71	74	90-110	1	10	M1
Fluoride	mg/L	0.46	2.5	2.5	2.5	2.9	2.9	97	97	90-110	0	10	
Sulfate	mg/L	122	50	50	50	169	170	94	96	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3535182 3535183

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92584785016 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	4.9	50	50	50	57.1	56.8	104	104	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	2.5	100	100	90-110	0	10	
Sulfate	mg/L	89.9	50	50	50	117	117	54	55	90-110	0	10	M1

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## QUALIFIERS

Project: MCDONOUGH AP-2, 3/4 ASSESS.  
Pace Project No.: 92583955

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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

R1 RPD value was outside control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583955001	B-63				
92583955002	B-77				
92583955003	B-109D				
92583955004	B-115D				
92583955005	B-120D				
92583955007	B-83				
92583955009	B-104D				
92583955010	B-107D				
92583955011	B-108D				
92583955012	B-111D				
92583955013	B-66				
92583955014	B-82				
92583955015	B-106D				
92583955017	B-92				
92583955018	B-93				
92583955019	B-97				
92583955020	B-98				
92583955021	B-101D				
92583955023	B-56				
92583955024	B-88				
92583955025	B-102D				
92583955001	B-63	EPA 3010A	673590	EPA 6010D	673658
92583955002	B-77	EPA 3010A	673590	EPA 6010D	673658
92583955003	B-109D	EPA 3010A	673590	EPA 6010D	673658
92583955004	B-115D	EPA 3010A	673590	EPA 6010D	673658
92583955005	B-120D	EPA 3010A	673590	EPA 6010D	673658
92583955006	EB-2	EPA 3010A	673590	EPA 6010D	673658
92583955007	B-83	EPA 3010A	673590	EPA 6010D	673658
92583955008	EB-3	EPA 3010A	673590	EPA 6010D	673658
92583955009	B-104D	EPA 3010A	675554	EPA 6010D	675629
92583955010	B-107D	EPA 3010A	675195	EPA 6010D	675308
92583955011	B-108D	EPA 3010A	675195	EPA 6010D	675308
92583955012	B-111D	EPA 3010A	675195	EPA 6010D	675308
92583955013	B-66	EPA 3010A	675195	EPA 6010D	675308
92583955014	B-82	EPA 3010A	675195	EPA 6010D	675308
92583955015	B-106D	EPA 3010A	675195	EPA 6010D	675308
92583955016	EB-5	EPA 3010A	675195	EPA 6010D	675308
92583955017	B-92	EPA 3010A	675195	EPA 6010D	675308
92583955018	B-93	EPA 3010A	675195	EPA 6010D	675308
92583955019	B-97	EPA 3010A	675195	EPA 6010D	675308
92583955020	B-98	EPA 3010A	675195	EPA 6010D	675308
92583955021	B-101D	EPA 3010A	675195	EPA 6010D	675308
92583955022	EB-6	EPA 3010A	675195	EPA 6010D	675308
92583955023	B-56	EPA 3010A	675195	EPA 6010D	675308
92583955024	B-88	EPA 3010A	675195	EPA 6010D	675308
92583955025	B-102D	EPA 3010A	675195	EPA 6010D	675308
92583955026	FB-6	EPA 3010A	675195	EPA 6010D	675308

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583955027	DUP-6	EPA 3010A	675195	EPA 6010D	675308
92583955001	B-63	EPA 3005A	673615	EPA 6020B	673659
92583955002	B-77	EPA 3005A	673615	EPA 6020B	673659
92583955003	B-109D	EPA 3005A	673615	EPA 6020B	673659
92583955004	B-115D	EPA 3005A	673615	EPA 6020B	673659
92583955005	B-120D	EPA 3005A	673615	EPA 6020B	673659
92583955006	EB-2	EPA 3005A	673615	EPA 6020B	673659
92583955007	B-83	EPA 3005A	673615	EPA 6020B	673659
92583955008	EB-3	EPA 3005A	673615	EPA 6020B	673659
92583955009	B-104D	EPA 3005A	675780	EPA 6020B	675870
92583955010	B-107D	EPA 3005A	675780	EPA 6020B	675870
92583955011	B-108D	EPA 3005A	675780	EPA 6020B	675870
92583955012	B-111D	EPA 3005A	675780	EPA 6020B	675870
92583955013	B-66	EPA 3005A	675780	EPA 6020B	675870
92583955014	B-82	EPA 3005A	675834	EPA 6020B	675916
92583955015	B-106D	EPA 3005A	675834	EPA 6020B	675916
92583955016	EB-5	EPA 3005A	675834	EPA 6020B	675916
92583955017	B-92	EPA 3005A	675834	EPA 6020B	675916
92583955018	B-93	EPA 3005A	675834	EPA 6020B	675916
92583955019	B-97	EPA 3005A	675834	EPA 6020B	675916
92583955020	B-98	EPA 3005A	675834	EPA 6020B	675916
92583955021	B-101D	EPA 3005A	675834	EPA 6020B	675916
92583955022	EB-6	EPA 3005A	675834	EPA 6020B	675916
92583955023	B-56	EPA 3005A	676716	EPA 6020B	677023
92583955024	B-88	EPA 3005A	676716	EPA 6020B	677023
92583955025	B-102D	EPA 3005A	676716	EPA 6020B	677023
92583955026	FB-6	EPA 3005A	676716	EPA 6020B	677023
92583955027	DUP-6	EPA 3005A	676716	EPA 6020B	677023
92583955001	B-63	EPA 7470A	676525	EPA 7470A	676704
92583955002	B-77	EPA 7470A	676525	EPA 7470A	676704
92583955003	B-109D	EPA 7470A	676525	EPA 7470A	676704
92583955004	B-115D	EPA 7470A	676525	EPA 7470A	676704
92583955005	B-120D	EPA 7470A	676525	EPA 7470A	676704
92583955006	EB-2	EPA 7470A	676525	EPA 7470A	676704
92583955007	B-83	EPA 7470A	676525	EPA 7470A	676704
92583955008	EB-3	EPA 7470A	676525	EPA 7470A	676704
92583955009	B-104D	EPA 7470A	676525	EPA 7470A	676704
92583955010	B-107D	EPA 7470A	676525	EPA 7470A	676704
92583955011	B-108D	EPA 7470A	676525	EPA 7470A	676704
92583955012	B-111D	EPA 7470A	676525	EPA 7470A	676704
92583955013	B-66	EPA 7470A	676525	EPA 7470A	676704
92583955014	B-82	EPA 7470A	676525	EPA 7470A	676704
92583955015	B-106D	EPA 7470A	676525	EPA 7470A	676704
92583955016	EB-5	EPA 7470A	676525	EPA 7470A	676704
92583955017	B-92	EPA 7470A	676529	EPA 7470A	676769
92583955018	B-93	EPA 7470A	676529	EPA 7470A	676769

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583955019	B-97	EPA 7470A	676529	EPA 7470A	676769
92583955020	B-98	EPA 7470A	676529	EPA 7470A	676769
92583955021	B-101D	EPA 7470A	676529	EPA 7470A	676769
92583955022	EB-6	EPA 7470A	676529	EPA 7470A	676769
92583955023	B-56	EPA 7470A	676529	EPA 7470A	676769
92583955024	B-88	EPA 7470A	676529	EPA 7470A	676769
92583955025	B-102D	EPA 7470A	676529	EPA 7470A	676769
92583955026	FB-6	EPA 7470A	676529	EPA 7470A	676769
92583955027	DUP-6	EPA 7470A	676529	EPA 7470A	676769
92583955001	B-63	SM 2540C-2015	674001		
92583955002	B-77	SM 2540C-2015	674001		
92583955003	B-109D	SM 2540C-2015	674001		
92583955004	B-115D	SM 2540C-2015	674001		
92583955005	B-120D	SM 2540C-2015	674001		
92583955006	EB-2	SM 2540C-2015	674001		
92583955007	B-83	SM 2540C-2015	674255		
92583955008	EB-3	SM 2540C-2015	674255		
92583955009	B-104D	SM 2540C-2015	674255		
92583955010	B-107D	SM 2540C-2015	674255		
92583955011	B-108D	SM 2540C-2015	674961		
92583955012	B-111D	SM 2540C-2015	674961		
92583955013	B-66	SM 2540C-2015	675199		
92583955014	B-82	SM 2540C-2015	675199		
92583955015	B-106D	SM 2540C-2015	675199		
92583955016	EB-5	SM 2540C-2015	675199		
92583955017	B-92	SM 2540C-2015	675202		
92583955018	B-93	SM 2540C-2015	675202		
92583955019	B-97	SM 2540C-2015	675202		
92583955020	B-98	SM 2540C-2015	675202		
92583955021	B-101D	SM 2540C-2015	675522		
92583955022	EB-6	SM 2540C-2015	675522		
92583955023	B-56	SM 2540C-2015	675783		
92583955024	B-88	SM 2540C-2015	675783		
92583955025	B-102D	SM 2540C-2015	675783		
92583955026	FB-6	SM 2540C-2015	675783		
92583955027	DUP-6	SM 2540C-2015	675783		
92583955001	B-63	SM 2320B	795302		
92583955002	B-77	SM 2320B	795302		
92583955003	B-109D	SM 2320B	795302		
92583955004	B-115D	SM 2320B	795372		
92583955005	B-120D	SM 2320B	795372		
92583955006	EB-2	SM 2320B	795372		
92583955007	B-83	SM 2320B	795372		
92583955008	EB-3	SM 2320B	795372		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2, 3/4 ASSESS.

Pace Project No.: 92583955

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583955009	B-104D	SM 2320B	795662		
92583955010	B-107D	SM 2320B	795662		
92583955011	B-108D	SM 2320B	795662		
92583955012	B-111D	SM 2320B	795662		
92583955013	B-66	SM 2320B	796618		
92583955014	B-82	SM 2320B	796618		
92583955015	B-106D	SM 2320B	796618		
92583955016	EB-5	SM 2320B	796618		
92583955017	B-92	SM 2320B	796924		
92583955018	B-93	SM 2320B	796924		
92583955019	B-97	SM 2320B	796925		
92583955020	B-98	SM 2320B	796922		
92583955021	B-101D	SM 2320B	796922		
92583955022	EB-6	SM 2320B	796922		
92583955023	B-56	SM 2320B	796925		
92583955024	B-88	SM 2320B	796925		
92583955025	B-102D	SM 2320B	796925		
92583955026	FB-6	SM 2320B	796925		
92583955027	DUP-6	SM 2320B	797671		
92583955001	B-63	EPA 300.0 Rev 2.1 1993	673554		
92583955002	B-77	EPA 300.0 Rev 2.1 1993	673554		
92583955003	B-109D	EPA 300.0 Rev 2.1 1993	673554		
92583955004	B-115D	EPA 300.0 Rev 2.1 1993	673554		
92583955005	B-120D	EPA 300.0 Rev 2.1 1993	673554		
92583955006	EB-2	EPA 300.0 Rev 2.1 1993	673554		
92583955007	B-83	EPA 300.0 Rev 2.1 1993	673554		
92583955008	EB-3	EPA 300.0 Rev 2.1 1993	673554		
92583955009	B-104D	EPA 300.0 Rev 2.1 1993	673904		
92583955010	B-107D	EPA 300.0 Rev 2.1 1993	673904		
92583955011	B-108D	EPA 300.0 Rev 2.1 1993	673904		
92583955012	B-111D	EPA 300.0 Rev 2.1 1993	673904		
92583955013	B-66	EPA 300.0 Rev 2.1 1993	674220		
92583955014	B-82	EPA 300.0 Rev 2.1 1993	674220		
92583955015	B-106D	EPA 300.0 Rev 2.1 1993	674220		
92583955016	EB-5	EPA 300.0 Rev 2.1 1993	674220		
92583955017	B-92	EPA 300.0 Rev 2.1 1993	674479		
92583955018	B-93	EPA 300.0 Rev 2.1 1993	674479		
92583955019	B-97	EPA 300.0 Rev 2.1 1993	674479		
92583955020	B-98	EPA 300.0 Rev 2.1 1993	674479		
92583955021	B-101D	EPA 300.0 Rev 2.1 1993	674479		
92583955022	EB-6	EPA 300.0 Rev 2.1 1993	674479		
92583955023	B-56	EPA 300.0 Rev 2.1 1993	675484		
92583955024	B-88	EPA 300.0 Rev 2.1 1993	675484		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2, 3/4 ASSESS.  
Pace Project No.: 92583955

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583955025	B-102D	EPA 300.0 Rev 2.1 1993	675484		
92583955026	FB-6	EPA 300.0 Rev 2.1 1993	675484		
92583955027	DUP-6	EPA 300.0 Rev 2.1 1993	675484		

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Document Name:  
 Sample Collection Upon Receipt (MCM)  
 Document No:  
 F-004-02-003 Rev 06

Document Number: November 13, 2018  
 Page 1 of 2  
 Having Authority:  
 Pesticide Control Division

Laboratory receiving samples:

Adrienne  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Company Name:  
 (Print Name)

Client Name:  
 Carolina  Duke  UPS  USGS  Other  Other  Other

W0#: 92583955



Country (Self Reported)  Yes  No Is it a test?  Yes  No

24 hr/through person responsible contact: 12/1/18

Shipping Method:  Bubble Wrap  Hard Box  Other  Other

Molecular Thaw Fragment?  Yes  No  None

Thermometer: 0.8 0.2 0.2

Cooler Temp: 3.7 Correction Factor: ± 0.2

Temp should be above freezing temp?  Yes  No  None

Cooler Temp Corrected (°C) 3.9

USDA Registered?  Yes  No

Do samples originate in a state and are being shipped to the United States?  Yes  No

Chain of Custody Paper?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	1
Sample(s) used in the field?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	1
Short Hold Time Analysis (30 min)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	1
Is it a test? (Self Reported)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	1
Sufficient amount?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	1
Correct forms used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	1
Field Container Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	1
Container(s) used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	1
Disposal/Analysis & Storage/Field/Storage?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	1
Sample Label Marked (MCM)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	1
Analysis, Date/Time/ID/Analysis/Matrix	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	1
Field Temp in °F/°C/°F/°C?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> NA	10
Temp Self Reported?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> NA	10
Temp Self Reported Self Reported?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> NA	10

Comments/Issues/Other Comments: \_\_\_\_\_

Collect with a clean container?  Yes  No

Person contacted: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager (Self Reported): \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager (Self Reported): \_\_\_\_\_ Date: \_\_\_\_\_

CHAIN-OF-CUSTODY / Analytical Request Document  
This document is the property of the FBI Laboratory. All information contained herein is for official use only.

Case Information		Requester Information		Laboratory Information	
Case No.	100-100-270	Requester Name	FBI Laboratory	Request Date	10/15/10
Case Title	...	Requester Title	...	Request Location	...
Requester Agency	...	Requester Address	...	Requester Phone	...
Requester Email	...	Requester Fax	...	Requester Filing	...
<p><b>Sample ID</b>            Description of Sample            Quantity of Sample            Container Description</p>					
1	...	...	...	...	...
2	...	...	...	...	...
3	...	...	...	...	...
4	...	...	...	...	...
5	...	...	...	...	...
6	...	...	...	...	...
7	...	...	...	...	...
8	...	...	...	...	...
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14	...	...	...	...	...
15	...	...	...	...	...
16	...	...	...	...	...
17	...	...	...	...	...
18	...	...	...	...	...
19	...	...	...	...	...
20	...	...	...	...	...
21	...	...	...	...	...
22	...	...	...	...	...
23	...	...	...	...	...
24	...	...	...	...	...
25	...	...	...	...	...
26	...	...	...	...	...
27	...	...	...	...	...
28	...	...	...	...	...
29	...	...	...	...	...
30	...	...	...	...	...
31	...	...	...	...	...
32	...	...	...	...	...
33	...	...	...	...	...
34	...	...	...	...	...
35	...	...	...	...	...
36	...	...	...	...	...
37	...	...	...	...	...
38	...	...	...	...	...
39	...	...	...	...	...
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41	...	...	...	...	...
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49	...	...	...	...	...
50	...	...	...	...	...

*Handwritten notes:* ...

*Handwritten notes:* ...

...



Document Name  
 Sample Condition Update Request (SQR)  
 Document No  
 P-CAR-01-013-Rev. 04

Document Revised: November 15, 2011  
 Page 1 of 3  
 Strong Acid Needs  
 PCC Customer Order 01/14

Laboratory receiving samples:

Ashville  Cary  Greenwood  Huntersville  Raleigh  Mechanical Pa  Atlanta  Kernersville

Sample ID  
 Lab Project

Client Name

Project #

**NOA: 92583955**

Sample  
 Comments

Unit: LAB Filter  
 Price:  Unit:  Other:

Quantity

PH: 990

Due Date: 02/04/22

CLIENT: SA-CR Power

Correct Seal Treatment

Yes  No  Seal Intact?  Yes  No

Date/Time of Seal Treatment: 02/07/22

Packing Material

Bubble Wrap  Bubble Bags  None  Other

Biological Time Point

Thermometer

1  2  3  4  5  6  7  8  9  10

01/03/22

Cooler Temp

4.0 Correction Factor: 0.0  
 Actual Temp: 4.0

Temp should be above freezing (0°C)

Is temp below freezing?  Yes  No

Cooler Temp Corrected (°C)

4.0

NOA Requested (Y/N):  Yes  No

Old sample ID (if any) in a previous run with the same label: CA 11, 01/01/2022

Old sample ID (if any) in a previous run with the same label:  Yes  No

Comment/Discrepancy

Check of Custody Protocol	Y	N	NA	1
Sample labeled with correct time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Label held from analysis (if not)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Batch File attached from equipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Custodial Witness?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Correct Container Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Appropriate Label?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Container sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Delivered analysis Sample Info Correct?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Sample Label Correct (Y/N)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1

Submit Date/Time (YYYYMMDD HH:MM)

My signature is valid only if I have signed the original document

The Blank Labels have been prepared

COMMENT/REASON FOR DISCREPANCY

Are Data Reported?  Yes  No

CLIENT USE ONLY (DO NOT WRITE)

Lab Project File Name

Project Collected

Date/Time

Project Manager/Client Review:

Date

Project Manager/SRV Review:

Date

**CHAIN OF CUSTODY - Analytical Request Document**  
 The following details are (1) the procedure of request and (2) the analytical process.

**Section 1: Request Information**

Request Number: 1234567      Request Date: 10/25/2023

Requester: John Doe      Requested By: John Doe

Requesting Agency: Police Department      Requested For: Police Department

Requesting Officer: Officer Smith      Requested For: Officer Smith

Requesting Station: 12345      Requested For: 12345

Requesting Shift: Day      Requested For: Day

Requesting Time: 10:00 AM      Requested For: 10:00 AM

Requesting Location: 12345      Requested For: 12345

Requesting Contact: 123-456-7890      Requested For: 123-456-7890

Requesting Email: john.doe@pd.com      Requested For: john.doe@pd.com

**Section 2: Sample Information**

Sample ID: 1234567

Sample Description: 100 mg of white powder

Sample Quantity: 100 mg

Sample Container: 100 mg vial

Sample Location: 12345

Sample Date: 10/25/2023

Sample Time: 10:00 AM

Sample Location: 12345

Sample Contact: 123-456-7890

Sample Email: john.doe@pd.com

Step	Date	Time	Location	Personnel	Description	Sample ID		Sample Description		Sample Quantity		Sample Container		Sample Location		Sample Date		Sample Time		Sample Location		Sample Contact		Sample Email	
						Initials	Signature	Initials	Signature	Initials	Signature	Initials	Signature	Initials	Signature	Initials	Signature	Initials	Signature	Initials	Signature	Initials	Signature	Initials	Signature
1	10/25/2023	10:00 AM	12345	Officer Smith	Request received	1234567	1234567	100 mg	100 mg	100 mg	100 mg	100 mg vial	100 mg vial	12345	12345	12345	12345	10:00 AM	10:00 AM	12345	12345	123-456-7890	123-456-7890	john.doe@pd.com	john.doe@pd.com
2	10/25/2023	10:05 AM	12345	Officer Smith	Sample received	1234567	1234567	100 mg	100 mg	100 mg	100 mg	100 mg vial	100 mg vial	12345	12345	12345	12345	10:05 AM	10:05 AM	12345	12345	123-456-7890	123-456-7890	john.doe@pd.com	john.doe@pd.com
3	10/25/2023	10:10 AM	12345	Officer Smith	Sample analyzed	1234567	1234567	100 mg	100 mg	100 mg	100 mg	100 mg vial	100 mg vial	12345	12345	12345	12345	10:10 AM	10:10 AM	12345	12345	123-456-7890	123-456-7890	john.doe@pd.com	john.doe@pd.com
4	10/25/2023	10:15 AM	12345	Officer Smith	Sample packaged	1234567	1234567	100 mg	100 mg	100 mg	100 mg	100 mg vial	100 mg vial	12345	12345	12345	12345	10:15 AM	10:15 AM	12345	12345	123-456-7890	123-456-7890	john.doe@pd.com	john.doe@pd.com
5	10/25/2023	10:20 AM	12345	Officer Smith	Sample shipped	1234567	1234567	100 mg	100 mg	100 mg	100 mg	100 mg vial	100 mg vial	12345	12345	12345	12345	10:20 AM	10:20 AM	12345	12345	123-456-7890	123-456-7890	john.doe@pd.com	john.doe@pd.com

*John Doe*  
 Requester Signature  
 Date: 10/25/2023



Document Title  
 Sample Description: Lipon Airport (SCL-8)  
 Client: PA-000000  
 FACILITY: OFF-Map 04

Document Revised: November 13, 2013  
 Page: 1 of 2  
 Issuing Authority:  
 Pace Analytical Quality Control

Laboratory receiving samples:

Ashcroft  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Location:  
100-000000

Client Name:  
G.A. Power

Project # **WO# : 92583955**

Container:  
 Commercial

Location:  
 Air  Soils  Water  Other

MR. NPG Date Order: 02/04/22  
 CLIENT: G.A. Power

Container Identification:  Yes  No

Date Analyzed: 11/21/22  
 LPH

Packing Material:  Casson Wrap  Bubble Bags  Other  Other  
 Thermometer:  Yes  No

Biological Preservation:  Yes  No

Cooler Temp: 3.0  
 Collection Filter: 4.0  
 Addition: 3.1

Temp should be above freezing to 5°C  
 Sampled out of temp range (sample or cooler temp) not frozen

Do not Sample Corrosive (HCl)

USDA Regulated Soil:  Yes, water samples

Do not collect samples in a container or zone within the United States (CA, HI, IL, IN, OH, PA, RI, VA)

Do sample single lot from a single source (composites), including non-lot from lot  Yes  No

Test	Yes	No	Other	1	2	3	4	5	6
Amount of Material Sampled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Sampled Above Minimum Test Limit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Sample Held From Analysis (30 Days)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>						
Amount Held Beyond Test Requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Exceeded Sample?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Exceeded Container Label?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Exceeded Sample?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Exceeded Initial Sample Batch Report?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
Sample Label Number Correct?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Included Extra Chemical Analysis Matrix	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Final Report OK (No Discrepancies)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
Final Report OK (No Discrepancies)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
Final Report OK (No Discrepancies)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						

RECOVER TO SAMPLE DISCREPANCY

FINAL DATA REVIEWED:  Yes  No

DATE OF SPEC COLLECTION

CUSTOMER CONTACT INFORMATION

FAULT REPORTED

DATE/TIME

Project Manager SCURT Review

DATE

Project Manager SW Review

DATE

CHAIN-OF-CUSTODY / Analytical Request Document  
 The Chain-of-Custody Field Protocol is a shared field protocol between all units.

Page 1 of 1

Section 1: Sample Information		Section 2: Chain of Custody		Section 3: Laboratory Information	
Item #	Description	Collector	Date/Time	Lab #	Notes
1	SAMPLE ID Case # 12345 Date: 10/15/12	John Doe	10/15/12 10:00	101	
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

Signature: *[Handwritten Signature]*  
 Date: 10/15/12



Document Number  
Sample Condition Upon Receipt (SCUR)  
 Document No.  
1-CUR-ES-013-Rev 01

Document Revised November 11, 2011  
 Page 2 of 7  
 Using Number:  
 Date Current Copy Used:

Laboratory receiving samples:

Athens  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville



Client Name:  
GA Power

Project # **WO# : 92583955**

At: NRG Due Date 09/04/22  
 Client: GA-VA Power

Count 1  1  1  1

Condition Upon Receipt  Yes  Seal Intact  Yes  No

Date Analytical Laboratory Contacted 08/11/22

Packing Material  Bubble wrap  Bubble bag  None  Other

Biological Hazard  Yes  No

Temperature 34  34  34  34

Cooler Temp: 1.0  1.0  1.0  1.0

Temp should be above freezing to IFC  
 Temp out of range means sample is not cooling to temp required

Cooler Temp Corrected (CCT)

USDA Regulated Mail  Yes, water sample

Do samples require a special dry pack with the correct label (A, B, C) (check appropriate)

Do samples require a special shipping container (check appropriate)

Comments/Discrepancy

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Applicable	
Sample Arrived at the cool Temp?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Applicable	
Short hold Time Analysis (12 hr.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable	
Auto Seal Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable	
Seal Intact Upon Receipt	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Applicable	
Original Container Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Applicable	
Field Container Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Applicable	
Emergency Contact	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Applicable	
Original Container Sample Field Returned?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Applicable	
Sample about 100°C?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Applicable	
Includes Date/Time/ID Number	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Applicable	
Temperature of 100°C or higher?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Applicable	
Top Seal Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Applicable	
Any Other Special Seal Features?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Applicable	

Comments/Discrepancy  Yes  No

Number of total containers

Person for IFC

Project Manager (I/C) \_\_\_\_\_ Date: \_\_\_\_\_  
 Project Manager (S/C) \_\_\_\_\_ Date: \_\_\_\_\_

*Handwritten mark*

**CLAIM OF COPYRIGHT / Analytical Request Document**  
 The Copyright/Company is a Trade Secret/Confidential or otherwise legally protected invention

Section 1: Product/Service Information  
 Section 2: Analytical Request

Product Name: \_\_\_\_\_  
 Analytical Request: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Requested By: \_\_\_\_\_  
 Requested For: \_\_\_\_\_

Item #	Item Name	Quantity	Unit	Material	Lot #	Expiry	Notes
1	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...
32	...	...	...	...	...	...	...
33	...	...	...	...	...	...	...
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35	...	...	...	...	...	...	...
36	...	...	...	...	...	...	...
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44	...	...	...	...	...	...	...
45	...	...	...	...	...	...	...
46	...	...	...	...	...	...	...
47	...	...	...	...	...	...	...
48	...	...	...	...	...	...	...
49	...	...	...	...	...	...	...
50	...	...	...	...	...	...	...

Handwritten notes and signatures at the bottom of the page.





Laboratory receiving samples:

Ashwell  Eden  Greenwood  Hartselle  Raleigh  Marietta  Atlanta  Kernersville

Client Name: **GA-CG**

Client Name: *GA-CG*

WOP#: 92583955

Project: PH: MNG Due Date: 02/04/22

Country:  Commercial  Public  Other

CLIENT: GA-CG Power

Current Installation:  New  Existing  Other

Division or former Division Code: *1-95-3*

Building Material:  Brick/Block  Concrete  Other

Biological Facility (Project):  Yes  No

Thermography:  Yes  No

Cover Temp: *2.8* Comparison Temp: *2.1*

Temp should be above freezing (40°F)  
 Sample will be above freezing to be used in laboratory per the  
 contract.

Facility Temp Controlled (°C): *1.9*

USDA Regulatory Code:  Yes  No

Substances regulated under Superfund (inorganic, organic, asbestos, lead, PCBs, etc.)  
 Yes  No  
 Comments/Other Agency

City/State/Zip of Facility (if different than the United States): GA, NC, or SC (check one)

General Building Project?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Industrial/Manufacturing/Power Plant?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Short-Term Rental Analysis (STR)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1
Asbestos Abatement Project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1
Remediation Project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1
Control Contaminant?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1
Phase Contaminant?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1
Emergency Project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1
Outdated Material Samples Label/Event?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1
Sample Label Match/COI?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1

Use of Air Duct/Plenum/Attic/Manifold	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Handgun or other MVD (Mandatory)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1
High Voltage Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1
Fire Alarm System (See 4.1.1)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1

Comments (Name, Address, Agency)

Total Data Reported:  Yes  No

Signature of Client Representative

Signature of Client Representative

Person contacted: \_\_\_\_\_

Contact:

WOP#: 92583955

PH: MNG Due Date: 02/04/22  
 CLIENT: GA-CG Power

Project Manager SCUR Review:

Project Manager MRF Review:

USA

2

CHAIN OF CUSTODY / Analytical Request Document  
The Chain of Custody (COC) is a document that is used to track the custody of evidence from the time it is collected to the time it is analyzed.

Case No. \_\_\_\_\_

Requester Name \_\_\_\_\_

Requester Title \_\_\_\_\_

Requester Agency \_\_\_\_\_

Requester Address \_\_\_\_\_

Requester Phone \_\_\_\_\_

Requester Email \_\_\_\_\_

Requester Signature \_\_\_\_\_

Requester Date \_\_\_\_\_

Requester Title \_\_\_\_\_

Requester Agency \_\_\_\_\_

Requester Address \_\_\_\_\_

Requester Phone \_\_\_\_\_

Requester Email \_\_\_\_\_

Requester Signature \_\_\_\_\_

Requester Date \_\_\_\_\_

Item #	Description	Quantity	Unit	Location	Date/Time	Signature	Title	Agency	Remarks
1	SAMPLE NO								
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

Requester Name: John Doe

Requester Title: Officer

Requester Agency: Police Department

Requester Address: 123 Main St

Requester Phone: 555-1234

Requester Email: john.doe@pd.com

Requester Signature: \_\_\_\_\_

Requester Date: 10/26/2023

Requester Name: John Doe

Requester Title: Officer

Requester Agency: Police Department

Requester Address: 123 Main St

Requester Phone: 555-1234

Requester Email: john.doe@pd.com

Requester Signature: \_\_\_\_\_

Requester Date: 10/26/2023



March 08, 2022

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

RE: Project: MCDONOUGH AP-2, 3/4 ASSESS RAD  
Pace Project No.: 92583951

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between January 21, 2022 and January 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 - Greensburg

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

Sincerely,

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

Enclosures

cc: Stephen Benda  
Anna Bottum, ERM  
Andrea Brazell, ERM  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power  
Kristen Jurinko  
J. Shelby Mobley  
Charles Norton, Southern Company  
Ms. Lauren Petty, Southern Company  
Dawn Prell, Golder Associates Inc.  
Tim Richards, Golder Associates - Atlanta  
Lacy Smith, ERM

Caitlin Tillema, ERM  
Christine Weaver, ERM



### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.



## CERTIFICATIONS

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD  
Pace Project No.: 92583951

---

### 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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## REPORT OF LABORATORY ANALYSIS

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**SAMPLE SUMMARY**

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92583951001	B-63	Water	01/20/22 11:59	01/21/22 15:32
92583951002	B-77	Water	01/20/22 14:12	01/21/22 15:32
92583951003	B-109D	Water	01/20/22 12:58	01/21/22 15:32
92583951004	B-115D	Water	01/20/22 16:32	01/21/22 15:32
92583951005	B-120D	Water	01/20/22 15:43	01/21/22 15:32
92583951006	EB-2	Water	01/20/22 16:55	01/21/22 15:32
92583951007	B-83	Water	01/21/22 12:02	01/21/22 15:32
92583951008	EB-3	Water	01/21/22 12:45	01/21/22 15:32
92583951009	B-104D	Water	01/24/22 12:56	01/25/22 09:04
92583951010	B-107D	Water	01/24/22 09:55	01/25/22 09:04
92583951011	B-108D	Water	01/24/22 13:10	01/25/22 09:04
92583951012	B-111D	Water	01/24/22 11:56	01/25/22 09:04
92583951013	B-66	Water	01/25/22 12:14	01/26/22 08:51
92583951014	B-82	Water	01/25/22 13:43	01/26/22 08:51
92583951015	B-106D	Water	01/25/22 14:33	01/26/22 08:51
92583951016	EB-5	Water	01/25/22 16:20	01/26/22 08:51
92583951017	B-92	Water	01/26/22 12:03	01/27/22 08:50
92583951018	B-93	Water	01/26/22 10:55	01/27/22 08:50
92583951019	B-97	Water	01/26/22 14:22	01/27/22 08:50
92583951020	B-98	Water	01/26/22 13:21	01/27/22 08:50
92583951021	B-101D	Water	01/26/22 13:50	01/27/22 08:50
92583951022	EB-6	Water	01/26/22 15:20	01/27/22 08:50
92583951023	B-56	Water	01/27/22 12:40	01/28/22 15:32
92583951024	B-88	Water	01/27/22 13:15	01/28/22 15:32
92583951025	B-102D	Water	01/27/22 16:25	01/28/22 15:32
92583951026	FB-6	Water	01/27/22 14:00	01/28/22 15:32
92583951027	DUP-6	Water	01/27/22 00:00	01/28/22 15:32

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583951001	B-63	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951002	B-77	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951003	B-109D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951004	B-115D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951005	B-120D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951006	EB-2	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951007	B-83	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951008	EB-3	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951009	B-104D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951010	B-107D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951011	B-108D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951012	B-111D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583951013	B-66	EPA 9315	JJY	1	PASI-PA

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583951014	B-82	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583951015	B-106D	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583951016	EB-5	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583951017	B-92	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583951018	B-93	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583951019	B-97	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583951020	B-98	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583951021	B-101D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583951022	EB-6	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
92583951023	B-56	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92583951024	B-88	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92583951025	B-102D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583951026	FB-6	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92583951027	DUP-6	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-63</b> <b>Lab ID: 92583951001</b> Collected: 01/20/22 11:59      Received: 01/21/22 15:32      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.455 ± 0.231 (0.314)</b> <b>C:93% T:NA</b>	pCi/L	02/16/22 08:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.391 ± 0.575 (1.24)</b> <b>C:71% T:84%</b>	pCi/L	02/14/22 16:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.846 ± 0.806 (1.55)</b>	pCi/L	02/21/22 10:08	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-77</b> <b>Lab ID: 92583951002</b> Collected: 01/20/22 14:12      Received: 01/21/22 15:32      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.553 ± 0.265 (0.385)</b> <b>C:95% T:NA</b>	pCi/L	02/16/22 09:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.367 ± 0.267 (0.514)</b> <b>C:96% T:80%</b>	pCi/L	02/18/22 11:00	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.920 ± 0.532 (0.899)</b>	pCi/L	02/21/22 10:08	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

**Sample: B-109D**      **Lab ID: 92583951003**      Collected: 01/20/22 12:58      Received: 01/21/22 15:32      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	<b>6.82 ± 1.29 (0.432)</b> <b>C:73% T:NA</b>	pCi/L	02/16/22 09:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>9.40 ± 1.87 (0.667)</b> <b>C:92% T:72%</b>	pCi/L	02/18/22 11:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>16.2 ± 3.16 (1.10)</b>	pCi/L	02/21/22 10:08	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

**Sample: B-115D**      **Lab ID: 92583951004**      Collected: 01/20/22 16:32      Received: 01/21/22 15:32      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	<b>3.68 ± 0.769 (0.318)</b> <b>C:95% T:NA</b>	pCi/L	02/16/22 09:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>6.18 ± 1.45 (1.07)</b> <b>C:78% T:79%</b>	pCi/L	02/14/22 19:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>9.86 ± 2.22 (1.39)</b>	pCi/L	02/21/22 10:08	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

**Sample: B-120D**      **Lab ID: 92583951005**      Collected: 01/20/22 15:43      Received: 01/21/22 15:32      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	<b>0.914 ± 0.343 (0.414)</b> <b>C:88% T:NA</b>	pCi/L	02/16/22 09:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.300 ± 0.524 (1.14)</b> <b>C:83% T:80%</b>	pCi/L	02/14/22 19:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.21 ± 0.867 (1.55)</b>	pCi/L	02/21/22 10:08	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: EB-2</b> <b>Lab ID: 92583951006</b> Collected: 01/20/22 16:55      Received: 01/21/22 15:32      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0209 ± 0.157 (0.399)</b> <b>C:96% T:NA</b>	pCi/L	02/16/22 09:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>-0.104 ± 0.633 (1.48)</b> <b>C:76% T:84%</b>	pCi/L	02/14/22 20:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.0209 ± 0.790 (1.88)</b>	pCi/L	02/21/22 10:08	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-83</b> <b>Lab ID: 92583951007</b> Collected: 01/21/22 12:02      Received: 01/21/22 15:32      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>-0.0529 ± 0.165 (0.463)</b> <b>C:85% T:NA</b>	pCi/L	02/16/22 09:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.549 ± 0.528 (1.09)</b> <b>C:76% T:85%</b>	pCi/L	02/14/22 18:36	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.549 ± 0.693 (1.55)</b>	pCi/L	02/21/22 10:08	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: EB-3</b> <b>Lab ID: 92583951008</b> Collected: 01/21/22 12:45      Received: 01/21/22 15:32      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>-0.00683 ± 0.126 (0.345)</b> <b>C:93% T:NA</b>	pCi/L	02/16/22 09:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.539 ± 0.581 (1.21)</b> <b>C:68% T:80%</b>	pCi/L	02/14/22 18:37	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.539 ± 0.707 (1.56)</b>	pCi/L	02/21/22 10:08	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

**Sample: B-104D**      **Lab ID: 92583951009**      Collected: 01/24/22 12:56      Received: 01/25/22 09:04      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	<b>3.53 ± 0.733 (0.284)</b> <b>C:88% T:NA</b>	pCi/L	02/16/22 10:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>8.37 ± 1.79 (1.07)</b> <b>C:72% T:83%</b>	pCi/L	02/14/22 17:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>11.9 ± 2.52 (1.35)</b>	pCi/L	02/21/22 10:08	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

**Sample: B-107D**      **Lab ID: 92583951010**      Collected: 01/24/22 09:55      Received: 01/25/22 09:04      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	<b>0.446 ± 0.226 (0.322)</b> <b>C:93% T:NA</b>	pCi/L	02/16/22 10:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.691 ± 0.780 (1.64)</b> <b>C:75% T:80%</b>	pCi/L	02/14/22 20:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.14 ± 1.01 (1.96)</b>	pCi/L	02/21/22 10:08	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

**Sample: B-108D**      **Lab ID: 92583951011**      Collected: 01/24/22 13:10      Received: 01/25/22 09:04      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	<b>0.812 ± 0.334 (0.467)</b> <b>C:91% T:NA</b>	pCi/L	02/16/22 10:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>-0.262 ± 0.425 (1.05)</b> <b>C:79% T:83%</b>	pCi/L	02/14/22 18:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.812 ± 0.759 (1.52)</b>	pCi/L	02/21/22 10:08	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-111D</b> <b>Lab ID: 92583951012</b> Collected: 01/24/22 11:56      Received: 01/25/22 09:04      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>3.19 ± 0.677 (0.254)</b> <b>C:90% T:NA</b>	pCi/L	02/16/22 13:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>2.49 ± 0.833 (1.20)</b> <b>C:76% T:87%</b>	pCi/L	02/14/22 18:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>5.68 ± 1.51 (1.45)</b>	pCi/L	02/21/22 10:08	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-66</b> <b>Lab ID: 92583951013</b> Collected: 01/25/22 12:14      Received: 01/26/22 08:51      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>-0.0327 ± 0.118 (0.343)</b> <b>C:92% T:NA</b>	pCi/L	02/16/22 10:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>-0.0963 ± 0.480 (1.14)</b> <b>C:77% T:79%</b>	pCi/L	02/14/22 18:56	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.000 ± 0.598 (1.48)</b>	pCi/L	02/21/22 10:08	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

**Sample: B-82**      **Lab ID: 92583951014**      Collected: 01/25/22 13:43      Received: 01/26/22 08:51      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	<b>0.209 ± 0.169 (0.299)</b> <b>C:93% T:NA</b>	pCi/L	02/16/22 10:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.121 ± 0.515 (1.18)</b> <b>C:75% T:83%</b>	pCi/L	02/14/22 20:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.330 ± 0.684 (1.48)</b>	pCi/L	02/21/22 10:08	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-106D</b> <b>Lab ID: 92583951015</b> Collected: 01/25/22 14:33      Received: 01/26/22 08:51      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>-0.0175 ± 0.100 (0.302)</b> <b>C:82% T:NA</b>	pCi/L	02/16/22 10:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.454 ± 0.519 (1.08)</b> <b>C:77% T:85%</b>	pCi/L	02/14/22 20:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.454 ± 0.619 (1.38)</b>	pCi/L	02/21/22 10:08	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: EB-5</b> <b>Lab ID: 92583951016</b> Collected: 01/25/22 16:20      Received: 01/26/22 08:51      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0917 ± 0.107 (0.207)</b> <b>C:98% T:NA</b>	pCi/L	02/16/22 10:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>1.03 ± 0.621 (1.13)</b> <b>C:75% T:85%</b>	pCi/L	02/14/22 20:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.12 ± 0.728 (1.34)</b>	pCi/L	02/21/22 10:08	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-92</b> <b>Lab ID: 92583951017</b> Collected: 01/26/22 12:03      Received: 01/27/22 08:50      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.415 ± 0.205 (0.265)</b> <b>C:94% T:NA</b>	pCi/L	02/16/22 13:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.857 ± 0.661 (1.30)</b> <b>C:78% T:81%</b>	pCi/L	02/14/22 20:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.27 ± 0.866 (1.57)</b>	pCi/L	02/21/22 21:19	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

**Sample: B-93**      **Lab ID: 92583951018**      Collected: 01/26/22 10:55      Received: 01/27/22 08:50      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.240 ± 0.167 (0.272)</b> <b>C:98% T:NA</b>	pCi/L	02/16/22 13:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.518 ± 0.577 (1.20)</b> <b>C:77% T:82%</b>	pCi/L	02/14/22 20:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.758 ± 0.744 (1.47)</b>	pCi/L	02/21/22 21:19	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-97</b> <b>Lab ID: 92583951019</b> Collected: 01/26/22 14:22      Received: 01/27/22 08:50      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.566 ± 0.236 (0.253)</b> <b>C:95% T:NA</b>	pCi/L	02/16/22 13:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.899 ± 0.637 (1.23)</b> <b>C:78% T:84%</b>	pCi/L	02/14/22 20:49	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.47 ± 0.873 (1.48)</b>	pCi/L	02/21/22 21:20	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

**Sample: B-98**      **Lab ID: 92583951020**      Collected: 01/26/22 13:21      Received: 01/27/22 08:50      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.520 ± 0.234 (0.259)</b> <b>C:86% T:NA</b>	pCi/L	02/16/22 13:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>-2.35 ± 3.33 (8.44)</b> <b>C:80% T:84%</b>	pCi/L	02/14/22 20:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.520 ± 3.56 (8.70)</b>	pCi/L	02/21/22 21:20	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

**Sample: B-101D**      **Lab ID: 92583951021**      Collected: 01/26/22 13:50      Received: 01/27/22 08:50      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.422 ± 0.212 (0.267)</b> <b>C:84% T:NA</b>	pCi/L	02/16/22 13:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.790 ± 0.409 (0.727)</b> <b>C:90% T:79%</b>	pCi/L	02/15/22 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.21 ± 0.621 (0.994)</b>	pCi/L	02/21/22 21:20	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: EB-6</b> <b>Lab ID: 92583951022</b> Collected: 01/26/22 15:20      Received: 01/27/22 08:50      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>-0.0321 ± 0.116 (0.336)</b> <b>C:95% T:NA</b>	pCi/L	02/16/22 13:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.597 ± 0.337 (0.607)</b> <b>C:90% T:83%</b>	pCi/L	02/15/22 15:28	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.597 ± 0.453 (0.943)</b>	pCi/L	02/21/22 21:20	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: B-56</b> <b>Lab ID: 92583951023</b> Collected: 01/27/22 12:40      Received: 01/28/22 15:32      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.306 ± 0.199 (0.328)</b> <b>C:88% T:NA</b>	pCi/L	02/28/22 09:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.525 ± 0.305 (0.531)</b> <b>C:77% T:85%</b>	pCi/L	03/04/22 10:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.831 ± 0.504 (0.859)</b>	pCi/L	03/06/22 21:18	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

**Sample: B-88**      **Lab ID: 92583951024**      Collected: 01/27/22 13:15      Received: 01/28/22 15:32      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	<b>0.584 ± 0.245 (0.266)</b> <b>C:85% T:NA</b>	pCi/L	02/28/22 09:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.593 ± 0.343 (0.624)</b> <b>C:84% T:86%</b>	pCi/L	03/04/22 10:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.18 ± 0.588 (0.890)</b>	pCi/L	03/06/22 21:18	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

**Sample: B-102D**      **Lab ID: 92583951025**      Collected: 01/27/22 16:25      Received: 01/28/22 15:32      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	<b>0.142 ± 0.128 (0.232)</b> <b>C:99% T:NA</b>	pCi/L	02/28/22 09:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.486 ± 0.367 (0.716)</b> <b>C:77% T:83%</b>	pCi/L	03/04/22 14:04	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.628 ± 0.495 (0.948)</b>	pCi/L	03/06/22 21:18	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: FB-6</b> <b>Lab ID: 92583951026</b> Collected: 01/27/22 14:00      Received: 01/28/22 15:32      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>-0.0275 ± 0.0628 (0.219)</b> <b>C:95% T:NA</b>	pCi/L	02/28/22 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>-0.0168 ± 0.303 (0.714)</b> <b>C:78% T:86%</b>	pCi/L	03/04/22 14:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.000 ± 0.366 (0.933)</b>	pCi/L	03/06/22 21:18	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DUP-6</b> <b>Lab ID: 92583951027</b> Collected: 01/27/22 00:00      Received: 01/28/22 15:32      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.301 ± 0.177 (0.268)</b> <b>C:99% T:NA</b>	pCi/L	02/28/22 09:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.461 ± 0.370 (0.734)</b> <b>C:75% T:88%</b>	pCi/L	03/04/22 14:04	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.762 ± 0.547 (1.00)</b>	pCi/L	03/06/22 21:18	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

QC Batch: 481463

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92583951009, 92583951010, 92583951011, 92583951012, 92583951013, 92583951014, 92583951015, 92583951016, 92583951017, 92583951018, 92583951019, 92583951020, 92583951021, 92583951022

METHOD BLANK: 2326512

Matrix: Water

Associated Lab Samples: 92583951009, 92583951010, 92583951011, 92583951012, 92583951013, 92583951014, 92583951015, 92583951016, 92583951017, 92583951018, 92583951019, 92583951020, 92583951021, 92583951022

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00174 ± 0.0889 (0.253) C:96% T:NA	pCi/L	02/16/22 10:30	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

QC Batch: 482065

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92583951021, 92583951022

METHOD BLANK: 2330297

Matrix: Water

Associated Lab Samples: 92583951021, 92583951022

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.298 ± 0.301 (0.619) C:86% T:84%	pCi/L	02/15/22 15:27	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

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QC Batch:	481462	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92583951001, 92583951002, 92583951003, 92583951004, 92583951005, 92583951006, 92583951007, 92583951008

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METHOD BLANK: 2326510 Matrix: Water

Associated Lab Samples: 92583951001, 92583951002, 92583951003, 92583951004, 92583951005, 92583951006, 92583951007, 92583951008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0222 ± 0.102 (0.264) C:95% T:NA	pCi/L	02/16/22 08:33	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

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QC Batch:	485931	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92583951023, 92583951024, 92583951025, 92583951026, 92583951027

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METHOD BLANK: 2349812 Matrix: Water

Associated Lab Samples: 92583951023, 92583951024, 92583951025, 92583951026, 92583951027

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0361 ± 0.104 (0.256) C:89% T:NA	pCi/L	02/28/22 09:14	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

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QC Batch:	482064	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92583951001, 92583951002, 92583951003, 92583951004, 92583951005, 92583951006, 92583951007, 92583951008, 92583951009, 92583951010, 92583951011, 92583951012, 92583951013, 92583951014, 92583951015, 92583951016, 92583951017, 92583951018, 92583951019, 92583951020

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METHOD BLANK:	2330296	Matrix:	Water
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Associated Lab Samples: 92583951001, 92583951002, 92583951003, 92583951004, 92583951005, 92583951006, 92583951007, 92583951008, 92583951009, 92583951010, 92583951011, 92583951012, 92583951013, 92583951014, 92583951015, 92583951016, 92583951017, 92583951018, 92583951019, 92583951020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.344 ± 0.287 (0.572) C:91% T:80%	pCi/L	02/18/22 11:00	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

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QC Batch:	486654	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92583951023, 92583951024, 92583951025, 92583951026, 92583951027

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METHOD BLANK: 2353485 Matrix: Water

Associated Lab Samples: 92583951023, 92583951024, 92583951025, 92583951026, 92583951027

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Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0646 ± 0.235 (0.535) C:84% T:93%	pCi/L	03/04/22 10:45	

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

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD

Pace Project No.: 92583951

---

### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD  
Pace Project No.: 92583951

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583951001	B-63	EPA 9315	481462		
92583951002	B-77	EPA 9315	481462		
92583951003	B-109D	EPA 9315	481462		
92583951004	B-115D	EPA 9315	481462		
92583951005	B-120D	EPA 9315	481462		
92583951006	EB-2	EPA 9315	481462		
92583951007	B-83	EPA 9315	481462		
92583951008	EB-3	EPA 9315	481462		
92583951009	B-104D	EPA 9315	481463		
92583951010	B-107D	EPA 9315	481463		
92583951011	B-108D	EPA 9315	481463		
92583951012	B-111D	EPA 9315	481463		
92583951013	B-66	EPA 9315	481463		
92583951014	B-82	EPA 9315	481463		
92583951015	B-106D	EPA 9315	481463		
92583951016	EB-5	EPA 9315	481463		
92583951017	B-92	EPA 9315	481463		
92583951018	B-93	EPA 9315	481463		
92583951019	B-97	EPA 9315	481463		
92583951020	B-98	EPA 9315	481463		
92583951021	B-101D	EPA 9315	481463		
92583951022	EB-6	EPA 9315	481463		
92583951023	B-56	EPA 9315	485931		
92583951024	B-88	EPA 9315	485931		
92583951025	B-102D	EPA 9315	485931		
92583951026	FB-6	EPA 9315	485931		
92583951027	DUP-6	EPA 9315	485931		
92583951001	B-63	EPA 9320	482064		
92583951002	B-77	EPA 9320	482064		
92583951003	B-109D	EPA 9320	482064		
92583951004	B-115D	EPA 9320	482064		
92583951005	B-120D	EPA 9320	482064		
92583951006	EB-2	EPA 9320	482064		
92583951007	B-83	EPA 9320	482064		
92583951008	EB-3	EPA 9320	482064		
92583951009	B-104D	EPA 9320	482064		
92583951010	B-107D	EPA 9320	482064		
92583951011	B-108D	EPA 9320	482064		
92583951012	B-111D	EPA 9320	482064		
92583951013	B-66	EPA 9320	482064		
92583951014	B-82	EPA 9320	482064		
92583951015	B-106D	EPA 9320	482064		
92583951016	EB-5	EPA 9320	482064		
92583951017	B-92	EPA 9320	482064		
92583951018	B-93	EPA 9320	482064		
92583951019	B-97	EPA 9320	482064		
92583951020	B-98	EPA 9320	482064		

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: MCDONOUGH AP-2, 3/4 ASSESS RAD  
 Pace Project No.: 92583951

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583951021	B-101D	EPA 9320	482065		
92583951022	EB-6	EPA 9320	482065		
92583951023	B-56	EPA 9320	486654		
92583951024	B-88	EPA 9320	486654		
92583951025	B-102D	EPA 9320	486654		
92583951026	FB-6	EPA 9320	486654		
92583951027	DUP-6	EPA 9320	486654		
92583951001	B-63	Total Radium Calculation	485105		
92583951002	B-77	Total Radium Calculation	485105		
92583951003	B-109D	Total Radium Calculation	485105		
92583951004	B-115D	Total Radium Calculation	485105		
92583951005	B-120D	Total Radium Calculation	485105		
92583951006	EB-2	Total Radium Calculation	485105		
92583951007	B-83	Total Radium Calculation	485105		
92583951008	EB-3	Total Radium Calculation	485105		
92583951009	B-104D	Total Radium Calculation	485105		
92583951010	B-107D	Total Radium Calculation	485105		
92583951011	B-108D	Total Radium Calculation	485105		
92583951012	B-111D	Total Radium Calculation	485105		
92583951013	B-66	Total Radium Calculation	485105		
92583951014	B-82	Total Radium Calculation	485105		
92583951015	B-106D	Total Radium Calculation	485105		
92583951016	EB-5	Total Radium Calculation	485105		
92583951017	B-92	Total Radium Calculation	485426		
92583951018	B-93	Total Radium Calculation	485426		
92583951019	B-97	Total Radium Calculation	485426		
92583951020	B-98	Total Radium Calculation	485426		
92583951021	B-101D	Total Radium Calculation	485426		
92583951022	EB-6	Total Radium Calculation	485426		
92583951023	B-56	Total Radium Calculation	488351		
92583951024	B-88	Total Radium Calculation	488351		
92583951025	B-102D	Total Radium Calculation	488351		
92583951026	FB-6	Total Radium Calculation	488351		
92583951027	DUP-6	Total Radium Calculation	488351		

**REPORT OF LABORATORY ANALYSIS**

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Document Name:  
 Sample Collection Upon Receipt (SCUR)  
 Document No:  
 F-004-02-003 Rev 06

Document Number: November 13, 2018  
 Page 1 of 2  
 Having Authority:  
 Pesticide Control Division Director

Laboratory receiving samples:

Adrienne  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Company Name:  
 (Print Name)

Client Name:  
 Pesticide  OHS  Pesticide  Other

W0#: 92583955



Country (Self Reported)  Yes  No Is this insect?  Yes  No

24 hr/48 hr Pesticide Reporting Contact: 12/1/18

Shipping Method:  Bubble Wrap  Styrofoam  None  Other

Molecular Threat Fragment?  Yes  No  None

Thermometer: 0.8  Yes  No  None

Cooler Temp: 3.7 Correction Factor: ± 0.2

Temp should be above freezing temp?  Yes  No  None

Cooler Temp Corrected (°C): 3.9

USDA Registered Insect?  Yes  No

Do samples originate in a pest and are being analyzed for control?  Yes  No

Question	Yes	No	None	Count
Chain of Custody Paper?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Sample stored in the dark?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Short Hold Time Analysis (30 min)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Each Term Report Time Record Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Sufficient amount?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Correct Containers used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Proper Container Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Container Labeled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Disposal Bagged & Sealed (Not Allowed)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1
Sample Label Marked (DOT)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Analysis Done/Time/ID/Analysis Made	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Analysis in 24 hrs (if Sample)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10
Temp. Record?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10
Temp. Control Seal (P. Temp)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10

Comments/Issues of Concern: \_\_\_\_\_

Hold Date Received?  Yes  No

Call for more information: \_\_\_\_\_

Person contacted: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager (Self Review): \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager (Self Review): \_\_\_\_\_ Date: \_\_\_\_\_





Document Name  
 Sample Collection Update Request (SQR)  
 Document No  
 P-CAR-01-013-Rev. 04

Document Revised: November 15, 2011  
 Page 1 of 3  
 Strong Acid Needs  
 PCC Customer Order 01/14

Laboratory receiving samples:

Ashville  Canton  Greenwood  Huntsville  Raleigh  Mechanical Pt  Atlanta  Kernersville

Company Name  
 User Name

Client Name

Project #

**NOA: 92583955**

Country  
 State

Unit  
 Price

CAR PLANT  
 Unit  Other

Other

PH: 990

Due Date 03/04/22

CLIENT: GA-GA Power

Country Seal Request

Yes

No

State Seal Request

Yes

No

Date/Time of Form (including City/State) 03/07/2014

Packing Material

Bubble Wrap

Bubble Bags

None

Other

Thermometer

1-100

2-100

Type of Use

Dry  Wet

Biological Trace Present

Yes  No

Cooler Temp

4.0

Correction Factor

0.0

Temp should be above freezing (0°C)

To report cool temp, please call our customer service department.

Cooler Temp Corrected (°C)

4.0

MOA Requested (MO):  Full,  Semi,  None

Old sample requires the following care with the listed MOA: CA, SI, or NO (check appropriate)

Old sample requires the following care with the listed MOA: CA, SI, or NO (check appropriate)

Comment/Discrepancy

Check of Custody Present?	Yes	No	NA	1
Sample preserved with cold temp?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Label Heat Seal Intact (if applicable)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Seal Fully Attached From Requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Custodial Witness?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Correct Container Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Appropriate Container Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Container Sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Delivered in Original Sample Label Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Labels are legible (if applicable)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1

Submit Date/Time (City/State) 03/07/2014

Temperature (City/State) 4.0°C

Temp. Range (City/State) 4.0°C

Comments/Remarks/Discrepancy

Are Data Reported?  Yes  No

Client Name (Print Name/Company Name)

City/State/Zip (Print Name)

Project Collected

Date/Time

Project Manager/Client Review:

Date

Project Manager/SRV Review:

Date

**CHAIN OF CUSTODY - Analytical Request Document**  
 The following details are to be provided in order to ensure that the analysis is performed correctly.

**Section 1: Client Information**  
 Client Name: \_\_\_\_\_  
 Client Address: \_\_\_\_\_  
 Client Phone: \_\_\_\_\_  
 Client Email: \_\_\_\_\_

**Section 2: Analytical Request**  
 Requested Analysis: \_\_\_\_\_  
 Reference Material: \_\_\_\_\_  
 Sample ID: \_\_\_\_\_

Sample ID	Description	Quantity	Unit	Analytical Results																
				1	2	3	4	5	6	7	8	9	10							
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Test Results: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Signature: \_\_\_\_\_





Document Title  
 Sample Description: Lipon Springs (SCL-8)  
 Location: LAURENS OFF Hwy 94

Document Revised: November 13, 2013  
 Page: 1 of 2  
 Issuing Authority:  
 Pace Analytical Quality Control

Laboratory receiving samples:

Ashcroft  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Origin:  
 New Material

Client Name: G.A. Power

Project #: WO# : 92583955

Container:  
 Commercial

Project Type:  
 New  RFS  Basis  Other

MR. NPG Date Order: 02/04/22  
 CLIENT: G.A. Power

Customer Identification:  Part  Scale Incent  Other  No

Date Analyzed: 11/27/22  
 LPH

Packing Material:  Casson Wrap  Bubble Bags  Other  Other  
 Thermometer:  Off Scale  In Scale  None

Biological Preservation:  
 Yes  No  No

Cooler Temp: 3.0  
 Collection Filter: 214  
 Addition: 3.1  
 Type of In: 40.1

Temp should be above freezing to 5°C  
 Sample at or below freezing (samples in coolers should be frozen)

Do not Sample Corrosive (HCl)  
 USDA Regulated Soil:  Bulk water samples  
 Do not collect samples in a container or zone within the United States (CA, HI, IL, IN, OH, PA, RI, VA)

Do sample and report for trace elements (arsenic, lead, mercury, selenium, cadmium, chromium, copper, iron, manganese, molybdenum, nickel, silver, tin, vanadium, zinc)  Yes  No  
 Commercial/Industrial  Yes  No

Item	Yes	No	Other	Count
Amount of Evidence Reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
Sample Analyzed within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2
Sample Held from Analysis (30 to 60)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1
Amount Held Beyond Time Requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4
Excesses Reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5
Excesses not Reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6
Excesses not Reported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
Excesses not Reported? Sample Held Report?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	8
Sample Held Report?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9
Included Evidence (HCl) Analysis Matrix	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10
Final report on CA, HI, IL, IN, OH, PA, RI, VA Report?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11
Do Not Report on CA, HI, IL, IN, OH, PA, RI, VA Report?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11

RECOVER TO SAMPLE DISCREPANCY

TRM Data Returned:  Yes  No

See ID of spec comments

CUSTOMER INFORMATION

Facility contacted

Date/Time

Project Manager SCURT Review

Date

Project Manager SW Review

Date

CHADLER-CUSTOMER Analytical Request Document  
 The Chicago Crime Lab is provided to deliver high quality forensic services.

Form 1

Section 1

Section 2

Page 1 of 1

Requester: Chicago Police Department  
 Requester Address: 430 N Dearborn St  
 Requester Phone: 312 487-7000  
 Requester Email: chadler@cpd.org  
 Requester Title: Lab Manager  
 Requester Signature: [Signature]  
 Request Date: 11/14/17  
 Requested By: [Signature]  
 Requested Date: 11/14/17  
 Requested For: 11/14/17  
 Requested By: [Signature]  
 Requested Date: 11/14/17  
 Requested For: 11/14/17

Sample ID	Description	Quantity	Container	Matrix	Analysis Type	Reference	Priority	Turnaround Time	Status	Remarks
1	Sample ID									
2	Sample ID									
3	Sample ID									
4	Sample ID									
5	Sample ID									
6	Sample ID									
7	Sample ID									
8	Sample ID									
9	Sample ID									
10	Sample ID									
11	Sample ID									
12	Sample ID									

Requester Signature: [Signature]  
 Requester Title: Lab Manager  
 Request Date: 11/14/17  
 Requested By: [Signature]  
 Requested Date: 11/14/17  
 Requested For: 11/14/17



Collection Number  
Sample Condition Upon Receipt USDM  
 Document No.  
FCUR-ES-013-Rev 04

Document Number: FCUR-ES-013-Rev 04  
 Page 2 of 7  
 Drawing Number:  
 Date: February 2012

Laboratory receiving samples:

Athens  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kennerly



Client Name: SA Power

Project # WO# : 92583955

At: MFG Due Date: 02/24/22  
 Client: GA-GA Power

Country: USA  
 Air In  Air  Dry  Other

Condition Upon Receipt:  Dry  Sealed  Wet  No

Date Analyzed: 02/24/22

Packing Material:  Bubble wrap  Bubble bag  None  Other  
 Temperature: 34  Room  Cold  Hot

Biological Hazard:  Yes  No

Cooler Temp: 4.0  Ambient  Cold  Hot

Temp should be above freezing to IFC  
 Temp out of range means sample is not being stored properly

Cooler Temp Corrected (C): 4.2

USDM Required (Mail)  Yes, water sample

ICC samples require a copy of the label with the correct label (A, B, C) which says?

ICC samples require a copy of the label with the correct label (A, B, C) which says?

Comments/Discrepancy

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Applicable	
Sample Arrived in the Cool Temp?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Applicable	
Short hold Time Analysis (12 hr.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable	
Auto Seal Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable	
Software Version	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Applicable	
Control Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Applicable	
Field Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Applicable	
Inventory (In Lab)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Applicable	
Initial Parameter Sample Field Entered?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Applicable	
Sample Label Match (ICM)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Applicable	
Includes Date/Time/ID Number	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Applicable	
Temperature of Sample at Receipt?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Applicable	
Temp. Seal Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Applicable	
Temp. Seal Correctly Sealed/Placed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Applicable	

Comments/Discrepancy

Field Data Requested?  Yes  No

Request Information/Resolution

Number of total containers

Person for Contact

Use of time

Project Manager (SOP Review)

Date:

Project Manager (SOP Review)

Date:

*Handwritten mark*

CLAIM OF COPYRIGHT / Analytical Request Document  
 The Copyright/Company is a Trade Secret/Confidential or otherwise legally protected invention

Section 1: Product/Service Information  
 Section 2: Analytical Request

Product/Service Name: \_\_\_\_\_  
 Analytical Request: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Requested By: \_\_\_\_\_  
 Requested For: \_\_\_\_\_

Item #	Description	Quantity	Unit	Material	Method	Notes
1	...	...	...	...	...	...
2	...	...	...	...	...	...
3	...	...	...	...	...	...
4	...	...	...	...	...	...
5	...	...	...	...	...	...
6	...	...	...	...	...	...
7	...	...	...	...	...	...
8	...	...	...	...	...	...
9	...	...	...	...	...	...
10	...	...	...	...	...	...
11	...	...	...	...	...	...
12	...	...	...	...	...	...
13	...	...	...	...	...	...
14	...	...	...	...	...	...
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Handwritten notes and signatures at the bottom of the page.



Laboratory receiving samples:

Ashwell  Eden  Greenwood  Mariettaville  Raleigh  Mariettaville  Atlanta  Kernersville

Client Name: **GA-CG Power**

WO#: **92583955**

County:  Commercial  Residential  Other

Project: PH: **NRG** Due Date: **02/04/22**  
 CLIENT: **GA-CG Power**

Current Situation:  New  Existing  Other

Inspector's former training license: **1-95-3**

Building Material:  Wood/Deck  Paint+Plast  Other

Biological Family (Insect):  Yes  No

Therapy: **9/14**  
 Ecover Temp: **2.8**  
 Computed Temp: **1.9**

Temp should be above freezing (32°F)  
 Sample will be stored frozen to be analyzed by pest control lab

Sample Temp Controlled (°C): **1.9**  
 USDA Regulatory Lab:  Yes  No

Client and/or representative of property (if any within the United States) GA, NC, or SC (check one):  
 Yes  No

Submitter's signature (with a stamped date in increments of 15 days) including name and phone number:  
 \_\_\_\_\_  
 Commissioner/Inspector

General Exclusion Request?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other	1
Initials of Inspector and Date of Visit?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other	2
Short-term Time Analysis (STTA) for IP?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Other	3
Annual Term Annual Term Request (AT)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Other	4
Software License?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other	5
Control Consumables?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other	6
Food Consumables?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other	7
Food Sample Request?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other	8
Quarantined Material Samples Label (QMS)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other	9
Sample Label Match (CCL)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other	10

Inspector's Email/Phone/Address (if any)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other	11
City/State/Zip?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other	12
Inspector's Signature (if any)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other	13

COMMENTS (PLEASE PRINT CLEARLY) Total Pages Reported:  Yes  No

Client Representative Signature: \_\_\_\_\_  
 Date of report completion: \_\_\_\_\_

Person contacted: \_\_\_\_\_  
 Project Manager SCUR Review: \_\_\_\_\_  
 Project Manager IIS Review: \_\_\_\_\_

WO#: **92583955**

PH: **NRG** Due Date: **02/04/22**  
 CLIENT: **GA-CG Power**

2

### CHAIN OF CUSTODY - Analytical Request Document

This form is used to track the custody of a sample from collection to analysis.

Requester's Name: _____	Requester's Title: _____	Requester's Department: _____	Requester's Phone: _____
Sample ID: _____	Sample Description: _____	Sample Location: _____	Sample Date: _____
Quantity: _____	Container: _____	Preservative: _____	Storage Conditions: _____
Request Date: _____	Request Time: _____	Request Status: _____	Request Priority: _____
Requestor Signature: _____	Requestor Initials: _____	Requestor Date: _____	Requestor Phone: _____

ID	Name	Title	Signature	Date	Initials	Custody Chain				Remarks
						Sample ID	Sample Description	Sample Location	Sample Date	
1	SAWYER	SAWYER								
2	SAWYER	SAWYER								
3	SAWYER	SAWYER								
4	SAWYER	SAWYER								
5	SAWYER	SAWYER								
6	SAWYER	SAWYER								
7	SAWYER	SAWYER								
8	SAWYER	SAWYER								
9	SAWYER	SAWYER								
10	SAWYER	SAWYER								
11	SAWYER	SAWYER								
12	SAWYER	SAWYER								
13	SAWYER	SAWYER								
14	SAWYER	SAWYER								
15	SAWYER	SAWYER								
16	SAWYER	SAWYER								
17	SAWYER	SAWYER								
18	SAWYER	SAWYER								
19	SAWYER	SAWYER								
20	SAWYER	SAWYER								

Requester's Name: _____	Requester's Title: _____	Requester's Department: _____	Requester's Phone: _____
Sample ID: _____	Sample Description: _____	Sample Location: _____	Sample Date: _____
Quantity: _____	Container: _____	Preservative: _____	Storage Conditions: _____
Request Date: _____	Request Time: _____	Request Status: _____	Request Priority: _____
Requestor Signature: _____	Requestor Initials: _____	Requestor Date: _____	Requestor Phone: _____

### Quality Control Sample Performance Assessment

Sample ID: 11/15/2016 10:00 AM

11/15/2016 10:00 AM

Date: 11/15/2016  
 Time: 10:00 AM  
 Location: 11/15/2016 10:00 AM

Sample ID	Sample Name	Sample Type	Sample Date	Sample Time	Sample Location
11/15/2016 10:00 AM	11/15/2016 10:00 AM	11/15/2016 10:00 AM	11/15/2016 10:00 AM	11/15/2016 10:00 AM	11/15/2016 10:00 AM

Sample ID	Sample Name	Sample Type	Sample Date	Sample Time	Sample Location
11/15/2016 10:00 AM	11/15/2016 10:00 AM	11/15/2016 10:00 AM	11/15/2016 10:00 AM	11/15/2016 10:00 AM	11/15/2016 10:00 AM

Sample ID	Sample Name	Sample Type	Sample Date	Sample Time	Sample Location
11/15/2016 10:00 AM	11/15/2016 10:00 AM	11/15/2016 10:00 AM	11/15/2016 10:00 AM	11/15/2016 10:00 AM	11/15/2016 10:00 AM

Sample ID	Sample Name	Sample Type	Sample Date	Sample Time	Sample Location
11/15/2016 10:00 AM	11/15/2016 10:00 AM	11/15/2016 10:00 AM	11/15/2016 10:00 AM	11/15/2016 10:00 AM	11/15/2016 10:00 AM

Sample ID	Sample Name	Sample Type	Sample Date	Sample Time	Sample Location
11/15/2016 10:00 AM	11/15/2016 10:00 AM	11/15/2016 10:00 AM	11/15/2016 10:00 AM	11/15/2016 10:00 AM	11/15/2016 10:00 AM

*Handwritten signature or initials*

## Quality Control Sample Performance Assessment

**Assessment:**

100%  
100%  
100%  
100%

100%  
100%  
100%  
100%

**Sample 1 - Assessment**

Sample 1	100%
Sample 2	100%
Sample 3	100%
Sample 4	100%
Sample 5	100%

**Sample 2 - Assessment**

Sample 1	100%
Sample 2	100%
Sample 3	100%
Sample 4	100%
Sample 5	100%

**Sample 3 - Assessment**

Sample 1	100%
Sample 2	100%
Sample 3	100%
Sample 4	100%
Sample 5	100%

**Sample 4 - Assessment**

Sample 1	100%
Sample 2	100%
Sample 3	100%
Sample 4	100%
Sample 5	100%

**Sample 5 - Assessment**

Sample 1	100%
Sample 2	100%
Sample 3	100%
Sample 4	100%
Sample 5	100%

100%  
100%  
100%  
100%



# Quality Control Sample Performance Assessment

Case # 2014-00123

Agency: **Chicago Police Department**

Year: 2014  
Agency: Chicago Police  
Division: 111

**Officer Name:** [Redacted]  
**Officer ID:** [Redacted]  
**Officer Status:** [Redacted]  
**Officer Type:** [Redacted]

Officer Name	Officer ID	Officer Status	Officer Type	Sample Size	Number of Samples	Number of Defects	Defect Rate
[Redacted]	[Redacted]	[Redacted]	[Redacted]	100	100	0	0.00%
[Redacted]	[Redacted]	[Redacted]	[Redacted]	100	100	0	0.00%
[Redacted]	[Redacted]	[Redacted]	[Redacted]	100	100	0	0.00%
[Redacted]	[Redacted]	[Redacted]	[Redacted]	100	100	0	0.00%
[Redacted]	[Redacted]	[Redacted]	[Redacted]	100	100	0	0.00%
[Redacted]	[Redacted]	[Redacted]	[Redacted]	100	100	0	0.00%
[Redacted]	[Redacted]	[Redacted]	[Redacted]	100	100	0	0.00%
[Redacted]	[Redacted]	[Redacted]	[Redacted]	100	100	0	0.00%
[Redacted]	[Redacted]	[Redacted]	[Redacted]	100	100	0	0.00%
[Redacted]	[Redacted]	[Redacted]	[Redacted]	100	100	0	0.00%

**Sample Size:** 100  
**Number of Samples:** 100  
**Number of Defects:** 0  
**Defect Rate:** 0.00%

The sample size is 100, which is a representative sample of the population. The number of samples is 100, which is the total number of items inspected. The number of defects is 0, which is the total number of items that do not meet the quality standards. The defect rate is 0.00%, which is the percentage of items that do not meet the quality standards.

Defect Type	Number of Defects
[Redacted]	[Redacted]
[Redacted]	[Redacted]
[Redacted]	[Redacted]
[Redacted]	[Redacted]
[Redacted]	[Redacted]
[Redacted]	[Redacted]
[Redacted]	[Redacted]
[Redacted]	[Redacted]
[Redacted]	[Redacted]
[Redacted]	[Redacted]

**Defect Type:** [Redacted]  
**Number of Defects:** [Redacted]

The defect types are [Redacted]. The number of defects for each type is [Redacted].

Quality Control Sample Performance Assessment Report

*Handwritten Signature*

### Quality Control Sample Performance Assessment

Sample ID: **2010010101**

Sample Name: **100% Pure Water**

Lot: **1000**  
 Qty: **100**  
 Date: **10/1/10**  
 Time: **10:00**

Sample Name	Lot	Qty	Date	Time
<b>100% Pure Water</b>	<b>1000</b>	<b>100</b>	<b>10/1/10</b>	<b>10:00</b>
<b>Sample Description</b>	<p>100% Pure Water</p>			
<b>Sample Source</b>	<p>100% Pure Water</p>			
<b>Sample Storage</b>	<p>100% Pure Water</p>			
<b>Sample Handling</b>	<p>100% Pure Water</p>			
<b>Sample Analysis</b>	<p>100% Pure Water</p>			
<b>Sample Results</b>	<p>100% Pure Water</p>			
<b>Sample Comments</b>	<p>100% Pure Water</p>			

*Handwritten signature*

10/1/10

## Quality Control Sample Performance Assessment

APPROVED BY:

DATE: 10/15/16  
 NAME: [Signature]

APPROVED BY: [Signature]

DATE: 10/15/16

Item	Count	Percentage
1. [Item]	10	100%
2. [Item]	10	100%
3. [Item]	10	100%
4. [Item]	10	100%
5. [Item]	10	100%
6. [Item]	10	100%
7. [Item]	10	100%
8. [Item]	10	100%
9. [Item]	10	100%
10. [Item]	10	100%

Item	Count	Percentage
1. [Item]	10	100%
2. [Item]	10	100%
3. [Item]	10	100%
4. [Item]	10	100%
5. [Item]	10	100%
6. [Item]	10	100%
7. [Item]	10	100%
8. [Item]	10	100%
9. [Item]	10	100%
10. [Item]	10	100%

Item	Count	Percentage
1. [Item]	10	100%
2. [Item]	10	100%
3. [Item]	10	100%
4. [Item]	10	100%
5. [Item]	10	100%
6. [Item]	10	100%
7. [Item]	10	100%
8. [Item]	10	100%
9. [Item]	10	100%
10. [Item]	10	100%

1. [Text]

2. [Text]

3. [Text]

4. [Text]

5. [Text]

6. [Text]

7. [Text]

8. [Text]

9. [Text]

10. [Text]

1. [Text]

2. [Text]

3. [Text]

4. [Text]

5. [Text]

6. [Text]

7. [Text]

8. [Text]

9. [Text]

10. [Text]

Comments:

DATE: 10/15/16

[Signature]

APPROVED BY:



February 02, 2022

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

RE: Project: MCDONOUGH SUPPLEMENTAL  
Pace Project No.: 92583585

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on January 20, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

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

Enclosures

cc: Stephen Benda  
Anna Bottum, ERM  
Andrea Brazell, ERM  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power  
Kristen Jurinko  
J. Shelby Mobley  
Charles Norton, Southern Company  
Ms. Lauren Petty, Southern Company  
Dawn Prell, Golder Associates Inc.

Tim Richards, Golder Associates - Atlanta  
Lacy Smith, ERM  
Caitlin Tillema, ERM  
Christine Weaver, ERM



### REPORT OF LABORATORY ANALYSIS

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### CERTIFICATIONS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

#### Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414  
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

- A2LA Certification #: 2926.01\*
- Alabama Certification #: 40770
- Alaska Contaminated Sites Certification #: 17-009\*
- Alaska DW Certification #: MN00064
- Arizona Certification #: AZ0014\*
- Arkansas DW Certification #: MN00064
- Arkansas WW Certification #: 88-0680
- California Certification #: 2929
- Colorado Certification #: MN00064
- Connecticut Certification #: PH-0256
- EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
- Florida Certification #: E87605\*
- Georgia Certification #: 959
- Hawaii Certification #: MN00064
- Idaho Certification #: MN00064
- Illinois Certification #: 200011
- Indiana Certification #: C-MN-01
- Iowa Certification #: 368
- Kansas Certification #: E-10167
- Kentucky DW Certification #: 90062
- Kentucky WW Certification #: 90062
- Louisiana DEQ Certification #: AI-03086\*
- Louisiana DW Certification #: MN00064
- Maine Certification #: MN00064\*
- Maryland Certification #: 322
- Michigan Certification #: 9909
- Minnesota Certification #: 027-053-137\*
- Minnesota Dept of Ag Approval: via MN 027-053-137
- Minnesota Petrofund Registration #: 1240\*
- Mississippi Certification #: MN00064

- Missouri Certification #: 10100
  - Montana Certification #: CERT0092
  - Nebraska Certification #: NE-OS-18-06
  - Nevada Certification #: MN00064
  - New Hampshire Certification #: 2081\*
  - New Jersey Certification #: MN002
  - New York Certification #: 11647\*
  - North Carolina DW Certification #: 27700
  - North Carolina WW Certification #: 530
  - North Dakota Certification #: R-036
  - Ohio DW Certification #: 41244
  - Ohio VAP Certification (1700) #: CL101
  - Ohio VAP Certification (1800) #: CL110\*
  - Oklahoma Certification #: 9507\*
  - Oregon Primary Certification #: MN300001
  - Oregon Secondary Certification #: MN200001\*
  - Pennsylvania Certification #: 68-00563\*
  - Puerto Rico Certification #: MN00064
  - South Carolina Certification #:74003001
  - Tennessee Certification #: TN02818
  - Texas Certification #: T104704192\*
  - Utah Certification #: MN00064\*
  - Vermont Certification #: VT-027053137
  - Virginia Certification #: 460163\*
  - Washington Certification #: C486\*
  - West Virginia DEP Certification #: 382
  - West Virginia DW Certification #: 9952 C
  - Wisconsin Certification #: 999407970
  - Wyoming UST Certification #: via A2LA 2926.01
  - USDA Permit #: P330-19-00208
- \*Please Note: Applicable air certifications are denoted with an asterisk (\*).

#### Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006  
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
South Carolina Laboratory ID: 99006

- South Carolina Certification #: 99006001
- South Carolina Drinking Water Cert. #: 99006003
- Florida/NELAP Certification #: E87627
- Kentucky UST Certification #: 84
- Louisiana DoH Drinking Water #: LA029
- Virginia/VELAP Certification #: 460221

#### Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804  
Florida/NELAP Certification #: E87648  
North Carolina Drinking Water Certification #: 37712  
North Carolina Wastewater Certification #: 40

- South Carolina Laboratory ID: 99030
- South Carolina Certification #: 99030001
- Virginia/VELAP Certification #: 460222

#### Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092  
Florida DOH Certification #: E87315

- Georgia DW Inorganics Certification #: 812
- North Carolina Certification #: 381

### REPORT OF LABORATORY ANALYSIS

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## **CERTIFICATIONS**

Project: MCDONOUGH SUPPLEMENTAL  
Pace Project No.: 92583585

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**Pace Analytical Services Peachtree Corners**  
South Carolina Certification #: 98011001

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## **REPORT OF LABORATORY ANALYSIS**

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### SAMPLE SUMMARY

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92583585001	B-116D	Water	01/19/22 16:13	01/20/22 08:45
92583585002	B-117D	Water	01/19/22 12:20	01/20/22 08:45
92583585003	B-118	Water	01/19/22 13:44	01/20/22 08:45
92583585004	B-119D	Water	01/19/22 11:42	01/20/22 08:45
92583585005	EB-1	Water	01/19/22 13:25	01/20/22 08:45

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583585001	B-116D	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583585002	B-117D	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583585003	B-118	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583585004	B-119D	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	KH	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92583585005	EB-1	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		SM 2320B	AR3	3	PASI-M
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

PASI-M = Pace Analytical Services - Minneapolis

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

**Sample: B-116D**      **Lab ID: 92583585001**      Collected: 01/19/22 16:13      Received: 01/20/22 08:45      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/20/22 13:45		
pH	<b>6.04</b>	Std. Units			1		01/20/22 13:45		

**6010D ATL ICP**

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

Potassium	<b>2.5</b>	mg/L	0.20	0.15	1	01/25/22 09:10	01/25/22 14:55	7440-09-7	
Sodium	<b>8.2</b>	mg/L	1.0	0.58	1	01/25/22 09:10	01/25/22 14:55	7440-23-5	
Calcium	<b>10.7</b>	mg/L	1.0	0.12	1	01/25/22 09:10	01/25/22 14:55	7440-70-2	
Magnesium	<b>3.8</b>	mg/L	0.050	0.012	1	01/25/22 09:10	01/25/22 14:55	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	01/25/22 09:49	01/25/22 18:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 18:51	7440-38-2	
Barium	<b>0.019</b>	mg/L	0.0050	0.00067	1	01/25/22 09:49	01/25/22 18:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	01/25/22 09:49	01/25/22 18:51	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	01/25/22 09:49	01/25/22 18:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:49	01/25/22 18:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 18:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:49	01/25/22 18:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:49	01/25/22 18:51	7439-92-1	
Lithium	<b>0.0061J</b>	mg/L	0.030	0.00073	1	01/25/22 09:49	01/25/22 18:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:49	01/25/22 18:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:49	01/25/22 18:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:49	01/25/22 18:51	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.00013	1	01/26/22 14:15	01/27/22 10:30	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>93.0</b>	mg/L	10.0	10.0	1		01/25/22 16:18		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>51.0</b>	mg/L	5.0	1.8	1		01/26/22 16:18		
Alkalinity,Bicarbonate (CaCO3)	<b>51.0</b>	mg/L	5.0	1.8	1		01/26/22 16:18		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 16:18		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>2.6</b>	mg/L	1.0	0.60	1		01/21/22 16:14	16887-00-6	M1
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### ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

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**Sample: B-116D**      **Lab ID: 92583585001**      Collected: 01/19/22 16:13      Received: 01/20/22 08:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**      Analytical Method: EPA 300.0 Rev 2.1 1993  
 Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		01/21/22 16:14	16984-48-8	
Sulfate	<b>0.73J</b>	mg/L	1.0	0.50	1		01/21/22 16:14	14808-79-8	M1

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### ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

**Sample: B-117D**      **Lab ID: 92583585002**      Collected: 01/19/22 12:20      Received: 01/20/22 08:45      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/20/22 13:45		
pH	<b>6.02</b>	Std. Units			1		01/20/22 13:45		

**6010D ATL ICP**

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

Potassium	<b>2.6</b>	mg/L	0.20	0.15	1	01/25/22 09:10	01/25/22 15:14	7440-09-7	
Sodium	<b>17.8</b>	mg/L	1.0	0.58	1	01/25/22 09:10	01/25/22 15:14	7440-23-5	
Calcium	<b>9.7</b>	mg/L	1.0	0.12	1	01/25/22 09:10	01/25/22 15:14	7440-70-2	
Magnesium	<b>1.5</b>	mg/L	0.050	0.012	1	01/25/22 09:10	01/25/22 15:14	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	01/25/22 09:49	01/25/22 18:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 18:57	7440-38-2	
Barium	<b>0.047</b>	mg/L	0.0050	0.00067	1	01/25/22 09:49	01/25/22 18:57	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	01/25/22 09:49	01/25/22 18:57	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	01/25/22 09:49	01/25/22 18:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:49	01/25/22 18:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 18:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:49	01/25/22 18:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:49	01/25/22 18:57	7439-92-1	
Lithium	<b>0.0085J</b>	mg/L	0.030	0.00073	1	01/25/22 09:49	01/25/22 18:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/25/22 09:49	01/25/22 18:57	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:49	01/25/22 18:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:49	01/25/22 18:57	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.00013	1	01/26/22 14:15	01/27/22 10:33	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>129</b>	mg/L	10.0	10.0	1		01/25/22 16:18		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>40.3</b>	mg/L	5.0	1.8	1		01/26/22 16:37		
Alkalinity,Bicarbonate (CaCO3)	<b>40.3</b>	mg/L	5.0	1.8	1		01/26/22 16:37		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 16:37		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>5.0</b>	mg/L	1.0	0.60	1		01/21/22 16:55	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

Sample: B-117D Lab ID: 92583585002 Collected: 01/19/22 12:20 Received: 01/20/22 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.058J	mg/L	0.10	0.050	1		01/21/22 16:55	16984-48-8	
Sulfate	21.5	mg/L	1.0	0.50	1		01/21/22 16:55	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

**Sample: B-118**      **Lab ID: 92583585003**      Collected: 01/19/22 13:44      Received: 01/20/22 08:45      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/20/22 13:45		
pH	<b>6.01</b>	Std. Units			1		01/20/22 13:45		

**6010D ATL ICP**

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

Potassium	<b>2.3</b>	mg/L	0.20	0.15	1	01/25/22 09:10	01/25/22 15:18	7440-09-7	
Sodium	<b>9.0</b>	mg/L	1.0	0.58	1	01/25/22 09:10	01/25/22 15:18	7440-23-5	
Calcium	<b>5.1</b>	mg/L	1.0	0.12	1	01/25/22 09:10	01/25/22 15:18	7440-70-2	
Magnesium	<b>2.1</b>	mg/L	0.050	0.012	1	01/25/22 09:10	01/25/22 15:18	7439-95-4	

**6020 MET ICPMS**

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

Antimony	<b>0.0020J</b>	mg/L	0.0030	0.00078	1	01/25/22 09:49	01/25/22 19:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 19:20	7440-38-2	
Barium	<b>0.025</b>	mg/L	0.0050	0.00067	1	01/25/22 09:49	01/25/22 19:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	01/25/22 09:49	01/25/22 19:20	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	01/25/22 09:49	01/25/22 19:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:49	01/25/22 19:20	7440-43-9	
Chromium	<b>0.0015J</b>	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 19:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/25/22 09:49	01/25/22 19:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:49	01/25/22 19:20	7439-92-1	
Lithium	<b>0.0027J</b>	mg/L	0.030	0.00073	1	01/25/22 09:49	01/25/22 19:20	7439-93-2	
Molybdenum	<b>0.0056J</b>	mg/L	0.010	0.00074	1	01/25/22 09:49	01/25/22 19:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:49	01/25/22 19:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:49	01/25/22 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	01/26/22 14:15	01/27/22 10:35	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>81.0</b>	mg/L	10.0	10.0	1		01/25/22 16:18		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	<b>36.7</b>	mg/L	5.0	1.8	1		01/26/22 16:42		
Alkalinity,Bicarbonate (CaCO3)	<b>36.7</b>	mg/L	5.0	1.8	1		01/26/22 16:42		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 16:42		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>2.8</b>	mg/L	1.0	0.60	1		01/21/22 17:09	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

Sample: B-118 Lab ID: 92583585003 Collected: 01/19/22 13:44 Received: 01/20/22 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		01/21/22 17:09	16984-48-8	
Sulfate	1.1	mg/L	1.0	0.50	1		01/21/22 17:09	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

**Sample: B-119D**      **Lab ID: 92583585004**      Collected: 01/19/22 11:42      Received: 01/20/22 08:45      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/20/22 13:45		
pH	<b>6.61</b>	Std. Units			1		01/20/22 13:45		

**6010D ATL ICP**

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

Potassium	<b>2.3</b>	mg/L	0.20	0.15	1	01/25/22 09:10	01/25/22 15:33	7440-09-7	
Sodium	<b>24.8</b>	mg/L	1.0	0.58	1	01/25/22 09:10	01/25/22 15:33	7440-23-5	
Calcium	<b>16.1</b>	mg/L	1.0	0.12	1	01/25/22 09:10	01/25/22 15:33	7440-70-2	
Magnesium	<b>4.0</b>	mg/L	0.050	0.012	1	01/25/22 09:10	01/25/22 15:33	7439-95-4	

**6020 MET ICPMS**

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

Antimony	<b>0.0019J</b>	mg/L	0.0030	0.00078	1	01/25/22 09:49	01/25/22 19:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 19:26	7440-38-2	
Barium	<b>0.0047J</b>	mg/L	0.0050	0.00067	1	01/25/22 09:49	01/25/22 19:26	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	01/25/22 09:49	01/25/22 19:26	7440-41-7	
Boron	<b>0.012J</b>	mg/L	0.040	0.0086	1	01/25/22 09:49	01/25/22 19:26	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/25/22 09:49	01/25/22 19:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/25/22 09:49	01/25/22 19:26	7440-47-3	
Cobalt	<b>0.00066J</b>	mg/L	0.0050	0.00039	1	01/25/22 09:49	01/25/22 19:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/25/22 09:49	01/25/22 19:26	7439-92-1	
Lithium	<b>0.0031J</b>	mg/L	0.030	0.00073	1	01/25/22 09:49	01/25/22 19:26	7439-93-2	
Molybdenum	<b>0.020</b>	mg/L	0.010	0.00074	1	01/25/22 09:49	01/25/22 19:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/25/22 09:49	01/25/22 19:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/25/22 09:49	01/25/22 19:26	7440-28-0	

**7470 Mercury**

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

Mercury	ND	mg/L	0.00020	0.00013	1	01/26/22 14:15	01/27/22 10:38	7439-97-6	
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**2540C Total Dissolved Solids**

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

Total Dissolved Solids	<b>145</b>	mg/L	10.0	10.0	1		01/25/22 16:19		
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**2320B Alkalinity**

Analytical Method: SM 2320B  
Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO <sub>3</sub>	<b>66.2</b>	mg/L	5.0	1.8	1		01/26/22 16:47		
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	<b>66.2</b>	mg/L	5.0	1.8	1		01/26/22 16:47		
Alkalinity,Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	1.8	1		01/26/22 16:47		

**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Chloride	<b>3.8</b>	mg/L	1.0	0.60	1		01/21/22 17:23	16887-00-6	
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### ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

Sample: B-119D Lab ID: 92583585004 Collected: 01/19/22 11:42 Received: 01/20/22 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**300.0 IC Anions 28 Days**

Analytical Method: EPA 300.0 Rev 2.1 1993  
Pace Analytical Services - Asheville

Fluoride	<b>0.099J</b>	mg/L	0.10	0.050	1		01/21/22 17:23	16984-48-8	
Sulfate	<b>31.1</b>	mg/L	1.0	0.50	1		01/21/22 17:23	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

**Sample: EB-1**      **Lab ID: 92583585005**      Collected: 01/19/22 13:25      Received: 01/20/22 08:45      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	01/25/22 09:10	01/25/22 15:38	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	01/25/22 09:10	01/25/22 15:38	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	01/25/22 09:10	01/25/22 15:38	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	01/25/22 09:10	01/25/22 15:38	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/22 09:47	02/01/22 13:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/01/22 09:47	02/01/22 13:46	7440-38-2	
Barium	<b>0.00070J</b>	mg/L	0.0050	0.00067	1	02/01/22 09:47	02/01/22 13:46	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/22 09:47	02/01/22 13:46	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/01/22 09:47	02/01/22 13:46	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/22 09:47	02/01/22 13:46	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/01/22 09:47	02/01/22 13:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/01/22 09:47	02/01/22 13:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/22 09:47	02/01/22 13:46	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/01/22 09:47	02/01/22 13:46	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/01/22 09:47	02/01/22 13:46	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/01/22 09:47	02/01/22 13:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/22 09:47	02/01/22 13:46	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	01/26/22 14:15	01/27/22 10:41	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		01/25/22 16:19		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.8	1		01/26/22 17:15		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 17:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.8	1		01/26/22 17:15		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		01/21/22 18:05	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/21/22 18:05	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/21/22 18:05	14808-79-8	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

QC Batch:	673587	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583585001, 92583585002, 92583585003, 92583585004, 92583585005

METHOD BLANK: 3525717 Matrix: Water  
 Associated Lab Samples: 92583585001, 92583585002, 92583585003, 92583585004, 92583585005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	01/25/22 14:07	
Magnesium	mg/L	ND	0.050	0.012	01/25/22 14:07	
Potassium	mg/L	ND	0.20	0.15	01/25/22 14:07	
Sodium	mg/L	ND	1.0	0.58	01/25/22 14:07	

LABORATORY CONTROL SAMPLE: 3525718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	108	80-120	
Magnesium	mg/L	1	1.1	110	80-120	
Potassium	mg/L	1	1.1	106	80-120	
Sodium	mg/L	1	1.1	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525719 3525720

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583585001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	10.7	1	1	11.9	11.8	118	113	75-125	0	20
Magnesium	mg/L	3.8	1	1	4.9	4.9	108	109	75-125	0	20
Potassium	mg/L	2.5	1	1	3.6	3.7	111	114	75-125	1	20
Sodium	mg/L	8.2	1	1	9.1	9.3	91	106	75-125	2	20

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**QUALITY CONTROL DATA**

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

QC Batch:	673617	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583585001, 92583585002, 92583585003, 92583585004

METHOD BLANK: 3525846 Matrix: Water

Associated Lab Samples: 92583585001, 92583585002, 92583585003, 92583585004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	01/25/22 18:39	
Arsenic	mg/L	ND	0.0050	0.0011	01/25/22 18:39	
Barium	mg/L	ND	0.0050	0.00067	01/25/22 18:39	
Beryllium	mg/L	ND	0.00050	0.000054	01/25/22 18:39	
Boron	mg/L	ND	0.040	0.0086	01/25/22 18:39	
Cadmium	mg/L	ND	0.00050	0.00011	01/25/22 18:39	
Chromium	mg/L	ND	0.0050	0.0011	01/25/22 18:39	
Cobalt	mg/L	ND	0.0050	0.00039	01/25/22 18:39	
Lead	mg/L	ND	0.0010	0.00089	01/25/22 18:39	
Lithium	mg/L	ND	0.030	0.00073	01/25/22 18:39	
Molybdenum	mg/L	ND	0.010	0.00074	01/25/22 18:39	
Selenium	mg/L	ND	0.0050	0.0014	01/25/22 18:39	
Thallium	mg/L	ND	0.0010	0.00018	01/25/22 18:39	

LABORATORY CONTROL SAMPLE: 3525847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.093	93	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.094	94	80-120	
Cobalt	mg/L	0.1	0.090	90	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.093	93	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3525848 3525849

Parameter	Units	92583585002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	108	108	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.098	0.095	98	95	75-125	3	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

Parameter	Units	3525848		3525849		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583585002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.047	0.1	0.1	0.15	0.15	102	107	75-125	4	20		
Beryllium	mg/L	ND	0.1	0.1	0.098	0.092	98	92	75-125	6	20		
Boron	mg/L	ND	1	1	0.99	0.91	99	90	75-125	9	20		
Cadmium	mg/L	ND	0.1	0.1	0.099	0.096	99	96	75-125	3	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	3	20		
Cobalt	mg/L	ND	0.1	0.1	0.099	0.10	99	99	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	3	20		
Lithium	mg/L	0.0085J	0.1	0.1	0.11	0.10	98	95	75-125	3	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20		

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**QUALITY CONTROL DATA**

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

QC Batch: 675122

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583585005

METHOD BLANK: 3533656

Matrix: Water

Associated Lab Samples: 92583585005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/01/22 13:34	
Arsenic	mg/L	ND	0.0050	0.0011	02/01/22 13:34	
Barium	mg/L	ND	0.0050	0.00067	02/01/22 13:34	
Beryllium	mg/L	ND	0.00050	0.000054	02/01/22 13:34	
Boron	mg/L	ND	0.040	0.0086	02/01/22 13:34	
Cadmium	mg/L	ND	0.00050	0.00011	02/01/22 13:34	
Chromium	mg/L	ND	0.0050	0.0011	02/01/22 13:34	
Cobalt	mg/L	ND	0.0050	0.00039	02/01/22 13:34	
Lead	mg/L	ND	0.0010	0.00089	02/01/22 13:34	
Lithium	mg/L	ND	0.030	0.00073	02/01/22 13:34	
Molybdenum	mg/L	ND	0.010	0.00074	02/01/22 13:34	
Selenium	mg/L	ND	0.0050	0.0014	02/01/22 13:34	
Thallium	mg/L	ND	0.0010	0.00018	02/01/22 13:34	

LABORATORY CONTROL SAMPLE: 3533657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.11	109	80-120	
Boron	mg/L	1	1.1	115	80-120	
Cadmium	mg/L	0.1	0.11	106	80-120	
Chromium	mg/L	0.1	0.11	105	80-120	
Cobalt	mg/L	0.1	0.10	105	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.11	110	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3533658 3533659

Parameter	Units	92585102002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	107	108	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	1	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

Parameter	Units	3533658		3533659		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92585102002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Barium	mg/L	23.1 ug/L	0.1	0.1	0.13	0.13	107	105	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.11	0.11	110	108	75-125	2	20	
Boron	mg/L	ND	1	1	1.1	1.1	113	109	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.11	105	108	75-125	3	20	
Chromium	mg/L	47.0 ug/L	0.1	0.1	0.15	0.16	107	112	75-125	3	20	
Cobalt	mg/L	ND	0.1	0.1	0.11	0.11	105	109	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.11	0.11	109	106	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	102	105	75-125	3	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.099	0.10	99	100	75-125	1	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

QC Batch:	673997	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92583585001, 92583585002, 92583585003, 92583585004, 92583585005

METHOD BLANK: 3527642 Matrix: Water  
 Associated Lab Samples: 92583585001, 92583585002, 92583585003, 92583585004, 92583585005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	01/27/22 10:01	

LABORATORY CONTROL SAMPLE: 3527643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3527644 3527645

Parameter	Units	3527644		3527645		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0023	0.0022	92	89	75-125	3	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

QC Batch: 673706

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: 92583585001, 92583585002, 92583585003, 92583585004, 92583585005

METHOD BLANK: 3526393

Matrix: Water

Associated Lab Samples: 92583585001, 92583585002, 92583585003, 92583585004, 92583585005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	01/25/22 16:16	

LABORATORY CONTROL SAMPLE: 3526394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3526395

Parameter	Units	92583263001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	308	310	1	25	

SAMPLE DUPLICATE: 3526396

Parameter	Units	92583585002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	129	123	5	25	

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### QUALITY CONTROL DATA

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

QC Batch: 795578

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 92583585001, 92583585002, 92583585003, 92583585004, 92583585005

METHOD BLANK: 4230575

Matrix: Water

Associated Lab Samples: 92583585001, 92583585002, 92583585003, 92583585004, 92583585005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.8	01/26/22 14:12	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.8	01/26/22 14:12	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.8	01/26/22 14:12	

LABORATORY CONTROL SAMPLE & LCSD: 4230576

4230577

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	42.1	42.3	105	106	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4230578

4230579

Parameter	Units	10595480001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	21.7	40	40	61.1	59.0	99	93	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4230580

4230581

Parameter	Units	92583585001 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	51.0	40	40	91.2	91.1	100	100	80-120	0	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92583585

QC Batch: 673020 Analysis Method: EPA 300.0 Rev 2.1 1993  
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
 Laboratory: Pace Analytical Services - Asheville  
 Associated Lab Samples: 92583585001, 92583585002, 92583585003, 92583585004, 92583585005

METHOD BLANK: 3522860 Matrix: Water  
 Associated Lab Samples: 92583585001, 92583585002, 92583585003, 92583585004, 92583585005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/21/22 12:31	
Fluoride	mg/L	ND	0.10	0.050	01/21/22 12:31	
Sulfate	mg/L	ND	1.0	0.50	01/21/22 12:31	

LABORATORY CONTROL SAMPLE: 3522861

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.9	102	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	50.2	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3522862 3522863

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583627001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	5.0	50	50	50	60.6	61.4	111	113	90-110	1	10 M1	
Fluoride	mg/L	0.063J	2.5	2.5	2.5	2.6	2.7	102	104	90-110	2	10	
Sulfate	mg/L	5.0	50	50	50	60.3	61.5	111	113	90-110	2	10 M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3522864 3522865

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92583585001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	2.6	50	50	50	58.3	58.5	111	112	90-110	0	10 M1	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	2.7	105	107	90-110	2	10	
Sulfate	mg/L	0.73J	50	50	50	55.9	56.1	110	111	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**

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## QUALIFIERS

Project: MCDONOUGH SUPPLEMENTAL  
Pace Project No.: 92583585

---

### 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.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: MCDONOUGH SUPPLEMENTAL  
 Pace Project No.: 92583585

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583585001	B-116D				
92583585002	B-117D				
92583585003	B-118				
92583585004	B-119D				
92583585001	B-116D	EPA 3010A	673587	EPA 6010D	673656
92583585002	B-117D	EPA 3010A	673587	EPA 6010D	673656
92583585003	B-118	EPA 3010A	673587	EPA 6010D	673656
92583585004	B-119D	EPA 3010A	673587	EPA 6010D	673656
92583585005	EB-1	EPA 3010A	673587	EPA 6010D	673656
92583585001	B-116D	EPA 3005A	673617	EPA 6020B	673660
92583585002	B-117D	EPA 3005A	673617	EPA 6020B	673660
92583585003	B-118	EPA 3005A	673617	EPA 6020B	673660
92583585004	B-119D	EPA 3005A	673617	EPA 6020B	673660
92583585005	EB-1	EPA 3005A	675122	EPA 6020B	675233
92583585001	B-116D	EPA 7470A	673997	EPA 7470A	674181
92583585002	B-117D	EPA 7470A	673997	EPA 7470A	674181
92583585003	B-118	EPA 7470A	673997	EPA 7470A	674181
92583585004	B-119D	EPA 7470A	673997	EPA 7470A	674181
92583585005	EB-1	EPA 7470A	673997	EPA 7470A	674181
92583585001	B-116D	SM 2540C-2015	673706		
92583585002	B-117D	SM 2540C-2015	673706		
92583585003	B-118	SM 2540C-2015	673706		
92583585004	B-119D	SM 2540C-2015	673706		
92583585005	EB-1	SM 2540C-2015	673706		
92583585001	B-116D	SM 2320B	795578		
92583585002	B-117D	SM 2320B	795578		
92583585003	B-118	SM 2320B	795578		
92583585004	B-119D	SM 2320B	795578		
92583585005	EB-1	SM 2320B	795578		
92583585001	B-116D	EPA 300.0 Rev 2.1 1993	673020		
92583585002	B-117D	EPA 300.0 Rev 2.1 1993	673020		
92583585003	B-118	EPA 300.0 Rev 2.1 1993	673020		
92583585004	B-119D	EPA 300.0 Rev 2.1 1993	673020		
92583585005	EB-1	EPA 300.0 Rev 2.1 1993	673020		

**REPORT OF LABORATORY ANALYSIS**

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

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

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Complete From  
Upon Receipt

Client Name: GA Power CR Project #:

WO#: 92583585



Courier:  Fed Ex  UPS  USPS  Other: Delant  
 Commercial  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 1/20/23  
(JH)

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No SPR

Thermometer: 3M Gun Th 214 Type of Ice:  Dry  Blue  None

Cooler Temp: 5.6/20/23 Correction Factor: +0.1  
4.7

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

Cooler Temp Corrected (°C): 5.7/20/23/4.5  
USDA Regulated Soil?  N/A, water samples

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

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

		Comments/Discrepancy
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	<u>W</u>	
Headspace in VOA Vials (>5.6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_



Document Name:  
Sample Condition Upon Receipt (SCUR)

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

Document Revised: November 15, 2021  
Page 2 of 2

Issuing Authority:  
Pace Carolina's Quality Office

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

Project #

WO# : 92583585

PH: N/A

Due Date: 02/03/22

CLIENT: CR-GA Power

Exposures: VOA, Coliform, TOC, Chlorine Residual, Disinfectant Residual, DOC, CDR

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

Row #	Sample ID	Container	Preservative	Volume	Notes
1	BP00-125 ml, Plastic Unpreserved (N/A) (D-1)				
2	BP00-250 ml, Plastic Unpreserved (N/A)				
3	BP00-500 ml, Plastic Unpreserved (N/A)				
4	BP00-1 liter Plastic Unpreserved (N/A)				
5	BP00-1.25 ml, Plastic w/210ml (pH < 7) (D-1)				
6	BP00-250 ml, plastic w/250 (pH < 7)				
7	BP00-125 ml, Plastic 2% Acetate & NaOCl (pH)				
8	BP00-125 ml, Plastic NaOCl (pH < 12) (D-1)				
9	W000-White mouthed Glass jar Unpreserved				
10	AG00-1 liter Amber Unpreserved (N/A) (D-1)				
11	AG00-1 liter Amber HCl (pH < 2)				
12	AG00-250 ml, Amber Unpreserved (N/A) (D-1)				
13	AG00-1 liter Amber w/250 (pH < 7)				
14	AG00-250 ml, Amber w/250 (pH < 7)				
15	AG00-250 ml, Amber w/250 (pH < 2)				
16	AG00/0000/250 ml, Amber w/250 (pH/DOC)				
17	0000-40 ml, VOA HCl (N/A)				
18	VO00-40 ml, VOA Hg/2000 (N/A)				
19	VO00-40 ml, VOA Unpreserved (N/A)				
20	DO00-40 ml, VOA w/200 (N/A)				
21	VO00 (3 vials per lot)-2000 (N/A)				
22	VP00 (3 vials per lot)-VFA/Clas (N/A)				
23	SP00-125 ml, Sterile Plastic (N/A - 100)				
24	SP00-250 ml, Sterile Plastic (N/A - 100)				
25	BP00-250 ml, Plastic (N/A) (D-1-3-3-7)				
26	AG00-100 ml, Amber Unpreserved vials (N/A)				
27	VO00-20 ml, Scintillation vials (N/A)				
28	DO00-40 ml, Amber Unpreserved vials (N/A)				

**pH Adjustment Log for Preserved Samples**

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

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





February 08, 2022

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

RE: Project: MCDONOUGH SUPPLEMENTAL  
Pace Project No.: 92584718

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on January 27, 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@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Stephen Benda  
 Anna Bottum, ERM  
 Andrea Brazell, ERM  
 Daniela Herrera, Golder  
 Ben Hodges, Georgia Power  
 Kristen Jurinko  
 J. Shelby Mobley  
 Charles Norton, Southern Company  
 Ms. Lauren Petty, Southern Company  
 Dawn Prell, Golder Associates Inc.  
 Tim Richards, Golder Associates - Atlanta  
 Lacy Smith, ERM

Caitlin Tillema, ERM  
Christine Weaver, ERM



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## CERTIFICATIONS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92584718

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### **Pace Analytical Services Charlotte**

South Carolina Laboratory ID: 99006

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

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### **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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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: MCDONOUGH SUPPLEMENTAL  
Pace Project No.: 92584718

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92584718001	B-90	Water	01/26/22 11:01	01/27/22 08:50
92584718002	B-91	Water	01/26/22 12:00	01/27/22 08:50
92584718003	B-95	Water	01/26/22 13:03	01/27/22 08:50
92584718004	B-96	Water	01/26/22 13:57	01/27/22 08:50
92584718005	B-99	Water	01/26/22 16:36	01/27/22 08:50

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92584718

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
92584718001	B-90	EPA 6020B	CW1	1
92584718002	B-91	EPA 6020B	CW1	1
92584718003	B-95	EPA 6020B	CW1	1
92584718004	B-96	EPA 6020B	CW1	1
92584718005	B-99	EPA 6020B	CW1	1

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PASI-C = Pace Analytical Services - Charlotte

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

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### ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92584718

Sample: B-90		Lab ID: 92584718001		Collected: 01/26/22 11:01		Received: 01/27/22 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		01/27/22 10:08		
pH	<b>5.45</b>	Std. Units			1		01/27/22 10:08		
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Boron	<b>3.2</b>	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 20:55	7440-42-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92584718

Sample: B-91		Lab ID: 92584718002		Collected: 01/26/22 12:00	Received: 01/27/22 08:50	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		01/27/22 10:08		
pH	<b>5.29</b>	Std. Units			1		01/27/22 10:08		
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Boron	<b>3.6</b>	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 21:01	7440-42-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92584718

**Sample: B-95**      **Lab ID: 92584718003**      Collected: 01/26/22 13:03      Received: 01/27/22 08:50      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	<b>CUSTOMER</b>				1		01/27/22 10:08		
pH	<b>5.33</b>	Std. Units			1		01/27/22 10:08		
<b>6020 MET ICPMS</b>	Analytical Method: EPA 6020B    Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	<b>2.0</b>	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 21:07	7440-42-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92584718

Sample: B-96 Lab ID: 92584718004 Collected: 01/26/22 13:57 Received: 01/27/22 08:50 Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by **CUSTOMER** 1 01/27/22 10:08

pH **5.01** Std. Units 1 01/27/22 10:08

**6020 MET ICPMS**

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

Boron **3.7** mg/L 0.040 0.0086 1 02/03/22 13:00 02/03/22 21:13 7440-42-8

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92584718

**Sample: B-99**      **Lab ID: 92584718005**      Collected: 01/26/22 16:36      Received: 01/27/22 08:50      Matrix: Water

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

**Field Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/27/22 10:09		
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pH	<b>5.67</b>	Std. Units			1		01/27/22 10:09		
----	-------------	------------	--	--	---	--	----------------	--	--

**6020 MET ICPMS**

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

Boron	<b>2.7</b>	mg/L	0.040	0.0086	1	02/03/22 13:00	02/03/22 21:19	7440-42-8	
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**QUALITY CONTROL DATA**

Project: MCDONOUGH SUPPLEMENTAL  
 Pace Project No.: 92584718

QC Batch: 675834 Analysis Method: EPA 6020B  
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92584718001, 92584718002, 92584718003, 92584718004, 92584718005

METHOD BLANK: 3537236 Matrix: Water  
 Associated Lab Samples: 92584718001, 92584718002, 92584718003, 92584718004, 92584718005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	0.0086	02/03/22 20:25	

LABORATORY CONTROL SAMPLE: 3537237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3537238 3537239

Parameter	Units	92583953026		3537238		3537239		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Boron	mg/L	0.69	0.69	1	1	1.7	1.7	96	102	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**

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## QUALIFIERS

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92584718

---

### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH SUPPLEMENTAL

Pace Project No.: 92584718

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92584718001	B-90				
92584718002	B-91				
92584718003	B-95				
92584718004	B-96				
92584718005	B-99				
92584718001	B-90	EPA 3005A	675834	EPA 6020B	675916
92584718002	B-91	EPA 3005A	675834	EPA 6020B	675916
92584718003	B-95	EPA 3005A	675834	EPA 6020B	675916
92584718004	B-96	EPA 3005A	675834	EPA 6020B	675916
92584718005	B-99	EPA 3005A	675834	EPA 6020B	675916

### REPORT OF LABORATORY ANALYSIS

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Document Name:  
Sample Condition Upon Receipt (SCUR)  
Document No.:  
F-CAR-C1-003-Rev.08

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

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: GA power

Project #: **WO#: 92584718**

Courier:  Commercial  Fed Ex  UPS  USPS  Client  Other: \_\_\_\_\_



92584718

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: MT 1/27/24

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Freeze?  Yes  No  N/A

Thermometer:  IR Gun ID: 084 Type of Ice:  Dry  Blue  None

Cooler Temp: 4.0 Correction Factor: +0.2  
Add/Subtract (°C)

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

Cooler Temp Corrected (°C): 4.2

USDA Regulated Soil (  N/A, water sample)

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

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

		Comments/Discrepancy
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3
Batch Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6
-Face Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7
Disurbed analytic: Samples Fird Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9
-Includes Date/Time/ID/Analysis Matrix:	<u>MT</u>	
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10
Triol Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11
Triol Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCUR Review: \_\_\_\_\_

Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_

Date: \_\_\_\_\_



Document Name:  
Bottle Identification Form (BIF)  
Document No.:  
I-CAR-CS-013-Rev.01

Document Issued: November 15, 2011  
Page 1 of 1  
Issuing Authority:  
Pace Carolina Quality Office

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

Exceptions: VOA, Coliform, TDC, Oil and Grease, DRO/BO13 (water) DOC, UMG

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

Project #

**W0# : 92584718**

PR: NRG

Due Date: 02/18/22

CLIENT: GR-GR Peuer

Matrix	Sample	1	2	3	4	5	6	7	8	9	10	11	12
BP40-125 mL Plastic Unpreserved (N/A) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
BP50-250 mL Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP50-500 mL Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP10-1 liter Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP40-125 mL Plastic HDPE (pH < 2) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
BP50-250 mL Plastic HDPE (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
BP40-125 mL Plastic DR Acetate & NaOH (pH)		/	/	/	/	/	/	/	/	/	/	/	/
BP40-125 mL Plastic NaOH (pH > 12) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
BP50-Whole-mouthed Glass Jar Unpreserved		/	/	/	/	/	/	/	/	/	/	/	/
AD10-1 liter Amber Unpreserved (N/A) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
AD10-1 liter Amber HD (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AD10-1/2 liter Amber Unpreserved (N/A) (D-1)		/	/	/	/	/	/	/	/	/	/	/	/
AD15-1 liter Amber HDPE (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AD25-250 mL Amber HDPE (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AD30-500 mL Amber HDPE (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
DO80-40 mL VOA HD (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VO81-40 mL VOA NaOH (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VO80-40 mL VOA Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
DO40-40 mL VOA HDPE (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VO40 (3 vials per 100-5000 L) (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V100 (3 vials per 100-10000 L) (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP5T-125 mL Borosil Plastic (N/A - 100)		/	/	/	/	/	/	/	/	/	/	/	/
BP5T-250 mL Borosil Plastic (N/A - 100)		/	/	/	/	/	/	/	/	/	/	/	/
BP5A-250 mL Plastic (HDPE) (D-1, 2)		/	/	/	/	/	/	/	/	/	/	/	/
AD50-200 mL Amber Unpreserved vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V650-20 mL Sealsolene vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
DO50-40 mL Amber Unpreserved vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/

**pH Adjustment Log for Preserved Samples**

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

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

*Signature*

### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a legal DOCUMENT. All required fields must be completed accurately.

Page 1 of 1

Section 1: Client Information		Section 2: Analytical Project Information		Section 3: Sample Information		Section 4: Laboratory Information	
Client Name	Client Address	Project #	Client Name	Sample ID	Sample Description	Project Name	Project Location
Client Contact	Client Phone	Project Start	Project End	Sample Date	Sample Time	Project Manager	Project Location
Client Email	Client Fax	Project Status	Project Budget	Sample Type	Sample Quantity	Project Status	Project Location
Client Website	Client FPO	Project Phase	Project Budget	Sample Type	Sample Quantity	Project Status	Project Location
<p><b>SAMPLE ID</b>            This document and this page are the property of the client. All rights reserved.            Sample ID must be unique</p>		<p><b>ANALYTICAL PROJECT INFORMATION</b></p> <p>Project # [ ] Client Name [ ]            Project Start [ ] Project End [ ]            Project Status [ ] Project Budget [ ]            Project Manager [ ] Project Location [ ]</p>		<p><b>SAMPLE INFORMATION</b></p> <p>Sample ID [ ] Sample Description [ ]            Sample Date [ ] Sample Time [ ]            Sample Type [ ] Sample Quantity [ ]</p>		<p><b>LABORATORY INFORMATION</b></p> <p>Project Name [ ] Project Location [ ]            Project Manager [ ] Project Status [ ]            Project Budget [ ] Project Location [ ]</p>	
Sample ID	Sample Description	Sample Date	Sample Time	Sample Type	Sample Quantity	Project Name	Project Location
4-00	...	...	...	...	...	...	...
4-01	...	...	...	...	...	...	...
4-02	...	...	...	...	...	...	...
4-03	...	...	...	...	...	...	...
4-04	...	...	...	...	...	...	...
4-05	...	...	...	...	...	...	...
4-06	...	...	...	...	...	...	...

1-27-02 8:12 PM  
 1-27-02 8:12 PM  
 1-27-02 8:12 PM

1-27-02  
 1-27-02  
 1-27-02



March 02, 2022

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

RE: Project: MCDONOUGH SUPPLEMENTAL RAD  
Pace Project No.: 92583576

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on January 20, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

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

Enclosures

cc: Stephen Benda  
Anna Bottum, ERM  
Andrea Brazell, ERM  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power  
Kristen Jurinko  
J. Shelby Mobley  
Charles Norton, Southern Company  
Ms. Lauren Petty, Southern Company  
Dawn Prell, Golder Associates Inc.  
Tim Richards, Golder Associates - Atlanta  
Lacy Smith, ERM  
Caitlin Tillema, ERM

Christine Weaver, ERM



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: MCDONOUGH SUPPLEMENTAL RAD  
Pace Project No.: 92583576

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### 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 SUPPLEMENTAL RAD  
Pace Project No.: 92583576

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92583576001	B-116D	Water	01/19/22 16:13	01/20/22 08:45
92583576002	B-117D	Water	01/19/22 12:20	01/20/22 08:45
92583576003	B-118	Water	01/19/22 13:44	01/20/22 08:45
92583576004	B-119D	Water	01/19/22 11:42	01/20/22 08:45
92583576005	EB-1	Water	01/19/22 13:25	01/20/22 08:45

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH SUPPLEMENTAL RAD  
 Pace Project No.: 92583576

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92583576001	B-116D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583576002	B-117D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583576003	B-118	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583576004	B-119D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92583576005	EB-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH SUPPLEMENTAL RAD

Pace Project No.: 92583576

**Sample: B-116D**      **Lab ID: 92583576001**      Collected: 01/19/22 16:13      Received: 01/20/22 08:45      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	<b>0.103 ± 0.0958 (0.179)</b> <b>C:92% T:NA</b>	pCi/L	02/14/22 10:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.934 ± 0.466 (0.815)</b> <b>C:70% T:82%</b>	pCi/L	02/03/22 10:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.04 ± 0.562 (0.994)</b>	pCi/L	02/17/22 07:02	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH SUPPLEMENTAL RAD

Pace Project No.: 92583576

**Sample: B-117D**      **Lab ID: 92583576002**      Collected: 01/19/22 12:20      Received: 01/20/22 08:45      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	<b>0.103 ± 0.100 (0.186)</b> <b>C:82% T:NA</b>	pCi/L	02/14/22 10:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.0219 ± 0.337 (0.781)</b> <b>C:72% T:79%</b>	pCi/L	02/03/22 10:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.125 ± 0.437 (0.967)</b>	pCi/L	02/17/22 07:02	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH SUPPLEMENTAL RAD

Pace Project No.: 92583576

**Sample: B-118**      **Lab ID: 92583576003**      Collected: 01/19/22 13:44      Received: 01/20/22 08:45      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	<b>0.0637 ± 0.0748 (0.148)</b> <b>C:97% T:NA</b>	pCi/L	02/14/22 10:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.768 ± 0.417 (0.744)</b> <b>C:74% T:77%</b>	pCi/L	02/03/22 10:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.832 ± 0.492 (0.892)</b>	pCi/L	02/17/22 07:02	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH SUPPLEMENTAL RAD

Pace Project No.: 92583576

**Sample: B-119D**      **Lab ID: 92583576004**      Collected: 01/19/22 11:42      Received: 01/20/22 08:45      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	<b>0.0374 ± 0.0744 (0.172)</b> <b>C:86% T:NA</b>	pCi/L	02/14/22 10:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.821 ± 0.508 (0.952)</b> <b>C:64% T:76%</b>	pCi/L	02/03/22 10:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.858 ± 0.582 (1.12)</b>	pCi/L	02/17/22 07:02	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: MCDONOUGH SUPPLEMENTAL RAD

Pace Project No.: 92583576

**Sample: EB-1**      **Lab ID: 92583576005**      Collected: 01/19/22 13:25      Received: 01/20/22 08:45      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	<b>0.0124 ± 0.0871 (0.224)</b> <b>C:92% T:NA</b>	pCi/L	02/14/22 10:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.00 ± 0.567 (1.05)</b> <b>C:61% T:82%</b>	pCi/L	02/03/22 10:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.01 ± 0.654 (1.27)</b>	pCi/L	02/17/22 07:02	7440-14-4	

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: MCDONOUGH SUPPLEMENTAL RAD  
 Pace Project No.: 92583576

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QC Batch: 480682	Analysis Method: EPA 9320
QC Batch Method: EPA 9320	Analysis Description: 9320 Radium 228
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92583576001, 92583576002, 92583576003, 92583576004, 92583576005

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METHOD BLANK: 2322658 Matrix: Water  
 Associated Lab Samples: 92583576001, 92583576002, 92583576003, 92583576004, 92583576005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.570 ± 0.392 (0.745) C:71% T:72%	pCi/L	02/03/22 10:11	

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

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: MCDONOUGH SUPPLEMENTAL RAD

Pace Project No.: 92583576

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QC Batch:	480871	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92583576001, 92583576002, 92583576003, 92583576004, 92583576005

---

METHOD BLANK: 2323618 Matrix: Water

Associated Lab Samples: 92583576001, 92583576002, 92583576003, 92583576004, 92583576005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.165 ± 0.131 (0.240) C:84% T:NA	pCi/L	02/14/22 09:25	

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

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## QUALIFIERS

Project: MCDONOUGH SUPPLEMENTAL RAD

Pace Project No.: 92583576

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH SUPPLEMENTAL RAD

Pace Project No.: 92583576

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583576001	B-116D	EPA 9315	480871		
92583576002	B-117D	EPA 9315	480871		
92583576003	B-118	EPA 9315	480871		
92583576004	B-119D	EPA 9315	480871		
92583576005	EB-1	EPA 9315	480871		
92583576001	B-116D	EPA 9320	480682		
92583576002	B-117D	EPA 9320	480682		
92583576003	B-118	EPA 9320	480682		
92583576004	B-119D	EPA 9320	480682		
92583576005	EB-1	EPA 9320	480682		
92583576001	B-116D	Total Radium Calculation	484431		
92583576002	B-117D	Total Radium Calculation	484431		
92583576003	B-118	Total Radium Calculation	484431		
92583576004	B-119D	Total Radium Calculation	484431		
92583576005	EB-1	Total Radium Calculation	484431		

### REPORT OF LABORATORY ANALYSIS

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

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

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Document Name:  
Upon Receipt

Client Name: GA Power CR Project #:

WO#: 92583576



Courier:  
 Commercial  Fed Ex  UPS  USPS  Other: Other  
 Pace

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 1/20/22  
(JH)

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  
 Yes  No SPK

Thermometer: 214 Type of Ice:  Dry  Blue  None

Cooler Temp: 5.6/20/2 Correction Factor: +0.1  
4.9 Add/Subtract (°F)

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

Cooler Temp Corrected (°C): 5.7/2.1/3.0/4.5  
USDA Regulated Soil (  N/A, water sample )  
Did samples originate in a quarantine zone within the United States: CA, HI, or SC (check maps)?  
 Yes  No

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

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Batch Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved Analytic Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>W</u>	
Headspace in VOC Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCUR Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_







## Quality Control Sample Performance Assessment

4. **Assessment**  
 Date: \_\_\_\_\_

5. **Assessment**  
 Date: \_\_\_\_\_

**Assessment**

1. **Assessment**

2. **Assessment**

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**Assessment**

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18. **Assessment**

19. **Assessment**

20. **Assessment**

6. **Assessment**  
 Date: \_\_\_\_\_

**Assessment**





January 31, 2022

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

RE: Project: MCDONOUGH SURFACE WATER  
Pace Project No.: 92583499

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on January 20, 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@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Stephen Benda  
Anna Bottum, ERM  
Andrea Brazell, ERM  
Daniela Herrera, Golder  
Ben Hodges, Georgia Power  
Kristen Jurinko  
J. Shelby Mobley  
Charles Norton, Southern Company  
Ms. Lauren Petty, Southern Company  
Dawn Prell, Golder Associates Inc.  
Tim Richards, Golder Associates - Atlanta  
Lacy Smith, ERM

Caitlin Tillema, ERM  
Christine Weaver, ERM



**REPORT OF LABORATORY ANALYSIS**

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## CERTIFICATIONS

Project: MCDONOUGH SURFACE WATER

Pace Project No.: 92583499

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### **Pace Analytical Services Charlotte**

South Carolina Laboratory ID: 99006

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

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### **Pace Analytical Services Peachtree Corners**

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

---

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: MCDONOUGH SURFACE WATER

Pace Project No.: 92583499

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92583499001	SW-1	Water	01/19/22 15:52	01/20/22 08:45
92583499002	SW-2	Water	01/19/22 15:04	01/20/22 08:45
92583499003	SW-3	Water	01/19/22 14:43	01/20/22 08:45
92583499004	SW-4	Water	01/19/22 14:18	01/20/22 08:45

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH SURFACE WATER

Pace Project No.: 92583499

---

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92583499001	SW-1	EPA 6020B	CW1	1
92583499002	SW-2	EPA 6020B	CW1	1
92583499003	SW-3	EPA 6020B	CW1	1
92583499004	SW-4	EPA 6020B	CW1	1

---

PASI-C = Pace Analytical Services - Charlotte

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

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### ANALYTICAL RESULTS

Project: MCDONOUGH SURFACE WATER

Pace Project No.: 92583499

**Sample: SW-1**      **Lab ID: 92583499001**      Collected: 01/19/22 15:52      Received: 01/20/22 08:45      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/20/22 11:25		
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pH	<b>6.84</b>	Std. Units			1		01/20/22 11:25		
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**6020 MET ICPMS**

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

Boron	<b>0.50</b>	mg/L	0.040	0.0086	1	01/20/22 12:51	01/24/22 14:56	7440-42-8	
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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH SURFACE WATER

Pace Project No.: 92583499

**Sample: SW-2**      **Lab ID: 92583499002**      Collected: 01/19/22 15:04      Received: 01/20/22 08:45      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/20/22 11:25		
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pH	<b>7.43</b>	Std. Units			1		01/20/22 11:25		
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**6020 MET ICPMS**

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

Boron	<b>0.091</b>	mg/L	0.040	0.0086	1	01/26/22 09:56	01/28/22 17:02	7440-42-8	
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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH SURFACE WATER

Pace Project No.: 92583499

**Sample: SW-3**      **Lab ID: 92583499003**      Collected: 01/19/22 14:43      Received: 01/20/22 08:45      Matrix: Water

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

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>CUSTOMER</b>				1		01/20/22 11:25		
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pH	<b>7.39</b>	Std. Units			1		01/20/22 11:25		
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**6020 MET ICPMS**

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

Boron	<b>0.20</b>	mg/L	0.040	0.0086	1	01/26/22 09:56	01/28/22 17:14	7440-42-8	
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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: MCDONOUGH SURFACE WATER

Pace Project No.: 92583499

**Sample: SW-4**      **Lab ID: 92583499004**      Collected: 01/19/22 14:18      Received: 01/20/22 08:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	<b>CUSTOMER</b>				1		01/20/22 11:25		
pH	<b>7.02</b>	Std. Units			1		01/20/22 11:25		
<b>6020 MET ICPMS</b>	Analytical Method: EPA 6020B    Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	<b>0.55</b>	mg/L	0.040	0.0086	1	01/26/22 09:56	01/28/22 17:19	7440-42-8	

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: MCDONOUGH SURFACE WATER  
 Pace Project No.: 92583499

QC Batch: 672826 Analysis Method: EPA 6020B  
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92583499001

METHOD BLANK: 3521770 Matrix: Water  
 Associated Lab Samples: 92583499001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	0.0086	01/21/22 15:28	

LABORATORY CONTROL SAMPLE: 3521771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.98	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3521772 3521773

Parameter	Units	3521772		3521773		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Boron	mg/L	0.50	1	1	1.5	1.5	99	98	75-125	0	20

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

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: MCDONOUGH SURFACE WATER  
 Pace Project No.: 92583499

QC Batch: 673907 Analysis Method: EPA 6020B  
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92583499002, 92583499003, 92583499004

METHOD BLANK: 3527228 Matrix: Water  
 Associated Lab Samples: 92583499002, 92583499003, 92583499004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	0.0086	01/28/22 14:51	

LABORATORY CONTROL SAMPLE: 3527229

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3527230 3527231

Parameter	Units	92583142001		3527231		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Boron	mg/L	ND	1	1	0.93	0.88	93	88	75-125	6	20

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

**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: MCDONOUGH SURFACE WATER

Pace Project No.: 92583499

---

### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH SURFACE WATER

Pace Project No.: 92583499

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92583499001	SW-1				
92583499002	SW-2				
92583499003	SW-3				
92583499004	SW-4				
92583499001	SW-1	EPA 3005A	672826	EPA 6020B	672836
92583499002	SW-2	EPA 3005A	673907	EPA 6020B	673938
92583499003	SW-3	EPA 3005A	673907	EPA 6020B	673938
92583499004	SW-4	EPA 3005A	673907	EPA 6020B	673938

### REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Upon Receipt

Client Name: GA Power CR Project #: \_\_\_\_\_

WO#: 92583499



Courier:  Fed Ex  UPS  USPS  Other \_\_\_\_\_  
 Commercial  Pace

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 1/20/22  
LOH

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Biological Tissue Frozen?  Yes  No

Thermometer:  Wet  Dry  Blue  None

Cooler Temp: 5.6/20/23 Correction Factor: +0.1  
 Cooler Temp Corrected (°C): 5.7/21/23/4/5

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 map)?  Yes  No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Let ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCUR Review: \_\_\_\_\_

Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_

Date: \_\_\_\_\_



Document Name:  
Sample Condition Upon Receipt (SCUR)

Document Revised: November 15, 2011  
Page 2 of 2

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

Issuing Authority:  
Pace Carolina Quality Office

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

Project #

WO# : 92583499

PR: NMC

Due Date: 02/03/22

CLIENT: GA-GA Power

~~Comprehensive Water Sampling and Analysis Report (CWSAR) Form~~

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

Pres#	Sample Description	1	2	3	4	5	6	7	8	9	10	11	12
BP10-125 ml. Plastic Unpreserved (N/A) (C-1)		/	/	/	/	/	/	/	/	/	/	/	/
BP10-250 ml. Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP20-500 ml. Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP10-1 liter Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP10-125 ml. Plastic HD504 (pH < 2) (C-1)		/	/	/	/	/	/	/	/	/	/	/	/
BP10-250 ml. plastic HD504 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
BP10-125 ml. Plastic 2L Acetone & NaOH (V)		/	/	/	/	/	/	/	/	/	/	/	/
BP10-125 ml. Plastic NaOH (pH > 12) (C-1)		/	/	/	/	/	/	/	/	/	/	/	/
WQ2U-Wide mouthed Glass Jar Unpreserved		/	/	/	/	/	/	/	/	/	/	/	/
MO10-1 liter Amber Unpreserved (N/A) (C-1)		/	/	/	/	/	/	/	/	/	/	/	/
MO10-1 liter Amber 100 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
MO10-250 ml. Amber Unpreserved (N/A) (C-1)		/	/	/	/	/	/	/	/	/	/	/	/
MO10-1 liter Amber HD504 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
MO10-250 ml. Amber HD504 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
MO10(DDMA)-250 ml. Amber NHD (N/A)(C-1)		/	/	/	/	/	/	/	/	/	/	/	/
VO10-40 ml. VOA 100 (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VO10-40 ml. VOA NaClO2 (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VO10-40 ml. VOA Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
DO10-40 ml. VOA HD504 (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VO10-10 vials per kit-1000 kit (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VO10-10 vials per kit-VFA/Clan kit (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP10-125 ml. Sterile Plastic (N/A) - 100)		/	/	/	/	/	/	/	/	/	/	/	/
BP10-250 ml. Sterile Plastic (N/A) - 100)		/	/	/	/	/	/	/	/	/	/	/	/
		/	/	/	/	/	/	/	/	/	/	/	/
BP10-250 ml. Plastic (HD504) (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
MO10-100 ml. Amber Unpreserved vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VO10-20 ml. Sonication vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
DO10-40 ml. Amber Unpreserved vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/

**pH Adjustment Log for Preserved Samples**

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

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



**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

**Section 1: Requester Information**  
 Agency Name: [Blank] Requester Name: [Blank]  
 Requester Title: [Blank] Requester Phone: [Blank]  
 Requester Email: [Blank]

**Section 2: Sample Information**  
 Sample ID: [Blank] Sample Description: [Blank]  
 Sample Type: [Blank] Sample Quantity: [Blank]

**Section 3: Collection Information**  
 Date/Time of Collection: [Blank] Location: [Blank]  
 Collector Name: [Blank] Collector Title: [Blank]

**Section 4: Laboratory Information**  
 Laboratory Name: [Blank] Laboratory Address: [Blank]  
 Laboratory Phone: [Blank] Laboratory Email: [Blank]

SAMPLE ID	DESCRIPTION	DATE/TIME	LOCATION	COLLECTOR	ANALYSIS TESTS		LABORATORY	ANALYST	DATE/TIME	STATUS
					TEST NAME	RESULT				
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										

**Section 5: Signatures and Dates**

Requester Signature: [Blank] Date: [Blank]

Collector Signature: [Blank] Date: [Blank]

Analyst Signature: [Blank] Date: [Blank]

Lab Director Signature: [Blank] Date: [Blank]



February 02, 2022

Kelley Sharpe  
ARCADIS - Atlanta  
2839 Paces Ferry Rd  
STE 900  
Atlanta, GA 30339

RE: Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92584543

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on January 26, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

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

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

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

Sincerely,

Maiya Parks  
maiya.parks@pacelabs.com  
(770)734-4200  
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR  
Ben Hodges, Georgia Power  
Warren Johnson, ARCADIS - Atlanta  
Allison Keefer, Southern Company



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92584543

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### **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

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### **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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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92584543

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92584543001	CR+0.4 (Mid)	Water	01/25/22 10:45	01/26/22 12:35
92584543002	CR+0.2 (Mid)	Water	01/25/22 10:53	01/26/22 12:35
92584543003	CR-0.1 (Mid)	Water	01/25/22 11:01	01/26/22 12:35
92584543004	DW_DS (Mid)	Water	01/25/22 11:09	01/26/22 12:35
92584543005	DW_US (Mid)	Water	01/25/22 11:15	01/26/22 12:35
92584543006	CR-0.2 (Mid)	Water	01/25/22 11:20	01/26/22 12:35
92584543007	CR-0.5 (Mid)	Water	01/25/22 11:28	01/26/22 12:35
92584543008	CR-0.8 (Mid)	Water	01/25/22 11:38	01/26/22 12:35

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### SAMPLE ANALYTE COUNT

Project: Plant McDonough CCR-Ash Pond  
 Pace Project No.: 92584543

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92584543001	CR+0.4 (Mid)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	4	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92584543002	CR+0.2 (Mid)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92584543003	CR-0.1 (Mid)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92584543004	DW_DS (Mid)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92584543005	DW_US (Mid)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92584543006	CR-0.2 (Mid)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	4	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92584543007	CR-0.5 (Mid)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	4	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92584543008	CR-0.8 (Mid)	EPA 6010D	KH	4	PASI-GA
		EPA 6020B	CW1	4	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

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

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92584543

Sample: CR+0.4 (Mid)	Lab ID: 92584543001	Collected: 01/25/22 10:45	Received: 01/26/22 12:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.8	mg/L	0.20	1	01/28/22 12:43	01/28/22 17:46	7440-09-7	
Sodium	7.7	mg/L	1.0	1	01/28/22 12:43	01/28/22 17:46	7440-23-5	
Calcium	5.3	mg/L	1.0	1	01/28/22 12:43	01/28/22 17:46	7440-70-2	
Magnesium	2.0	mg/L	0.050	1	01/28/22 12:43	01/28/22 17:46	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	01/31/22 11:43	02/02/22 00:23	7440-38-2	
Boron	ND	mg/L	0.040	1	01/31/22 11:43	01/31/22 18:57	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	01/31/22 11:43	01/31/22 18:57	7440-48-4	
Molybdenum	ND	mg/L	0.010	1	01/31/22 11:43	02/02/22 00:23	7439-98-7	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	55.0	mg/L	10.0	1		02/01/22 13:54		
<b>300.0 IC Anions 28 Days</b>								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	8.1	mg/L	1.0	1		01/27/22 23:37	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/27/22 23:37	16984-48-8	
Sulfate	5.5	mg/L	1.0	1		01/27/22 23:37	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92584543

Sample: CR+0.2 (Mid)	Lab ID: 92584543002	Collected: 01/25/22 10:53	Received: 01/26/22 12:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.8	mg/L	0.20	1	01/28/22 12:43	01/28/22 17:51	7440-09-7	
Sodium	8.9	mg/L	1.0	1	01/28/22 12:43	01/28/22 17:51	7440-23-5	
Calcium	7.8	mg/L	1.0	1	01/28/22 12:43	01/28/22 17:51	7440-70-2	
Magnesium	2.5	mg/L	0.050	1	01/28/22 12:43	01/28/22 17:51	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	0.062	mg/L	0.040	1	01/31/22 11:43	01/31/22 19:15	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	01/31/22 11:43	01/31/22 19:15	7440-48-4	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	63.0	mg/L	10.0	1		02/01/22 13:54		
<b>300.0 IC Anions 28 Days</b>								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	10.0	mg/L	1.0	1		01/27/22 23:51	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/27/22 23:51	16984-48-8	
Sulfate	9.3	mg/L	1.0	1		01/27/22 23:51	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92584543

Sample: CR-0.1 (Mid)	Lab ID: 92584543003	Collected: 01/25/22 11:01	Received: 01/26/22 12:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	3.1	mg/L	0.20	1	01/28/22 12:43	01/28/22 17:56	7440-09-7	
Sodium	8.3	mg/L	1.0	1	01/28/22 12:43	01/28/22 17:56	7440-23-5	
Calcium	6.0	mg/L	1.0	1	01/28/22 12:43	01/28/22 17:56	7440-70-2	
Magnesium	2.3	mg/L	0.050	1	01/28/22 12:43	01/28/22 17:56	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	01/31/22 11:43	01/31/22 19:21	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	01/31/22 11:43	01/31/22 19:21	7440-48-4	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	65.0	mg/L	10.0	1		02/01/22 13:54		
<b>300.0 IC Anions 28 Days</b>								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	9.5	mg/L	1.0	1		01/28/22 00:05	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/28/22 00:05	16984-48-8	
Sulfate	7.0	mg/L	1.0	1		01/28/22 00:05	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92584543

Sample: DW_DS (Mid)	Lab ID: 92584543004	Collected: 01/25/22 11:09	Received: 01/26/22 12:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	3.7	mg/L	0.20	1	01/28/22 12:43	01/28/22 18:01	7440-09-7	
Sodium	10.7	mg/L	1.0	1	01/28/22 12:43	01/28/22 18:01	7440-23-5	
Calcium	7.7	mg/L	1.0	1	01/28/22 12:43	01/28/22 18:01	7440-70-2	
Magnesium	2.9	mg/L	0.050	1	01/28/22 12:43	01/28/22 18:01	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	0.070	mg/L	0.040	1	01/31/22 11:43	01/31/22 19:27	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	01/31/22 11:43	01/31/22 19:27	7440-48-4	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	83.0	mg/L	10.0	1		02/01/22 13:54		
<b>300.0 IC Anions 28 Days</b>								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	11.4	mg/L	1.0	1		01/28/22 00:19	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/28/22 00:19	16984-48-8	
Sulfate	10.4	mg/L	1.0	1		01/28/22 00:19	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92584543

Sample: DW_US (Mid)	Lab ID: 92584543005	Collected: 01/25/22 11:15	Received: 01/26/22 12:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.8	mg/L	0.20	1	01/28/22 12:43	01/28/22 18:15	7440-09-7	
Sodium	7.4	mg/L	1.0	1	01/28/22 12:43	01/28/22 18:15	7440-23-5	
Calcium	5.1	mg/L	1.0	1	01/28/22 12:43	01/28/22 18:15	7440-70-2	
Magnesium	1.9	mg/L	0.050	1	01/28/22 12:43	01/28/22 18:15	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	01/31/22 11:43	01/31/22 19:33	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	01/31/22 11:43	01/31/22 19:33	7440-48-4	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	59.0	mg/L	10.0	1		02/01/22 13:54		
<b>300.0 IC Anions 28 Days</b>								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	7.8	mg/L	1.0	1		01/28/22 00:33	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/28/22 00:33	16984-48-8	
Sulfate	4.7	mg/L	1.0	1		01/28/22 00:33	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond  
 Pace Project No.: 92584543

Sample: CR-0.2 (Mid)	Lab ID: 92584543006	Collected: 01/25/22 11:20	Received: 01/26/22 12:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.8	mg/L	0.20	1	01/28/22 12:43	01/28/22 18:20	7440-09-7	
Sodium	7.4	mg/L	1.0	1	01/28/22 12:43	01/28/22 18:20	7440-23-5	
Calcium	5.1	mg/L	1.0	1	01/28/22 12:43	01/28/22 18:20	7440-70-2	
Magnesium	1.9	mg/L	0.050	1	01/28/22 12:43	01/28/22 18:20	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	01/31/22 11:43	02/02/22 00:29	7440-38-2	
Boron	ND	mg/L	0.040	1	01/31/22 11:43	01/31/22 19:39	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	01/31/22 11:43	01/31/22 19:39	7440-48-4	
Selenium	ND	mg/L	0.0050	1	01/31/22 11:43	01/31/22 19:39	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	61.0	mg/L	10.0	1		02/01/22 14:02		
<b>300.0 IC Anions 28 Days</b>								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	7.9	mg/L	1.0	1		01/28/22 01:15	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/28/22 01:15	16984-48-8	
Sulfate	4.7	mg/L	1.0	1		01/28/22 01:15	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92584543

Sample: CR-0.5 (Mid)	Lab ID: 92584543007	Collected: 01/25/22 11:28	Received: 01/26/22 12:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.8	mg/L	0.20	1	01/28/22 12:43	01/28/22 18:24	7440-09-7	
Sodium	7.5	mg/L	1.0	1	01/28/22 12:43	01/28/22 18:24	7440-23-5	
Calcium	6.6	mg/L	1.0	1	01/28/22 12:43	01/28/22 18:24	7440-70-2	
Magnesium	2.1	mg/L	0.050	1	01/28/22 12:43	01/28/22 18:24	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	01/31/22 11:43	02/02/22 00:35	7440-38-2	
Boron	0.046	mg/L	0.040	1	01/31/22 11:43	01/31/22 19:45	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	01/31/22 11:43	01/31/22 19:45	7440-48-4	
Selenium	ND	mg/L	0.0050	1	01/31/22 11:43	01/31/22 19:45	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	59.0	mg/L	10.0	1		02/01/22 14:03		
<b>300.0 IC Anions 28 Days</b>								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	8.2	mg/L	1.0	1		01/28/22 01:29	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/28/22 01:29	16984-48-8	
Sulfate	9.3	mg/L	1.0	1		01/28/22 01:29	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant McDonough CCR-Ash Pond  
 Pace Project No.: 92584543

Sample: CR-0.8 (Mid)	Lab ID: 92584543008	Collected: 01/25/22 11:38	Received: 01/26/22 12:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.9	mg/L	0.20	1	01/28/22 12:43	01/28/22 18:29	7440-09-7	
Sodium	7.3	mg/L	1.0	1	01/28/22 12:43	01/28/22 18:29	7440-23-5	
Calcium	5.4	mg/L	1.0	1	01/28/22 12:43	01/28/22 18:29	7440-70-2	
Magnesium	1.9	mg/L	0.050	1	01/28/22 12:43	01/28/22 18:29	7439-95-4	
<b>6020 MET ICPMS</b>								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	01/31/22 11:43	02/02/22 00:41	7440-38-2	
Boron	ND	mg/L	0.040	1	01/31/22 11:43	01/31/22 19:51	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	01/31/22 11:43	01/31/22 19:51	7440-48-4	
Selenium	ND	mg/L	0.0050	1	01/31/22 11:43	01/31/22 19:51	7782-49-2	
<b>2540C Total Dissolved Solids</b>								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	57.0	mg/L	10.0	1		02/01/22 14:07		
<b>300.0 IC Anions 28 Days</b>								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	8.0	mg/L	1.0	1		01/28/22 01:43	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/28/22 01:43	16984-48-8	
Sulfate	4.6	mg/L	1.0	1		01/28/22 01:43	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92584543

QC Batch: 674583

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92584543001, 92584543002, 92584543003, 92584543004, 92584543005, 92584543006, 92584543007, 92584543008

METHOD BLANK: 3530749

Matrix: Water

Associated Lab Samples: 92584543001, 92584543002, 92584543003, 92584543004, 92584543005, 92584543006, 92584543007, 92584543008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	01/28/22 16:50	
Magnesium	mg/L	ND	0.050	01/28/22 16:50	
Potassium	mg/L	ND	0.20	01/28/22 16:50	
Sodium	mg/L	ND	1.0	01/28/22 16:50	

LABORATORY CONTROL SAMPLE: 3530750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	.95J	95	80-120	
Magnesium	mg/L	1	0.98	98	80-120	
Potassium	mg/L	1	1.0	101	80-120	
Sodium	mg/L	1	1.1	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3530751 3530752

Parameter	Units	92584522001 Result	MS Spike Conc.	MSD Spike Conc.	3530751		3530752		% Rec Limits	RPD	Max RPD	Qual
					MS Result	MSD Result	MS % Rec	MSD % Rec				
Calcium	mg/L	16.2	1	1	17.1	16.7	86	47	75-125	2	20	M1
Magnesium	mg/L	3.5	1	1	4.4	4.4	89	84	75-125	1	20	
Potassium	mg/L	3.0	1	1	3.9	3.7	86	66	75-125	5	20	M1
Sodium	mg/L	16.3	1	1	17.0	16.7	71	33	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.: 92584543

QC Batch: 674904 Analysis Method: EPA 6020B  
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92584543001, 92584543002, 92584543003, 92584543004, 92584543005, 92584543006, 92584543007, 92584543008

METHOD BLANK: 3532552 Matrix: Water  
 Associated Lab Samples: 92584543001, 92584543002, 92584543003, 92584543004, 92584543005, 92584543006, 92584543007, 92584543008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	02/01/22 23:53	
Boron	mg/L	ND	0.040	01/31/22 18:03	
Cobalt	mg/L	ND	0.0050	01/31/22 18:03	
Molybdenum	mg/L	ND	0.010	01/31/22 18:03	
Selenium	mg/L	ND	0.0050	01/31/22 18:03	

LABORATORY CONTROL SAMPLE: 3532553

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.1	105	80-120	
Cobalt	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3532554 3532555

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92584522001 Result	Spike Conc.	Spike Conc.	MS Result						
Arsenic	mg/L	ND	0.1	0.1	0.11	0.11	106	106	75-125	0	20
Boron	mg/L	0.049	1	1	1.1	1.1	100	104	75-125	3	20
Cobalt	mg/L	ND	0.1	0.1	0.11	0.11	108	110	75-125	2	20
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	101	106	75-125	5	20
Selenium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20

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**QUALITY CONTROL DATA**

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92584543

QC Batch: 675199 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: 92584543001, 92584543002, 92584543003, 92584543004, 92584543005, 92584543006, 92584543007

METHOD BLANK: 3533876 Matrix: Water  
 Associated Lab Samples: 92584543001, 92584543002, 92584543003, 92584543004, 92584543005, 92584543006, 92584543007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/01/22 13:52	

LABORATORY CONTROL SAMPLE: 3533877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	378	94	80-120	

SAMPLE DUPLICATE: 3533878

Parameter	Units	92583953022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	256	269	5	25	

SAMPLE DUPLICATE: 3533879

Parameter	Units	92584522003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	135	137	1	25	

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**QUALITY CONTROL DATA**

Project: Plant McDonough CCR-Ash Pond  
 Pace Project No.: 92584543

QC Batch: 675202	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: 92584543008

METHOD BLANK: 3533883 Matrix: Water  
 Associated Lab Samples: 92584543008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/01/22 14:06	

LABORATORY CONTROL SAMPLE: 3533884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3533885

Parameter	Units	92584543008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	57.0	52.0	9	25	

SAMPLE DUPLICATE: 3533886

Parameter	Units	92585000001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	56.0	66.0	16	25	

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### QUALITY CONTROL DATA

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92584543

QC Batch:	674218	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples:	92584543001, 92584543002, 92584543003, 92584543004, 92584543005, 92584543006, 92584543007, 92584543008		

METHOD BLANK:	3528694	Matrix:	Water
Associated Lab Samples:	92584543001, 92584543002, 92584543003, 92584543004, 92584543005, 92584543006, 92584543007, 92584543008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	01/27/22 20:50	
Fluoride	mg/L	ND	0.10	01/27/22 20:50	
Sulfate	mg/L	ND	1.0	01/27/22 20:50	

LABORATORY CONTROL SAMPLE: 3528695						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.3	103	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	49.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3528696												3528697	
Parameter	Units	92584437011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Chloride	mg/L	10.0	50	50	61.4	61.5	103	103	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	106	108	90-110	2	10		
Sulfate	mg/L	5.0	50	50	55.8	55.3	102	101	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3528698												3528699	
Parameter	Units	92584543005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Chloride	mg/L	7.8	50	50	59.0	60.6	102	106	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	95	99	90-110	4	10		
Sulfate	mg/L	4.7	50	50	54.8	57.0	100	105	90-110	4	10		

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Plant McDonough CCR-Ash Pond  
Pace Project No.: 92584543

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### 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.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Plant McDonough CCR-Ash Pond

Pace Project No.: 92584543

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92584543001	CR+0.4 (Mid)	EPA 3010A	674583	EPA 6010D	674684
92584543002	CR+0.2 (Mid)	EPA 3010A	674583	EPA 6010D	674684
92584543003	CR-0.1 (Mid)	EPA 3010A	674583	EPA 6010D	674684
92584543004	DW_DS (Mid)	EPA 3010A	674583	EPA 6010D	674684
92584543005	DW_US (Mid)	EPA 3010A	674583	EPA 6010D	674684
92584543006	CR-0.2 (Mid)	EPA 3010A	674583	EPA 6010D	674684
92584543007	CR-0.5 (Mid)	EPA 3010A	674583	EPA 6010D	674684
92584543008	CR-0.8 (Mid)	EPA 3010A	674583	EPA 6010D	674684
92584543001	CR+0.4 (Mid)	EPA 3005A	674904	EPA 6020B	675004
92584543002	CR+0.2 (Mid)	EPA 3005A	674904	EPA 6020B	675004
92584543003	CR-0.1 (Mid)	EPA 3005A	674904	EPA 6020B	675004
92584543004	DW_DS (Mid)	EPA 3005A	674904	EPA 6020B	675004
92584543005	DW_US (Mid)	EPA 3005A	674904	EPA 6020B	675004
92584543006	CR-0.2 (Mid)	EPA 3005A	674904	EPA 6020B	675004
92584543007	CR-0.5 (Mid)	EPA 3005A	674904	EPA 6020B	675004
92584543008	CR-0.8 (Mid)	EPA 3005A	674904	EPA 6020B	675004
92584543001	CR+0.4 (Mid)	SM 2540C-2015	675199		
92584543002	CR+0.2 (Mid)	SM 2540C-2015	675199		
92584543003	CR-0.1 (Mid)	SM 2540C-2015	675199		
92584543004	DW_DS (Mid)	SM 2540C-2015	675199		
92584543005	DW_US (Mid)	SM 2540C-2015	675199		
92584543006	CR-0.2 (Mid)	SM 2540C-2015	675199		
92584543007	CR-0.5 (Mid)	SM 2540C-2015	675199		
92584543008	CR-0.8 (Mid)	SM 2540C-2015	675202		
92584543001	CR+0.4 (Mid)	EPA 300.0 Rev 2.1 1993	674218		
92584543002	CR+0.2 (Mid)	EPA 300.0 Rev 2.1 1993	674218		
92584543003	CR-0.1 (Mid)	EPA 300.0 Rev 2.1 1993	674218		
92584543004	DW_DS (Mid)	EPA 300.0 Rev 2.1 1993	674218		
92584543005	DW_US (Mid)	EPA 300.0 Rev 2.1 1993	674218		
92584543006	CR-0.2 (Mid)	EPA 300.0 Rev 2.1 1993	674218		
92584543007	CR-0.5 (Mid)	EPA 300.0 Rev 2.1 1993	674218		
92584543008	CR-0.8 (Mid)	EPA 300.0 Rev 2.1 1993	674218		

**REPORT OF LABORATORY ANALYSIS**

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**CHAIN-OF-CUSTODY / Analytical Request Worksheet**  
 The District-Courtesy of a Local Prosecutor in relevant legal case in compliance accuracy.

*Revised*

Sample 1

Sample 2

Sample 3

Page: 1 of 1

Agency: <b>Alameda County</b> Date: <b>March 01 2023</b> Requested Date: <b>March 01 2023</b>	Report No: <b>123456789</b> Date Recd: <b>March 01 2023</b> Analytical Code: <b>10000000</b>	Requested By: <b>John Doe</b> Date Recd: <b>March 01 2023</b> Analytical Code: <b>10000000</b>	Requested By: <b>John Doe</b> Date Recd: <b>March 01 2023</b> Analytical Code: <b>10000000</b>
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Item #	Description	QTY	Collection		Analysis										Remarks				
			Date	Time	1	2	3	4	5	6	7	8	9	10					
1	SEARCHED	1	03/01/23	10:00															
2	INDEXED	1	03/01/23	10:00															
3	SEARCHED	1	03/01/23	10:00															
4	INDEXED	1	03/01/23	10:00															
5	SEARCHED	1	03/01/23	10:00															
6	INDEXED	1	03/01/23	10:00															
7	SEARCHED	1	03/01/23	10:00															
8	INDEXED	1	03/01/23	10:00															
9	SEARCHED	1	03/01/23	10:00															
10	INDEXED	1	03/01/23	10:00															
11	SEARCHED	1	03/01/23	10:00															
12	INDEXED	1	03/01/23	10:00															

Case No: **92584543**

Requester: **John Doe**

Request Date: **03/01/23**

Request Time: **10:00 AM**

Requester Signature: *John Doe*

Requester Title: **Police Officer**

Requester Agency: **Alameda County Sheriff's Office**

Requester Address: **1234 Main St, Alameda, CA 94501**

Requester Phone: **(415) 555-1234**

Requester Email: **john.doe@alameda-sheriff.com**

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Knoxville



Client Name: Arborea

Project #: WO#: 92584543

Sample Type:  Food  Feed  Milk  Other  Plant  Other

PH: PP Due Date: 02/02/22  
 CL ID#: 00-00-00001

Secondary Seal Present?  Yes  No Seal Intact?  Yes  No

Development from Learning Curve: High/2  
Low

Packing Material:  Bubble Wrap  Bubble Bag:  None  Other

Biological Threat Present?  Yes  No  N/A

Thermometer:  In Use 2/14  Out of Use  None  None

Cooler Temp: 5.5 (Cooler Factor Add/Subtract (%)) 40/1

Temp should be above freezing to 6°C  
 Sample out of temperature range on cooling process  
 Full trace

Cooler Temp Calibration (°C) 5.8

USDA Regulated Soil  Yes  No  N/A

Do all items originate from a jurisdiction (state within the United States, CA, NY, or SC) where mass?  Yes  No

Will sample originate from a jurisdiction where we do not have a laboratory?  Yes  No  
 Commercial/Contingency

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1
Samples are sealed and tamper proof?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2
Mount Hold Time Analyte(s) $\geq 72$ hr?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	3
Event Logs attached (Table, Spreadsheet)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4
Sufficient volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5
Control Containers used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	6
Field Collected?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	7
Container sealed?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	8
Biological Sample, Serials, and Primary?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	9
Sample, Serials, and Primary?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	10
Includes Data/Time/ID/Location, etc.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	11
Handbook or VOA with IAS drawn?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	12
Trap Blank Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	13
Trap Blank Control Serials Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	14

PH: PP

W

COMMENTS/INTERNAL DISCUSSION: \_\_\_\_\_

Test Data Required?  Yes  No

Use ID of ICH container

CLIENT INFORMATION/REFERENCE

Person contacted: \_\_\_\_\_

Date: \_\_\_\_\_

Project Manager SCUR Review: \_\_\_\_\_

Date: \_\_\_\_\_

Project Manager SRR Review: \_\_\_\_\_

Date: \_\_\_\_\_



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

Project #

WO#: 92584543

PN: 01

CRIT: 00-00-0000

Doc Del: 02/02/22

Exception: VOA, Colorm, TOC, DI and Gravim, DRO, WIS (water), DOC, L&V

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

Sample	171 ml Plastic Unpreserved Bottle (S1)	171 ml Plastic Unpreserved Bottle (S2)	171 ml Plastic Unpreserved Bottle (S3)	171 ml Plastic Unpreserved Bottle (S4)	171 ml Plastic Unpreserved Bottle (S5)	171 ml Plastic Unpreserved Bottle (S6)	171 ml Plastic Unpreserved Bottle (S7)	171 ml Plastic Unpreserved Bottle (S8)	171 ml Plastic Unpreserved Bottle (S9)	171 ml Plastic Unpreserved Bottle (S10)	171 ml Plastic Unpreserved Bottle (S11)	171 ml Plastic Unpreserved Bottle (S12)	171 ml Plastic Unpreserved Bottle (S13)	171 ml Plastic Unpreserved Bottle (S14)	171 ml Plastic Unpreserved Bottle (S15)	171 ml Plastic Unpreserved Bottle (S16)	171 ml Plastic Unpreserved Bottle (S17)	171 ml Plastic Unpreserved Bottle (S18)	171 ml Plastic Unpreserved Bottle (S19)	171 ml Plastic Unpreserved Bottle (S20)
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservation	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of preservation adjust	Lot #

Note: Whenever there is a discrepancy affecting Sample Collection, completion, delivery, a copy of this form will be provided to the North Carolina Quality Control Section Office. A copy of this form will also be provided to the project location.



February 02, 2022

Maiya Parks  
Pace Analytical Atlanta

110 Technology Pkwy  
Peachtree Corners GA 30092

RE: 92584543

Dear Maiya Parks:

Order No: 2201S79

Analytical Environmental Services, Inc. received 8 samples on 1/27/2022 7:43:00 AM for the analyses presented in following report.

“No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.

AES’s accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/21-06/30/22.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/22 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/23.

These results relate only to the items tested as received. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi  
Project Manager

# Chain of Custody

PASI Charlotte Laboratory



Workorder: 82584543

Workorder Name: Plant McDonough DCR-Ash Pond

Results Requested By: 2/2/2022

2201579



Report / Invoice To			Subcontract To			Requested Analysis														
Malys Parks Pace Analytical Atlanta 110 Technology Parkway Peachtree Corners, GA 30092 Phone (770)734-4200 Email: malys.parks@pacelabs.com			AES Atlanta			P.O. 82584543MP														

State of Sample Origin: GA

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers					20008 Alkalinity	LAB USE ONLY
					Unopened						
1	CR-0.4 Ml	1/25/2022 10:45	82584543001	Water	1					X	
2	CR-0.2 Ml	1/25/2022 10:50	82584543002	Water	1					X	
3	CR-0.1 Ml	1/25/2022 11:01	82584543003	Water	1					X	
4	DW_05 Ml	1/25/2022 11:08	82584543004	Water	1					X	
5	DW_08 Ml	1/25/2022 11:10	82584543005	Water	1					X	
6	CR-0.2 Ml	1/25/2022 11:20	82584543006	Water	1					X	
7	CR-0.5 Ml	1/25/2022 11:28	82584543007	Water	1					X	
8	CR-0.8 Ml	1/25/2022 11:38	82584543008	Water	1					X	
9											
10											
11											
12											

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	<i>Evan Williams / PMA</i>	<i>1/25/2022</i>	<i>Dustin Campbell</i>	<i>1/25/2022</i>	Total & Bicarb Alk
2					
3					

Cooler Temperature on Receipt	°C	Custody Seal	Y or N	Received on Ice	Y or N	Samples Intact	Y or N
-------------------------------	----	--------------	--------	-----------------	--------	----------------	--------

<b>Client:</b> Pace Analytical Atlanta	<b>Client Sample ID:</b> CR+0.4 MID
<b>Project Name:</b> 92584543	<b>Collection Date:</b> 1/25/2022 10:45:00 AM
<b>Lab ID:</b> 2201S79-001	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>CARBON DIOXIDE</b>								
<b>SM4500-CO2-D</b>								
Bicarbonate Alkalinity	23.4	10.0		mg/L	R476367	1	02/01/2022 12:43	GY
<b>Alkalinity by SM2320B</b>								
Alkalinity, Total (As CaCO3)	23.4	3.00		mg/L	R476367	1	02/01/2022 12:43	GY

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> Pace Analytical Atlanta	<b>Client Sample ID:</b> CR+0.2 MID
<b>Project Name:</b> 92584543	<b>Collection Date:</b> 1/25/2022 10:53:00 AM
<b>Lab ID:</b> 2201S79-002	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>CARBON DIOXIDE</b> <b>SM4500-CO2-D</b>								
Bicarbonate Alkalinity	24.2	10.0		mg/L	R476367	1	02/01/2022 12:43	GY
<b>Alkalinity by SM2320B</b>								
Alkalinity, Total (As CaCO3)	24.2	3.00		mg/L	R476367	1	02/01/2022 12:43	GY

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Pace Analytical Atlanta	<b>Client Sample ID:</b> CR-0.1 MID
<b>Project Name:</b> 92584543	<b>Collection Date:</b> 1/25/2022 11:01:00 AM
<b>Lab ID:</b> 2201S79-003	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>CARBON DIOXIDE SM4500-CO2-D</b>								
Bicarbonate Alkalinity	24.4	10.0		mg/L	R476367	1	02/01/2022 12:43	GY
<b>Alkalinity by SM2320B</b>								
Alkalinity, Total (As CaCO3)	24.4	3.00		mg/L	R476367	1	02/01/2022 12:43	GY

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Pace Analytical Atlanta	<b>Client Sample ID:</b> DW_DS MID
<b>Project Name:</b> 92584543	<b>Collection Date:</b> 1/25/2022 11:09:00 AM
<b>Lab ID:</b> 2201S79-004	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>CARBON DIOXIDE SM4500-CO2-D</b>								
Bicarbonate Alkalinity	25.8	10.0		mg/L	R476367	1	02/01/2022 12:43	GY
<b>Alkalinity by SM2320B</b>								
Alkalinity, Total (As CaCO3)	25.8	3.00		mg/L	R476367	1	02/01/2022 12:43	GY

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Pace Analytical Atlanta	<b>Client Sample ID:</b> DW_US MID
<b>Project Name:</b> 92584543	<b>Collection Date:</b> 1/25/2022 11:15:00 AM
<b>Lab ID:</b> 2201S79-005	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>CARBON DIOXIDE</b> <b>SM4500-CO2-D</b>								
Bicarbonate Alkalinity	22.4	10.0		mg/L	R476367	1	02/01/2022 12:43	GY
<b>Alkalinity by SM2320B</b>								
Alkalinity, Total (As CaCO3)	22.4	3.00		mg/L	R476367	1	02/01/2022 12:43	GY

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Pace Analytical Atlanta	<b>Client Sample ID:</b> CR-0.2 MID
<b>Project Name:</b> 92584543	<b>Collection Date:</b> 1/25/2022 11:20:00 AM
<b>Lab ID:</b> 2201S79-006	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>CARBON DIOXIDE SM4500-CO2-D</b>								
Bicarbonate Alkalinity	20.4	10.0		mg/L	R476367	1	02/01/2022 12:43	GY
<b>Alkalinity by SM2320B</b>								
Alkalinity, Total (As CaCO3)	20.4	3.00		mg/L	R476367	1	02/01/2022 12:43	GY

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Pace Analytical Atlanta	<b>Client Sample ID:</b> CR-0.5 MID
<b>Project Name:</b> 92584543	<b>Collection Date:</b> 1/25/2022 11:28:00 AM
<b>Lab ID:</b> 2201S79-007	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>CARBON DIOXIDE SM4500-CO2-D</b>								
Bicarbonate Alkalinity	23.3	10.0		mg/L	R476367	1	02/01/2022 12:43	GY
<b>Alkalinity by SM2320B</b>								
Alkalinity, Total (As CaCO3)	23.3	3.00		mg/L	R476367	1	02/01/2022 12:43	GY

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Pace Analytical Atlanta	<b>Client Sample ID:</b> CR-0.8MID
<b>Project Name:</b> 92584543	<b>Collection Date:</b> 1/25/2022 11:38:00 AM
<b>Lab ID:</b> 2201S79-008	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>CARBON DIOXIDE SM4500-CO2-D</b>								
Bicarbonate Alkalinity	21.0	10.0		mg/L	R476367	1	02/01/2022 12:43	GY
<b>Alkalinity by SM2320B</b>								
Alkalinity, Total (As CaCO3)	21.0	3.00		mg/L	R476367	1	02/01/2022 12:43	GY

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit



SAMPLE/COOLER RECEIPT CHECKLIST

Clear

Save as

1. Client Name: Pace Analytical AES Work Order Number: 2201579

2. Carrier: FedEx Client USPS Courier Other

Table with 5 columns: Question, Yes, No, N/A, Details, Comments. Contains items 3-12 regarding shipping conditions, seals, temperature, and TAT.

13. Cooler 1 Temperature 0.7 Cooler 2 Temperature Cooler 3 Temperature Cooler 4 Temperature
14. Cooler 5 Temperature Cooler 6 Temperature Cooler 7 Temperature Cooler 8 Temperature

15. Comments: I certify that I have completed sections 1-15 (dated initials). DS 1/27/22

Table with 5 columns: Question, Yes, No, N/A, Details, Comments. Contains items 16-26 regarding container integrity, COC, and analysis requests.

27. Comments: I certify that I have completed sections 16-27 (dated initials). DS 1/27/22

Table with 5 columns: Question, Yes, No, N/A, Details, Comments. Contains items 28-30 regarding chemical preservation and pH adjustment.

31. Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and OI & Grease/TPH.
32. This also excludes metals by EPA 200.7, 200.8 and 245.1 which will be verified between 16 and 24 hours after preservation.





Client: Pace Analytical Atlanta  
 Project Name: 92584543  
 Workorder: 2201S79

**ANALYTICAL QC SUMMARY REPORT**

BatchID: R476367

Sample ID: <b>LCS-R476367</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>476367</b>							
SampleType: <b>LCS</b>	TestCode: <b>Alkalinity by SM2320B</b>	BatchID: <b>R476367</b>	Analysis Date: <b>02/01/2022</b>	Seq No: <b>10996213</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)	126.5	3.00	125.0		101	90	110				
------------------------------	-------	------	-------	--	-----	----	-----	--	--	--	--

Sample ID: <b>2201U12-001DDUP</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>476367</b>							
SampleType: <b>DUP</b>	TestCode: <b>Alkalinity by SM2320B</b>	BatchID: <b>R476367</b>	Analysis Date: <b>02/01/2022</b>	Seq No: <b>10996217</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)	47.21	3.00						43.36	8.49	30	
------------------------------	-------	------	--	--	--	--	--	-------	------	----	--

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

End of Report

**APPENDIX B**

**Analytical Result**

**June 2022**



June 21, 2022

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

RE: Project: MCDONOUGH BACKGROUND  
Pace Project No.: 92608499

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between June 08, 2022 and June 10, 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@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Stephen Benda, Southern Company  
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

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### CERTIFICATIONS

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

---

**Pace Analytical Services Charlotte**

South Carolina Laboratory ID: 99006

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

---

**Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

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**Pace Analytical Services Peachtree Corners**

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

---

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: MCDONOUGH BACKGROUND  
Pace Project No.: 92608499

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92608499001	DGWC-121	Water	06/06/22 11:59	06/08/22 10:35
92608499002	B-122D	Water	06/06/22 11:30	06/08/22 10:35
92608499003	DUP-1	Water	06/06/22 00:00	06/08/22 10:35
92608499004	FB-1	Water	06/07/22 16:35	06/08/22 10:35
92608499005	EB-1	Water	06/06/22 12:00	06/08/22 10:35
92608499006	B-123D	Water	06/09/22 17:18	06/10/22 13:12

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92608499001	DGWC-121	EPA 6010D	DRB	6
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	ZMC	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92608499002	B-122D	EPA 6010D	DRB	6
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	ZMC	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92608499003	DUP-1	EPA 6010D	DRB	6
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	ZMC	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92608499004	FB-1	EPA 6010D	DRB	6
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	ZMC	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92608499005	EB-1	EPA 6010D	DRB	6
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	ZMC	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92608499006	B-123D	EPA 6010D	DRB	6
		EPA 6020B	KH	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2011	ZMC	1
		EPA 300.0 Rev 2.1 1993	JCM	3

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
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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 BACKGROUND

Pace Project No.: 92608499

**Sample: DGWC-121**      **Lab ID: 92608499001**      Collected: 06/06/22 11:59      Received: 06/08/22 10:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		06/08/22 12:37		
pH	<b>6.33</b>	Std. Units			1		06/08/22 12:37		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>4.3</b>	mg/L	0.040	0.025	1	06/10/22 11:00	06/10/22 19:16	7439-89-6	
Manganese	<b>1.2</b>	mg/L	0.040	0.0043	1	06/10/22 11:00	06/10/22 19:16	7439-96-5	
Potassium	<b>4.1</b>	mg/L	0.20	0.15	1	06/10/22 11:00	06/10/22 19:16	7440-09-7	
Sodium	<b>11.0</b>	mg/L	1.0	0.58	1	06/10/22 11:00	06/10/22 19:16	7440-23-5	
Calcium	<b>44.1</b>	mg/L	1.0	0.12	1	06/10/22 11:00	06/10/22 19:16	7440-70-2	
Magnesium	<b>12.3</b>	mg/L	0.050	0.012	1	06/10/22 11:00	06/10/22 19:16	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B      Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	06/10/22 09:50	06/14/22 21:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	06/10/22 09:50	06/14/22 21:00	7440-38-2	
Barium	<b>0.040</b>	mg/L	0.0050	0.00067	1	06/10/22 09:50	06/14/22 21:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	06/10/22 09:50	06/14/22 21:00	7440-41-7	
Boron	<b>1.4</b>	mg/L	0.040	0.0086	1	06/10/22 09:50	06/14/22 21:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	06/10/22 09:50	06/14/22 21:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	06/10/22 09:50	06/15/22 15:55	7440-47-3	
Cobalt	<b>0.0028J</b>	mg/L	0.0050	0.00039	1	06/10/22 09:50	06/15/22 15:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	06/10/22 09:50	06/14/22 21:00	7439-92-1	
Lithium	<b>0.013J</b>	mg/L	0.030	0.00073	1	06/10/22 09:50	06/14/22 21:00	7439-93-2	
Molybdenum	<b>0.00093J</b>	mg/L	0.010	0.00074	1	06/10/22 09:50	06/14/22 21:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	06/10/22 09:50	06/14/22 21:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	06/10/22 09:50	06/14/22 21:00	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A      Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	06/20/22 16:00	06/21/22 09:21	7439-97-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO3)	<b>113</b>	mg/L	5.0	5.0	1		06/10/22 17:45		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/10/22 17:45		
Alkalinity, Total as CaCO3	<b>113</b>	mg/L	5.0	5.0	1		06/10/22 17:45		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Asheville									
Total Dissolved Solids	<b>270</b>	mg/L	25.0	25.0	1		06/10/22 15:26		

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### ANALYTICAL RESULTS

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

Sample: DGWC-121 Lab ID: 92608499001 Collected: 06/06/22 11:59 Received: 06/08/22 10:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	4.7	mg/L	1.0	0.60	1		06/13/22 00:30	16887-00-6	
Fluoride	0.056J	mg/L	0.10	0.050	1		06/13/22 00:30	16984-48-8	
Sulfate	83.9	mg/L	1.0	0.50	1		06/13/22 00:30	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

Sample: B-122D		Lab ID: 92608499002		Collected: 06/06/22 11:30		Received: 06/08/22 10:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		06/08/22 12:37		
pH	6.02	Std. Units			1		06/08/22 12:37		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	10.9	mg/L	0.040	0.025	1	06/10/22 11:00	06/10/22 19:21	7439-89-6	
Manganese	3.2	mg/L	0.040	0.0043	1	06/10/22 11:00	06/10/22 19:21	7439-96-5	
Potassium	3.5	mg/L	0.20	0.15	1	06/10/22 11:00	06/10/22 19:21	7440-09-7	
Sodium	25.4	mg/L	1.0	0.58	1	06/10/22 11:00	06/10/22 19:21	7440-23-5	
Calcium	48.3	mg/L	1.0	0.12	1	06/10/22 11:00	06/10/22 19:21	7440-70-2	
Magnesium	8.6	mg/L	0.050	0.012	1	06/10/22 11:00	06/10/22 19:21	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	06/10/22 09:50	06/14/22 21:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	06/10/22 09:50	06/14/22 21:06	7440-38-2	
Barium	0.039	mg/L	0.0050	0.00067	1	06/10/22 09:50	06/14/22 21:06	7440-39-3	
Beryllium	0.00024J	mg/L	0.00050	0.000054	1	06/10/22 09:50	06/14/22 21:06	7440-41-7	
Boron	0.20	mg/L	0.040	0.0086	1	06/10/22 09:50	06/14/22 21:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	06/10/22 09:50	06/14/22 21:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	06/10/22 09:50	06/15/22 16:01	7440-47-3	
Cobalt	0.0060	mg/L	0.0050	0.00039	1	06/10/22 09:50	06/15/22 16:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	06/10/22 09:50	06/14/22 21:06	7439-92-1	
Lithium	0.013J	mg/L	0.030	0.00073	1	06/10/22 09:50	06/14/22 21:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	06/10/22 09:50	06/14/22 21:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	06/10/22 09:50	06/14/22 21:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	06/10/22 09:50	06/14/22 21:06	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	06/20/22 16:00	06/21/22 09:23	7439-97-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO3)	117	mg/L	5.0	5.0	1		06/10/22 17:55		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/10/22 17:55		
Alkalinity, Total as CaCO3	117	mg/L	5.0	5.0	1		06/10/22 17:55		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Asheville									
Total Dissolved Solids	307	mg/L	25.0	25.0	1		06/10/22 15:26		

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### ANALYTICAL RESULTS

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

Sample: B-122D Lab ID: 92608499002 Collected: 06/06/22 11:30 Received: 06/08/22 10:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	18.4	mg/L	1.0	0.60	1		06/13/22 00:45	16887-00-6	
Fluoride	0.20	mg/L	0.10	0.050	1		06/13/22 00:45	16984-48-8	
Sulfate	97.7	mg/L	1.0	0.50	1		06/13/22 00:45	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

Sample: DUP-1	Lab ID: 92608499003	Collected: 06/06/22 00:00	Received: 06/08/22 10:35	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	3.9	mg/L	0.040	0.025	1	06/10/22 11:00	06/10/22 19:25	7439-89-6	
Manganese	1.2	mg/L	0.040	0.0043	1	06/10/22 11:00	06/10/22 19:25	7439-96-5	
Potassium	3.8	mg/L	0.20	0.15	1	06/10/22 11:00	06/10/22 19:25	7440-09-7	
Sodium	10.2	mg/L	1.0	0.58	1	06/10/22 11:00	06/10/22 19:25	7440-23-5	
Calcium	41.0	mg/L	1.0	0.12	1	06/10/22 11:00	06/10/22 19:25	7440-70-2	
Magnesium	11.3	mg/L	0.050	0.012	1	06/10/22 11:00	06/10/22 19:25	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	06/10/22 09:50	06/14/22 21:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	06/10/22 09:50	06/14/22 21:12	7440-38-2	
Barium	0.043	mg/L	0.0050	0.00067	1	06/10/22 09:50	06/14/22 21:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	06/10/22 09:50	06/14/22 21:12	7440-41-7	
Boron	1.4	mg/L	0.040	0.0086	1	06/10/22 09:50	06/14/22 21:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	06/10/22 09:50	06/14/22 21:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	06/10/22 09:50	06/15/22 16:07	7440-47-3	
Cobalt	0.0030J	mg/L	0.0050	0.00039	1	06/10/22 09:50	06/15/22 16:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	06/10/22 09:50	06/14/22 21:12	7439-92-1	
Lithium	0.014J	mg/L	0.030	0.00073	1	06/10/22 09:50	06/14/22 21:12	7439-93-2	
Molybdenum	0.00096J	mg/L	0.010	0.00074	1	06/10/22 09:50	06/14/22 21:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	06/10/22 09:50	06/14/22 21:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	06/10/22 09:50	06/14/22 21:12	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	06/20/22 16:00	06/21/22 09:26	7439-97-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	110	mg/L	5.0	5.0	1		06/10/22 18:05		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/10/22 18:05		
Alkalinity, Total as CaCO3	110	mg/L	5.0	5.0	1		06/10/22 18:05		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Asheville									
Total Dissolved Solids	275	mg/L	25.0	25.0	1		06/10/22 15:26		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	4.7	mg/L	1.0	0.60	1		06/13/22 01:01	16887-00-6	
Fluoride	0.058J	mg/L	0.10	0.050	1		06/13/22 01:01	16984-48-8	
Sulfate	84.0	mg/L	1.0	0.50	1		06/13/22 01:01	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

**Sample: FB-1**      **Lab ID: 92608499004**      Collected: 06/07/22 16:35      Received: 06/08/22 10:35      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	06/10/22 11:00	06/10/22 19:39	7439-89-6	
Manganese	ND	mg/L	0.040	0.0043	1	06/10/22 11:00	06/10/22 19:39	7439-96-5	
Potassium	ND	mg/L	0.20	0.15	1	06/10/22 11:00	06/10/22 19:39	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	06/10/22 11:00	06/10/22 19:39	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	06/10/22 11:00	06/10/22 19:39	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	06/10/22 11:00	06/10/22 19:39	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	06/10/22 09:50	06/14/22 21:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	06/10/22 09:50	06/14/22 21:18	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	06/10/22 09:50	06/14/22 21:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	06/10/22 09:50	06/14/22 21:18	7440-41-7	
Boron	<b>0.015J</b>	mg/L	0.040	0.0086	1	06/10/22 09:50	06/14/22 21:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	06/10/22 09:50	06/14/22 21:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	06/10/22 09:50	06/15/22 16:13	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	06/10/22 09:50	06/15/22 16:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	06/10/22 09:50	06/14/22 21:18	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	06/10/22 09:50	06/14/22 21:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	06/10/22 09:50	06/14/22 21:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	06/10/22 09:50	06/14/22 21:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	06/10/22 09:50	06/14/22 21:18	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	06/20/22 16:00	06/21/22 09:29	7439-97-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/10/22 19:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/10/22 19:46		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		06/10/22 19:46		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Asheville									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		06/10/22 15:28		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		06/13/22 01:17	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		06/13/22 01:17	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		06/13/22 01:17	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

**Sample: EB-1**      **Lab ID: 92608499005**      Collected: 06/06/22 12:00      Received: 06/08/22 10:35      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	06/10/22 11:00	06/10/22 19:44	7439-89-6	
Manganese	ND	mg/L	0.040	0.0043	1	06/10/22 11:00	06/10/22 19:44	7439-96-5	
Potassium	ND	mg/L	0.20	0.15	1	06/10/22 11:00	06/10/22 19:44	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	06/10/22 11:00	06/10/22 19:44	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	06/10/22 11:00	06/10/22 19:44	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	06/10/22 11:00	06/10/22 19:44	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	06/10/22 09:50	06/14/22 21:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	06/10/22 09:50	06/14/22 21:24	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	06/10/22 09:50	06/14/22 21:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	06/10/22 09:50	06/14/22 21:24	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	06/10/22 09:50	06/14/22 21:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	06/10/22 09:50	06/14/22 21:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	06/10/22 09:50	06/15/22 16:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	06/10/22 09:50	06/15/22 16:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	06/10/22 09:50	06/14/22 21:24	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	06/10/22 09:50	06/14/22 21:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	06/10/22 09:50	06/14/22 21:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	06/10/22 09:50	06/14/22 21:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	06/10/22 09:50	06/14/22 21:24	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	06/20/22 16:00	06/21/22 09:31	7439-97-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/10/22 18:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/10/22 18:14		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		06/10/22 18:14		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Asheville									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		06/10/22 15:26		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		06/13/22 02:05	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		06/13/22 02:05	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		06/13/22 02:05	14808-79-8	

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### ANALYTICAL RESULTS

Project: MCDONOUGH BACKGROUND

Project No.: 92608499

**Sample: B-123D**      **Lab ID: 92608499006**      Collected: 06/09/22 17:18      Received: 06/10/22 13:12      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		06/10/22 15:04		
pH	<b>6.48</b>	Std. Units			1		06/10/22 15:04		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>24.2</b>	mg/L	0.040	0.025	1	06/14/22 10:36	06/14/22 20:58	7439-89-6	
Manganese	<b>8.9</b>	mg/L	0.040	0.0043	1	06/14/22 10:36	06/14/22 20:58	7439-96-5	
Potassium	<b>10.9</b>	mg/L	0.20	0.15	1	06/14/22 10:36	06/14/22 20:58	7440-09-7	BC
Sodium	<b>35.2</b>	mg/L	1.0	0.58	1	06/14/22 10:36	06/14/22 20:58	7440-23-5	
Calcium	<b>90.4</b>	mg/L	1.0	0.12	1	06/14/22 10:36	06/14/22 20:58	7440-70-2	
Magnesium	<b>15.4</b>	mg/L	0.050	0.012	1	06/14/22 10:36	06/14/22 20:58	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B      Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	06/16/22 11:03	06/18/22 10:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	06/16/22 11:03	06/18/22 10:39	7440-38-2	
Barium	<b>0.028</b>	mg/L	0.0050	0.00067	1	06/16/22 11:03	06/18/22 10:39	7440-39-3	
Beryllium	<b>0.0020</b>	mg/L	0.00050	0.000054	1	06/16/22 11:03	06/18/22 10:39	7440-41-7	
Boron	<b>0.55</b>	mg/L	0.040	0.0086	1	06/16/22 11:03	06/18/22 10:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	06/16/22 11:03	06/18/22 10:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	06/16/22 11:03	06/18/22 10:39	7440-47-3	
Cobalt	<b>0.068</b>	mg/L	0.0050	0.00039	1	06/16/22 11:03	06/18/22 10:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	06/16/22 11:03	06/18/22 10:39	7439-92-1	
Lithium	<b>0.031</b>	mg/L	0.030	0.00073	1	06/16/22 11:03	06/18/22 10:39	7439-93-2	
Molybdenum	<b>0.0017J</b>	mg/L	0.010	0.00074	1	06/16/22 11:03	06/18/22 10:39	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	06/16/22 11:03	06/18/22 10:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	06/16/22 11:03	06/18/22 10:39	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A      Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	06/20/22 16:00	06/21/22 09:34	7439-97-6	
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO3)	<b>65.7</b>	mg/L	5.0	5.0	1		06/16/22 13:21		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/16/22 13:21		
Alkalinity, Total as CaCO3	<b>65.7</b>	mg/L	5.0	5.0	1		06/16/22 13:21		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville									
Total Dissolved Solids	<b>602</b>	mg/L	50.0	50.0	1		06/15/22 15:21		

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### ANALYTICAL RESULTS

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

Sample: B-123D Lab ID: 92608499006 Collected: 06/09/22 17:18 Received: 06/10/22 13:12 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	13.2	mg/L	1.0	0.60	1		06/14/22 10:19	16887-00-6	
Fluoride	0.48	mg/L	0.10	0.050	1		06/14/22 10:19	16984-48-8	
Sulfate	175	mg/L	7.0	3.5	7		06/14/22 15:38	14808-79-8	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

QC Batch: 703611 Analysis Method: EPA 6010D  
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92608499001, 92608499002, 92608499003, 92608499004, 92608499005

METHOD BLANK: 3671695 Matrix: Water  
 Associated Lab Samples: 92608499001, 92608499002, 92608499003, 92608499004, 92608499005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	06/10/22 18:47	
Iron	mg/L	ND	0.040	0.025	06/10/22 18:47	
Magnesium	mg/L	ND	0.050	0.012	06/10/22 18:47	
Manganese	mg/L	ND	0.040	0.0043	06/10/22 18:47	
Potassium	mg/L	ND	0.20	0.15	06/10/22 18:47	
Sodium	mg/L	ND	1.0	0.58	06/10/22 18:47	

LABORATORY CONTROL SAMPLE: 3671696

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	1.0	103	80-120	
Manganese	mg/L	1	1.0	105	80-120	
Potassium	mg/L	1	1.1	111	80-120	
Sodium	mg/L	1	1.1	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3671697 3671698

Parameter	Units	3671697		3671698		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	53500 ug/L	1	1	57.2	55.6	373	206	75-125	3	20 M1
Iron	mg/L	2720 ug/L	1	1	4.0	3.8	131	112	75-125	5	20 M1
Magnesium	mg/L	11400 ug/L	1	1	13.0	12.6	160	120	75-125	3	20 M1
Manganese	mg/L	61.8 ug/L	1	1	1.1	1.0	101	95	75-125	6	20
Potassium	mg/L	4880 ug/L	1	1	6.1	5.9	118	104	75-125	2	20
Sodium	mg/L	22700 ug/L	1	1	24.9	24.2	219	154	75-125	3	20 M1

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### QUALITY CONTROL DATA

Project: MCDONOUGH BACKGROUND  
 Pace Project No.: 92608499

QC Batch: 704300 Analysis Method: EPA 6010D  
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92608499006

METHOD BLANK: 3675119 Matrix: Water  
 Associated Lab Samples: 92608499006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	06/14/22 19:23	
Iron	mg/L	ND	0.040	0.025	06/14/22 19:23	
Magnesium	mg/L	ND	0.050	0.012	06/14/22 19:23	
Manganese	mg/L	ND	0.040	0.0043	06/14/22 19:23	
Potassium	mg/L	ND	0.20	0.15	06/16/22 10:47	
Sodium	mg/L	ND	1.0	0.58	06/14/22 19:23	

LABORATORY CONTROL SAMPLE: 3675120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	106	80-120	
Iron	mg/L	1	1.1	110	80-120	
Magnesium	mg/L	1	1.1	110	80-120	
Manganese	mg/L	1	1.0	104	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Sodium	mg/L	1	1.1	115	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3675121 3675122

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92609119001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	24000 ug/L	1	1	25.2	25.5	117	148	75-125	1	20 M1
Iron	mg/L	422 ug/L	1	1	1.5	2.0	109	161	75-125	29	20 M1,R1
Magnesium	mg/L	8010 ug/L	1	1	9.1	9.3	112	125	75-125	1	20
Manganese	mg/L	81.3 ug/L	1	1	1.1	1.1	101	103	75-125	1	20
Potassium	mg/L	2870 ug/L	1	1	3.9	4.0	104	111	75-125	2	20
Sodium	mg/L	9260 ug/L	1	1	10.4	10.5	111	121	75-125	1	20

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**QUALITY CONTROL DATA**

Project: MCDONOUGH BACKGROUND  
 Pace Project No.: 92608499

QC Batch: 703475 Analysis Method: EPA 6020B  
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92608499001, 92608499002, 92608499003, 92608499004, 92608499005

METHOD BLANK: 3671195 Matrix: Water  
 Associated Lab Samples: 92608499001, 92608499002, 92608499003, 92608499004, 92608499005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	06/14/22 19:31	
Arsenic	mg/L	0.0031J	0.0050	0.0022	06/14/22 19:31	
Barium	mg/L	ND	0.0050	0.00067	06/14/22 19:31	
Beryllium	mg/L	ND	0.00050	0.000054	06/14/22 19:31	
Boron	mg/L	ND	0.040	0.0086	06/14/22 19:31	
Cadmium	mg/L	ND	0.00050	0.00011	06/14/22 19:31	
Chromium	mg/L	ND	0.0050	0.0011	06/15/22 14:04	
Cobalt	mg/L	ND	0.0050	0.00039	06/15/22 14:04	
Lead	mg/L	ND	0.0010	0.00089	06/14/22 19:31	
Lithium	mg/L	ND	0.030	0.00073	06/14/22 19:31	
Molybdenum	mg/L	ND	0.010	0.00074	06/14/22 19:31	
Selenium	mg/L	ND	0.0050	0.0014	06/14/22 19:31	
Thallium	mg/L	ND	0.0010	0.00018	06/14/22 19:31	

LABORATORY CONTROL SAMPLE: 3671196

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	110	80-120	
Arsenic	mg/L	0.1	0.11	109	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.11	108	80-120	
Boron	mg/L	1	0.93	93	80-120	
Cadmium	mg/L	0.1	0.10	104	80-120	
Chromium	mg/L	0.1	0.11	106	80-120	
Cobalt	mg/L	0.1	0.10	104	80-120	
Lead	mg/L	0.1	0.10	104	80-120	
Lithium	mg/L	0.1	0.11	110	80-120	
Molybdenum	mg/L	0.1	0.11	105	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3671197 3671198

Parameter	Units	92608455001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	109	108	75-125	1	20	
Arsenic	mg/L	21.7 ug/L	0.1	0.1	0.12	0.12	102	103	75-125	1	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

Parameter	Units	92608455001		3671197		3671198		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Barium	mg/L	365 ug/L	0.1	0.1	0.43	0.44	68	75	75-125	2	20	M1		
Beryllium	mg/L	ND	0.1	0.1	0.087	0.090	87	90	75-125	3	20			
Boron	mg/L	ND	1	1	0.90	0.93	89	92	75-125	3	20			
Cadmium	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20			
Chromium	mg/L	ND	0.1	0.1	0.094	0.094	94	94	75-125	0	20			
Cobalt	mg/L	40.2 ug/L	0.1	0.1	0.13	0.13	90	93	75-125	2	20			
Lead	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20			
Lithium	mg/L	186 ug/L	0.1	0.1	0.26	0.28	78	90	75-125	4	20			
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	106	106	75-125	0	20			
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20			
Thallium	mg/L	ND	0.1	0.1	0.097	0.096	96	95	75-125	1	20			

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**QUALITY CONTROL DATA**

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

QC Batch:	704902	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92608499006

METHOD BLANK: 3678021 Matrix: Water

Associated Lab Samples: 92608499006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	06/16/22 17:47	
Arsenic	mg/L	0.0036J	0.0050	0.0022	06/16/22 17:47	
Barium	mg/L	ND	0.0050	0.00067	06/16/22 17:47	
Beryllium	mg/L	ND	0.00050	0.000054	06/16/22 17:47	
Boron	mg/L	0.0090J	0.040	0.0086	06/16/22 17:47	
Cadmium	mg/L	ND	0.00050	0.00011	06/16/22 17:47	
Chromium	mg/L	ND	0.0050	0.0011	06/16/22 17:47	
Cobalt	mg/L	ND	0.0050	0.00039	06/16/22 17:47	
Lead	mg/L	ND	0.0010	0.00089	06/16/22 17:47	
Lithium	mg/L	ND	0.030	0.00073	06/16/22 17:47	
Molybdenum	mg/L	ND	0.010	0.00074	06/16/22 17:47	
Selenium	mg/L	ND	0.0050	0.0014	06/16/22 17:47	
Thallium	mg/L	ND	0.0010	0.00018	06/16/22 17:47	

LABORATORY CONTROL SAMPLE: 3678022

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	103	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	0.96	96	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.10	105	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3678023 3678024

Parameter	Units	92607331013 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	109	106	75-125	3	20	
Arsenic	mg/L	7.3 ug/L	0.1	0.1	0.11	0.11	101	99	75-125	2	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

Parameter	Units	92607331013		3678023		3678024		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Barium	mg/L	23.7 ug/L	0.1	0.1	0.13	0.12	103	101	75-125	2	20			
Beryllium	mg/L	ND	0.1	0.1	0.096	0.092	95	92	75-125	4	20			
Boron	mg/L	ND	1	1	1.0	0.96	96	92	75-125	4	20			
Cadmium	mg/L	1.0 ug/L	0.1	0.1	0.10	0.098	99	97	75-125	2	20			
Chromium	mg/L	7.8 ug/L	0.1	0.1	0.11	0.11	105	104	75-125	1	20			
Cobalt	mg/L	ND	0.1	0.1	0.10	0.099	100	98	75-125	2	20			
Lead	mg/L	ND	0.1	0.1	0.098	0.097	98	96	75-125	2	20			
Lithium	mg/L	ND	0.1	0.1	0.097	0.095	94	91	75-125	3	20			
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	107	106	75-125	1	20			
Selenium	mg/L	ND	0.1	0.1	0.099	0.099	99	98	75-125	1	20			
Thallium	mg/L	ND	0.1	0.1	0.10	0.098	100	97	75-125	2	20			

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**QUALITY CONTROL DATA**

Project: MCDONOUGH BACKGROUND  
 Pace Project No.: 92608499

QC Batch: 705643 Analysis Method: EPA 7470A  
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92608499001, 92608499002, 92608499003, 92608499004, 92608499005, 92608499006

METHOD BLANK: 3681813 Matrix: Water  
 Associated Lab Samples: 92608499001, 92608499002, 92608499003, 92608499004, 92608499005, 92608499006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	06/21/22 08:44	

LABORATORY CONTROL SAMPLE: 3681814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0022	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3681815 3681816

Parameter	Units	3681815		3681816		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Mercury	mg/L	0.54 ug/L	0.0025	0.0025	0.0028	0.0028	90	89	75-125	1	20	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH BACKGROUND  
 Pace Project No.: 92608499

QC Batch: 703445 Analysis Method: SM 2320B-2011  
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
 Laboratory: Pace Analytical Services - Asheville  
 Associated Lab Samples: 92608499001, 92608499002, 92608499003, 92608499004, 92608499005

METHOD BLANK: 3670973 Matrix: Water  
 Associated Lab Samples: 92608499001, 92608499002, 92608499003, 92608499004, 92608499005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	06/10/22 15:57	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	06/10/22 15:57	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	06/10/22 15:57	

LABORATORY CONTROL SAMPLE: 3670974

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: 3670975

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.4	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3670976 3670977

Parameter	Units	92608636004		3670976		3670977		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Alkalinity, Total as CaCO3	mg/L	104	50	50	153	156	99	104	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3670978 3670979

Parameter	Units	92608443007		3670978		3670979		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Alkalinity, Total as CaCO3	mg/L	271	50	50	282	270	22	-1	80-120	4	25 M1	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

QC Batch: 704687

Analysis Method: SM 2320B-2011

QC Batch Method: SM 2320B-2011

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92608499006

METHOD BLANK: 3677119

Matrix: Water

Associated Lab Samples: 92608499006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	06/16/22 10:22	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	06/16/22 10:22	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	06/16/22 10:22	

LABORATORY CONTROL SAMPLE: 3677120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.2	104	80-120	

LABORATORY CONTROL SAMPLE: 3677121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.4	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3677122 3677123

Parameter	Units	3677122		3677123		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Alkalinity, Total as CaCO3	mg/L	118	50	168	50	101	98	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3677124 3677125

Parameter	Units	3677124		3677125		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Alkalinity, Total as CaCO3	mg/L	58.7	50	115	50	112	112	80-120	0	25	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

QC Batch: 703670

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: 92608499001, 92608499002, 92608499003, 92608499004, 92608499005

METHOD BLANK: 3672024

Matrix: Water

Associated Lab Samples: 92608499001, 92608499002, 92608499003, 92608499004, 92608499005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	06/10/22 15:25	

LABORATORY CONTROL SAMPLE: 3672025

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	248	99	90-110	

SAMPLE DUPLICATE: 3672026

Parameter	Units	92608690001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	39.0	48.0	21	25	

SAMPLE DUPLICATE: 3672027

Parameter	Units	92608443007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	724	724	0	25	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

QC Batch: 704499

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: 92608499006

METHOD BLANK: 3676294

Matrix: Water

Associated Lab Samples: 92608499006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	06/15/22 15:21	

LABORATORY CONTROL SAMPLE: 3676295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	260	104	90-110	

SAMPLE DUPLICATE: 3676296

Parameter	Units	92608499006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	602	596	1	25	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

QC Batch:	703503	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92608499001, 92608499002, 92608499003, 92608499004

METHOD BLANK: 3671431 Matrix: Water  
 Associated Lab Samples: 92608499001, 92608499002, 92608499003, 92608499004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	06/12/22 17:35	
Fluoride	mg/L	ND	0.10	0.050	06/12/22 17:35	
Sulfate	mg/L	ND	1.0	0.50	06/12/22 17:35	

LABORATORY CONTROL SAMPLE: 3671432

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.2	106	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	50	52.1	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3671433 3671434

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92608242001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	20.8	50	50	50	71.3	71.4	101	101	90-110	0	10	
Fluoride	mg/L	9.1	2.5	2.5	2.5	9.7	9.9	22	29	90-110	2	10	M1
Sulfate	mg/L	617	50	50	50	623	643	13	53	90-110	3	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3671435 3671436

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92608298001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	10.0	50	50	50	60.4	61.0	101	102	90-110	1	10	
Fluoride	mg/L	0.14	2.5	2.5	2.5	2.5	2.6	95	97	90-110	2	10	
Sulfate	mg/L	12.0	50	50	50	62.0	62.5	100	101	90-110	1	10	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

QC Batch: 703506	Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92608499005

METHOD BLANK: 3671443 Matrix: Water

Associated Lab Samples: 92608499005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	06/13/22 01:33	
Fluoride	mg/L	ND	0.10	0.050	06/13/22 01:33	
Sulfate	mg/L	ND	1.0	0.50	06/13/22 01:33	

LABORATORY CONTROL SAMPLE: 3671444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.7	107	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	52.3	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3671445 3671446

Parameter	Units	92608499005		3671446		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MSD Result	MSD Spike Conc.						
Chloride	mg/L	ND	50	50.6	51.1	101	102	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.3	2.3	92	92	90-110	0	10	
Sulfate	mg/L	ND	50	50.0	50.5	100	101	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3671447 3671448

Parameter	Units	92608422005		3671448		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MSD Result	MSD Spike Conc.						
Chloride	mg/L	84.5	50	126	125	82	81	90-110	0	10 M1	
Fluoride	mg/L	ND	2.5	2.4	2.5	95	97	90-110	1	10	
Sulfate	mg/L	ND	50	50.9	51.1	101	101	90-110	0	10	

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**QUALITY CONTROL DATA**

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

QC Batch:	704146	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92608499006

METHOD BLANK: 3674655 Matrix: Water

Associated Lab Samples: 92608499006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	06/14/22 07:09	
Fluoride	mg/L	ND	0.10	0.050	06/14/22 07:09	
Sulfate	mg/L	ND	1.0	0.50	06/14/22 07:09	

LABORATORY CONTROL SAMPLE: 3674656

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	54.1	108	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	52.5	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3674657 3674658

Parameter	Units	92608869024		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual	
Chloride	mg/L	7260	50	50	7230	7340	-53	157	90-110	1	10	M1	
Fluoride	mg/L	ND	2.5	2.5	5.7J	5.5J	32	24	90-110		10	D3,M1	
Sulfate	mg/L	950	50	50	977	990	55	80	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3674766 3674767

Parameter	Units	92608137004		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual	
Chloride	mg/L	13.8	50	50	65.3	65.6	103	103	90-110	0	10		
Fluoride	mg/L	0.15	2.5	2.5	2.6	2.7	100	101	90-110	1	10		
Sulfate	mg/L	11.6	50	50	62.5	63.0	102	103	90-110	1	10		

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## QUALIFIERS

Project: MCDONOUGH BACKGROUND

Pace Project No.: 92608499

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

BC The same analyte was detected in an associated blank at a concentration above 1/2 the reporting limit but below the laboratory reporting limit.

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 BACKGROUND

Pace Project No.: 92608499

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92608499001	DGWC-121				
92608499002	B-122D				
92608499006	B-123D				
92608499001	DGWC-121	EPA 3010A	703611	EPA 6010D	703726
92608499002	B-122D	EPA 3010A	703611	EPA 6010D	703726
92608499003	DUP-1	EPA 3010A	703611	EPA 6010D	703726
92608499004	FB-1	EPA 3010A	703611	EPA 6010D	703726
92608499005	EB-1	EPA 3010A	703611	EPA 6010D	703726
92608499006	B-123D	EPA 3010A	704300	EPA 6010D	704368
92608499001	DGWC-121	EPA 3005A	703475	EPA 6020B	703757
92608499002	B-122D	EPA 3005A	703475	EPA 6020B	703757
92608499003	DUP-1	EPA 3005A	703475	EPA 6020B	703757
92608499004	FB-1	EPA 3005A	703475	EPA 6020B	703757
92608499005	EB-1	EPA 3005A	703475	EPA 6020B	703757
92608499006	B-123D	EPA 3005A	704902	EPA 6020B	705008
92608499001	DGWC-121	EPA 7470A	705643	EPA 7470A	705689
92608499002	B-122D	EPA 7470A	705643	EPA 7470A	705689
92608499003	DUP-1	EPA 7470A	705643	EPA 7470A	705689
92608499004	FB-1	EPA 7470A	705643	EPA 7470A	705689
92608499005	EB-1	EPA 7470A	705643	EPA 7470A	705689
92608499006	B-123D	EPA 7470A	705643	EPA 7470A	705689
92608499001	DGWC-121	SM 2320B-2011	703445		
92608499002	B-122D	SM 2320B-2011	703445		
92608499003	DUP-1	SM 2320B-2011	703445		
92608499004	FB-1	SM 2320B-2011	703445		
92608499005	EB-1	SM 2320B-2011	703445		
92608499006	B-123D	SM 2320B-2011	704687		
92608499001	DGWC-121	SM 2540C-2011	703670		
92608499002	B-122D	SM 2540C-2011	703670		
92608499003	DUP-1	SM 2540C-2011	703670		
92608499004	FB-1	SM 2540C-2011	703670		
92608499005	EB-1	SM 2540C-2011	703670		
92608499006	B-123D	SM 2540C-2011	704499		
92608499001	DGWC-121	EPA 300.0 Rev 2.1 1993	703503		
92608499002	B-122D	EPA 300.0 Rev 2.1 1993	703503		
92608499003	DUP-1	EPA 300.0 Rev 2.1 1993	703503		
92608499004	FB-1	EPA 300.0 Rev 2.1 1993	703503		
92608499005	EB-1	EPA 300.0 Rev 2.1 1993	703506		
92608499006	B-123D	EPA 300.0 Rev 2.1 1993	704146		

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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# : 92608499**

Courier:  Commercial  Fed Ex  UPS  USPS  Other



Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining 6/2/22

Packing Material:  Bubble Wrap  Bubble Bags  Foam  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  Gun ID: 083 Type of Ice:  Dry  Blue  None

Cooler Temp: 3.2 Correction Factor: Add/Subtract (°C) +0.2

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

Cooler Temp Corrected (°C): 3.4

USDA Regulated Soil (  N/A, water sample)

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

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

					Comments/Discrepancy
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1	
Samples Arrived within Hold Time?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2	
Short Hold Time Analysis (<22 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	3	
Batch Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	4	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	6	
-Face Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	7	
Disclosed analysis: Samples Field Filtered?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	8	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	9	
Includes Date/Time/ID/Analysis Matrix	<u>W</u>				
Headspace in VOA Vials (>5-gram)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	10	
Trip Blank Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_



DCB\_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/ROES (water) DOC, LUM

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

\*\*\*Check g/l unpreserved Nitrates for chlorine

Project #

**WO# : 92608499**

PR: NRG

Due Date: 08/22/22

CLIENT: GR-GR Power

Sample ID	Quantity	1	2	3	4	5	6	7	8	9	10	11	12
BP10-125 mL Plastic Unpreserved (N/A) (C-)													
BP10-150 mL Plastic Unpreserved (N/A)		2	2	2	2	2							
BP10-500 mL Plastic Unpreserved (N/A)		1	1	1	1	1							
BP10-1 liter Plastic Unpreserved (N/A)													
BP40-125 mL Plastic H2SO4 (pH < 2) (C-)													
BP10-250 mL Plastic HNO3 (pH < 2)													
BP42-125 mL Plastic 2N Acetic & NaOH (C-)													
BP40-125 mL Plastic NaOH (pH > 12) (C-)													
W100-1000-unsupplied Glass jar Unpreserved													
A010-1 liter Amber Unpreserved (N/A) (C-)													
A010-1 liter Amber HC (pH < 2)													
A010-250 mL Amber Unpreserved (N/A) (C-)													
A010-1 liter Amber H2SO4 (pH < 2)													
A010-250 mL Amber HNO3 (pH < 2)													
D004-250 mL Amber HNO3 (NO3) (C-)													
D004-50 mL VOA HC (N/A)													
V001-50 mL VOA Na2SO3 (N/A)													
V004-50 mL VOA Unpreserved (N/A)													
D004-50 mL VOA H2PO4 (N/A)													
S005-50 mL VOA H2SO4 (N/A)													
V004 (2 vials per lot) H2SO4 (N/A)													
SP10-125 mL Sterile Plastic (N/A - lot)													
SP10-250 mL Sterile Plastic (N/A - lot)													
<i>BRIN</i>													
BP10-250 mL Plastic (H2SO4 2N, HNO3 2N)													
A004-100 mL Amber Unpreserved (N/A) (C-)													
V004-20 mL Sterilization vials (N/A)													
D004-50 mL Amber Unpreserved vials (N/A)													

**pH Adjustment Log for Preserved Samples**

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

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



**CHAIN-OF-CUSTODY / Analytical Request Document**  
 This Document Outline is a UFGA - 0001 (REV. 11/17) All relevant fields must be completed accurately

Page: 1 of 1

<b>Section A</b>	<b>Section B</b>	<b>Section C</b>
Request Date/Time: _____ Requester: _____ Requester Title: _____ Requester Phone: _____ Requester Email: _____ Requester Fax: _____	Requested Analyte: _____ Requested Method: _____ Requested Quantity: _____ Requested Packaging: _____ Requested Container: _____ Requested Label: _____ Requested Location: _____	Analytical Laboratory: _____ Analytical Method: _____ Analytical Instrument: _____ Analytical Software: _____ Analytical Personnel: _____ Analytical Date: _____ Analytical Time: _____

Item #	Description	Quantity	Unit	Container	Material	Analysis Test	Preparation		Packaging		Remarks
							Method	Time	Material	Time	
1	Sample 1	1	g	1	1	1	1	1	1	1	
2	Sample 2	1	g	1	1	1	1	1	1	1	
3	Sample 3	1	g	1	1	1	1	1	1	1	
4	Sample 4	1	g	1	1	1	1	1	1	1	
5	Sample 5	1	g	1	1	1	1	1	1	1	
6	Sample 6	1	g	1	1	1	1	1	1	1	
7	Sample 7	1	g	1	1	1	1	1	1	1	
8	Sample 8	1	g	1	1	1	1	1	1	1	
9	Sample 9	1	g	1	1	1	1	1	1	1	
10	Sample 10	1	g	1	1	1	1	1	1	1	
11	Sample 11	1	g	1	1	1	1	1	1	1	
12	Sample 12	1	g	1	1	1	1	1	1	1	
13	Sample 13	1	g	1	1	1	1	1	1	1	
14	Sample 14	1	g	1	1	1	1	1	1	1	

Requested by: \_\_\_\_\_  
 Date: 6-8-22  
 Signature: \_\_\_\_\_

**Laboratory receiving samples:**

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: GA Power Project #:

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_

Date/Initial Person Examining Contents: 12/14/21

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  Off Site ID: 214 Type of Ice:  Dry  Brine  None

Cooler Temp: 1.1 Correction Factor: Add/Subtract (C) + .1

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

Cooler Temp Corrected (C): 1.2

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		2.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		6.
Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		9.
Includes Date/Time/ID/Analysis Matrix	<u>WT</u>		
Headspace in VOA Vials (>1.6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCUR Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_



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, DRD/BD15 (water) DOC, U/ig

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

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

Project #

Item#	Item#	1	2	3	4	5	6	7	8	9	10	11	12
BP4U-125 ml, Plastic Unpreserved (N/A) (D-)													
BP5U-250 ml, Plastic Unpreserved (N/A)		2											
BP5U-500 ml, Plastic Unpreserved (N/A)		1											
BP1U-1 liter Plastic Unpreserved (N/A)													
BP4S-125 ml, Plastic HCl/NaOH (pH < 2) (D-)													
BP3M-250 ml, plastic HNO3 (pH < 2)													
BP4S-125 ml, Plastic 2N Acetate & NaOH (pH)													
BP4S-125 ml, Plastic NaOH (pH > 12) (D-)													
WSPU-Whole unfiltered water for Unpreserved													
AS1U-1 liter Amber Unpreserved (N/A) (D-)													
AS1A-1 liter Amber (D) (pH < 2)													
AS2U-250 ml, Amber Unpreserved (N/A) (D-)													
AS1S-1 liter Amber HCl/NaOH (pH < 2)													
AS1S-250 ml, Amber HCl/NaOH (pH < 2)													
DC1M-250 ml, Amber HNO3 (N/A)(D-)													
DC1M-40 ml, VOA HCl (N/A)													
VO1T-40 ml, VOA HCl/NaOH (N/A)													
VO1U-40 ml, VOA Unpreserved (N/A)													
DC1M-40 ml, VOA HCl/NaOH (N/A)													
DC1M-40 ml, VOA HCl/NaOH (N/A)													
V-100 (3 vials per 100-vial/cass for (N/A)													
SP1T-125 ml, Sterile Plastic (N/A) - Lab													
SP1T-250 ml, Sterile Plastic (N/A) - Lab													
BP3S-250 ml, Plastic HCl/NaOH (pH 3-5.7)													
AS2U-100 ml, Amber Unpreserved (N/A) (D-)													
VO1U-20 ml, Stabilization vial (N/A)													
DC1U-40 ml, Amber Unpreserved vial (N/A)													

N2  
BPIN

**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 DCR Certification Office i.e. Out of field, incorrect preservative, out of temp, incorrect containers.

*Revised*

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

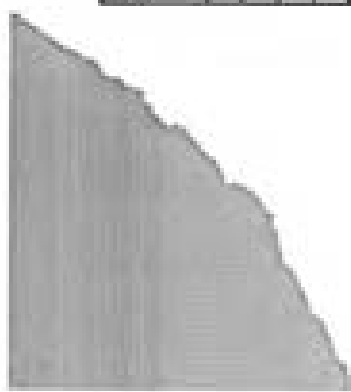
Page: 1 of 1

Section A Request Chain-of-Custody		Section B Request Project Information		Section C Request Information	
Requester Name: <u>Joe Contreras</u>	Requester Title: <u>Case Manager</u>	Project Name: <u>Case # 15123</u>	Request Date: <u>6/10/2012</u>	Requester Agency: <u>San Diego County Sheriff's Dept</u>	Requester Address: <u>15123 Main St, San Diego, CA 92112</u>
Requester Phone: <u>619-555-1234</u>	Requester Email: <u>jcontreras@sdcsd.org</u>	Project Location: <u>San Diego County Jail</u>	Requester Contact: <u>Joe Contreras</u>	Requester Agency: <u>San Diego County Sheriff's Dept</u>	Requester Agency: <u>San Diego County Sheriff's Dept</u>
Requester Fax: <u>619-555-5678</u>	Requester Title: <u>Case Manager</u>	Requester Agency: <u>San Diego County Sheriff's Dept</u>	Requester Agency: <u>San Diego County Sheriff's Dept</u>	Requester Agency: <u>San Diego County Sheriff's Dept</u>	Requester Agency: <u>San Diego County Sheriff's Dept</u>

Item #	Description	Quantity	Unit	Date	Time	Signature	Title	Analysis Test		Remarks
								GC/MS	GC/MS	
1	SAMPLE ID This document is a LEGAL DOCUMENT. Samples are marked unique.	1	UNIT	6/10/2012	10:00	[Signature]	Analyst	<input type="checkbox"/>	<input type="checkbox"/>	per 15123
2								<input type="checkbox"/>	<input type="checkbox"/>	
3								<input type="checkbox"/>	<input type="checkbox"/>	
4								<input type="checkbox"/>	<input type="checkbox"/>	
5								<input type="checkbox"/>	<input type="checkbox"/>	
6								<input type="checkbox"/>	<input type="checkbox"/>	
7								<input type="checkbox"/>	<input type="checkbox"/>	
8								<input type="checkbox"/>	<input type="checkbox"/>	
9								<input type="checkbox"/>	<input type="checkbox"/>	
10								<input type="checkbox"/>	<input type="checkbox"/>	
11								<input type="checkbox"/>	<input type="checkbox"/>	
12								<input type="checkbox"/>	<input type="checkbox"/>	
13								<input type="checkbox"/>	<input type="checkbox"/>	
14								<input type="checkbox"/>	<input type="checkbox"/>	

Additional Comments: Juste witness pack - 15123 / 6/10/2012

Signature: [Signature] Date: 6/10/2012





July 25, 2022

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

RE: Project: MCDONOUGH BACKGROUND RAD  
Pace Project No.: 92608485

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between June 08, 2022 and June 10, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

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

Enclosures

cc: Stephen Benda, Southern Company  
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

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## CERTIFICATIONS

Project: MCDONOUGH BACKGROUND RAD  
Pace Project No.: 92608485

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### 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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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: MCDONOUGH BACKGROUND RAD

Pace Project No.: 92608485

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92608485001	DGWC-121	Water	06/06/22 11:59	06/08/22 10:35
92608485002	B-122D	Water	06/06/22 11:30	06/08/22 10:35
92608485003	DUP-1	Water	06/06/22 00:00	06/08/22 10:35
92608485004	FB-1	Water	06/07/22 16:35	06/08/22 10:35
92608485005	EB-1	Water	06/06/22 12:00	06/08/22 10:35
92608485006	B-123D	Water	06/09/22 17:18	06/10/22 13:12

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: MCDONOUGH BACKGROUND RAD  
 Pace Project No.: 92608485

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92608485001	DGWC-121	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92608485002	B-122D	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92608485003	DUP-1	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92608485004	FB-1	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92608485005	EB-1	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92608485006	B-123D	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH BACKGROUND RAD

Pace Project No.: 92608485

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	<b>0.000U ± 0.247 (0.554)</b> <b>C:NA T:90%</b>	pCi/L	07/15/22 16:17	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>1.23 ± 0.503 (0.775)</b> <b>C:65% T:90%</b>	pCi/L	07/08/22 13:01	15262-20-1	B0
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.23 ± 0.560 (0.775)</b>	pCi/L	07/19/22 12:31	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH BACKGROUND RAD

Pace Project No.: 92608485

**Sample: B-122D**      **Lab ID: 92608485002**      Collected: 06/06/22 11:30      Received: 06/08/22 10:35      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	<b>2.29 ± 0.827 (0.733)</b> <b>C:NA T:83%</b>	pCi/L	07/15/22 16:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>10.8 ± 2.22 (0.880)</b> <b>C:59% T:83%</b>	pCi/L	07/08/22 13:01	15262-20-1	B0
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>13.1 ± 2.37 (0.880)</b>	pCi/L	07/19/22 12:31	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH BACKGROUND RAD

Pace Project No.: 92608485

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: DUP-1</b> <b>Lab ID: 92608485003</b> Collected: 06/06/22 00:00      Received: 06/08/22 10:35      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	<b>0.298U ± 0.366 (0.597)</b> <b>C:NA T:91%</b>	pCi/L	07/15/22 16:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.809U ± 0.469 (0.854)</b> <b>C:60% T:91%</b>	pCi/L	07/08/22 13:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.11 ± 0.595 (0.854)</b>	pCi/L	07/19/22 12:31	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH BACKGROUND RAD

Pace Project No.: 92608485

**Sample: FB-1**      **Lab ID: 92608485004**      Collected: 06/07/22 16:35      Received: 06/08/22 10:35      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	<b>0.000U ± 0.264 (0.593)</b> <b>C:NA T:95%</b>	pCi/L	07/15/22 16:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>1.26 ± 0.579 (0.974)</b> <b>C:55% T:95%</b>	pCi/L	07/08/22 13:01	15262-20-1	B0
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.26 ± 0.636 (0.974)</b>	pCi/L	07/19/22 12:31	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH BACKGROUND RAD

Pace Project No.: 92608485

**Sample: EB-1**      **Lab ID: 92608485005**      Collected: 06/06/22 12:00      Received: 06/08/22 10:35      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	<b>0.143U ± 0.218 (0.351)</b> <b>C:NA T:93%</b>	pCi/L	07/15/22 16:27	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>1.14 ± 0.594 (1.04)</b> <b>C:53% T:93%</b>	pCi/L	07/08/22 13:01	15262-20-1	B0
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.28 ± 0.633 (1.04)</b>	pCi/L	07/19/22 12:31	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MCDONOUGH BACKGROUND RAD

Pace Project No.: 92608485

**Sample: B-123D**      **Lab ID: 92608485006**      Collected: 06/09/22 17:18      Received: 06/10/22 13:12      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 903.1	<b>0.112U ± 0.346 (0.671)</b> <b>C:NA T:90%</b>	pCi/L	07/15/22 16:17	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	<b>1.97 ± 0.695 (0.975)</b> <b>C:53% T:90%</b>	pCi/L	07/08/22 13:01	15262-20-1	B0
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>2.08 ± 0.776 (0.975)</b>	pCi/L	07/19/22 12:31	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: MCDONOUGH BACKGROUND RAD

Pace Project No.: 92608485

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QC Batch: 513178	Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0	Analysis Description: 904.0 Radium 228
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92608485001, 92608485002, 92608485003, 92608485004, 92608485005, 92608485006

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METHOD BLANK: 2487394 Matrix: Water

Associated Lab Samples: 92608485001, 92608485002, 92608485003, 92608485004, 92608485005, 92608485006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	1.66 ± 0.530 (0.650) C:65% T:91%	pCi/L	07/08/22 12:40	B0

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 BACKGROUND RAD

Pace Project No.: 92608485

QC Batch: 513176

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92608485001, 92608485002, 92608485003, 92608485004, 92608485005, 92608485006

METHOD BLANK: 2487389

Matrix: Water

Associated Lab Samples: 92608485001, 92608485002, 92608485003, 92608485004, 92608485005, 92608485006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0531 ± 0.242 (0.493) C:NA T:91%	pCi/L	07/15/22 16:17	

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

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## QUALIFIERS

Project: MCDONOUGH BACKGROUND RAD  
Pace Project No.: 92608485

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### 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.

### ANALYTE QUALIFIERS

B0 Analyte was detected in an associated blank at a concentration greater than the MDL.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCDONOUGH BACKGROUND RAD  
Pace Project No.: 92608485

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92608485001	DGWC-121	EPA 903.1	513176		
92608485002	B-122D	EPA 903.1	513176		
92608485003	DUP-1	EPA 903.1	513176		
92608485004	FB-1	EPA 903.1	513176		
92608485005	EB-1	EPA 903.1	513176		
92608485006	B-123D	EPA 903.1	513176		
92608485001	DGWC-121	EPA 904.0	513178		
92608485002	B-122D	EPA 904.0	513178		
92608485003	DUP-1	EPA 904.0	513178		
92608485004	FB-1	EPA 904.0	513178		
92608485005	EB-1	EPA 904.0	513178		
92608485006	B-123D	EPA 904.0	513178		
92608485001	DGWC-121	Total Radium Calculation	519695		
92608485002	B-122D	Total Radium Calculation	519695		
92608485003	DUP-1	Total Radium Calculation	519695		
92608485004	FB-1	Total Radium Calculation	519695		
92608485005	EB-1	Total Radium Calculation	519695		
92608485006	B-123D	Total Radium Calculation	519695		

### REPORT OF LABORATORY ANALYSIS

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DC# Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 09/12/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt:

Client Name: BA Lower

Project #: **W0# : 92608485**

Courier:  Commercial  Fed Ex  UPS  USPS  Other



Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initial Person Examining Container: 8/22

Packing Material:  Bubble Wrap  Bubble Bags  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  Sun ID: 083 Type of Ice:  Wet  Blue  None

Cooler Temp: 3.2 Correction Factor: Add/Subtract (°C) +0.2

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

Cooler Temp Corrected (°C): 3.4

USDA Regulated Soil?  N/A, water sample

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

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

				Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2.
Short Hold Time Analysis (CTI for JP)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Batch Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	6.
- Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	8.
Sample Labels Match CDC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	9.
- Includes Date/Time/ID/Analysis Matrix:	<u>W</u>			
Headspace in VOA Vials (xS-6mm)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCUB Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SBP Review: \_\_\_\_\_ Date: \_\_\_\_\_



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, TDC, Oil and Grease, GROVEDS (water) DOC, UTM

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Project #

**WO# : 92608485**

PR: NPG

Due Date: 06/29/22

CLIENT: GA-GA Power

Row	Sample	1	2	3	4	5	6	7	8	9	10	11	12
	BP10-125 ml, Plastic Unpreserved (N/A) (C-1)												
	BP10-250 ml, Plastic Unpreserved (N/A)	2	2	2	2	2							
	BP10-500 ml, Plastic Unpreserved (N/A)	1	1	1	1	1							
	BP10-1 liter Plastic Unpreserved (N/A)												
	BP10-125 ml, Plastic v2504 (pH x 2) (C-1)												
	BP10-250 ml, Plastic v2504 (pH x 2)												
	BP10-125 ml, Plastic 2N Acetic & NaOH (pH)												
	BP10-125 ml, Plastic NaOH (pH x 12) (C-1)												
	WSP14-1 liter Washed Glass, pH Unpreserved												
	AO100-1 liter Amber Unpreserved (N/A) (C-1)												
	AO100-1 liter Amber HD (pH x 2)												
	AO100-250 ml, Amber Unpreserved (N/A) (C-1)												
	AO100-1 liter Amber v2504 (pH x 2)												
	AO100-250 ml, Amber v2504 (pH x 2)												
	DO100-250 ml, Amber v2504 (N/A) (C-1)												
	DO100-40 ml, VOA HD (N/A)												
	VO100-40 ml, VOA v2504 (N/A)												
	VO100-40 ml, VOA Unpreserved (N/A)												
	DO100-40 ml, VOA v2504 (N/A)												
	DO100-40 ml, VOA v2504 (N/A)												
	V/VO1 (B vials per lot) v2504 (N/A)												
	BP10-125 ml, Density Plastic (N/A - 100)												
	BP10-250 ml, Density Plastic (N/A - 100)												
	BP10-125 ml, Plastic (pH-2504) (3-3-7)												
	AO100-100 ml, Amber Unpreserved (N/A) (C-1)												
	VO100-25 ml, Turbidity vials (N/A)												
	DO100-40 ml, Amber Unpreserved vials (N/A)												

BP 10  
 2 2 2 2 2  
 1 1 1 1 1

**pH Adjustment Log for Preserved Samples**

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DCR Certification Office (i.e. Out of State, incorrect preservative, out of temp, incorrect containers).



**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a LEADS, OCCUPANCY, AS REPORTS ONLY and/or completed accurately

Page: 1 of 1

<b>Section 1</b> Requester Contact Information	<b>Section 2</b> Requester Contact Information	<b>Section 3</b> Media Information
Requester Name: [Blank] Requester Title: [Blank] Requester Address: [Blank] Requester City: [Blank] Requester State: [Blank] Requester Zip: [Blank] Requester Phone: [Blank]	Requester Name: [Blank] Requester Title: [Blank] Requester Address: [Blank] Requester City: [Blank] Requester State: [Blank] Requester Zip: [Blank] Requester Phone: [Blank]	Media Information: [Blank] Media Type: [Blank] Media Title: [Blank] Media Description: [Blank] Media Location: [Blank]

ITEM #	DESCRIPTION	DATE	TIME	BY	INITIALS	SIGNATURE	REMARKS	ANALYSIS TESTS		REMARKS
								DATE	TIME	
1	Sample ID: [Blank] The Owner's name: [Blank] Date: [Blank]									
2	[Blank]									
3	[Blank]									
4	[Blank]									
5	[Blank]									
6	[Blank]									
7	[Blank]									
8	[Blank]									
9	[Blank]									
10	[Blank]									
11	[Blank]									
12	[Blank]									
13	[Blank]									
14	[Blank]									

Date: 6-8-22  
 Title: [Blank]





Document Name  
**Sample Condition Upon Receipt (SCUR)**  
 Document No.:  
**F-CAR-CS-088-Rev.08**

Document Revised: November 15, 2021  
 Page 1 of 3  
 Issuing Authority:  
 Pace Carolina Quality Office

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

GA River

Project #:

[Empty box for Project #]

Courier:

Commercial

Fed Ex  
 Pace

UPS

USPS

Other

Client

Custody Seal Present?

Yes

No

Seals Intact?

Yes

No

Date/Initials Person Examining Contents: 12/14/21

Packing Material:

Bubble Wrap

Bubble Bags

None

Other

Biological Tissue Present?

Yes

No

N/A

Thermometer:

at Site ID: 214

Type of Ice:

Dry

Blue

None

Cooler Temp: 1.1

Correction Factor:

Add/Subtract (°C)

+ .1

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.2

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
Includes Date/Time/ID/Analysis Matrix:	<u>WTI</u>		
Headspace in VOA Vials (<1-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Project Manager SCUR Review: \_\_\_\_\_

Date: \_\_\_\_\_

Project Manager SRP Review: \_\_\_\_\_

Date: \_\_\_\_\_



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.

Project #

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRD/9015 (water) DOC, Urag

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Sample ID	Container	Notes	1	2	3	4	5	6	7	8	9	10	11	12
BP40-125 ml, Plastic Unpreserved (N/A) (C-1)			/	/	/	/	/	/	/	/	/	/	/	/
BP20-250 ml, Plastic Unpreserved (N/A)			2	1	/	/	/	/	/	/	/	/	/	/
BP20-500 ml, Plastic Unpreserved (N/A)			/	/	/	/	/	/	/	/	/	/	/	/
BP100-1 liter Plastic Unpreserved (N/A)			/	/	/	/	/	/	/	/	/	/	/	/
BP40-125 ml, Plastic H2SO4 (pH < 2) (C-1)			/	/	/	/	/	/	/	/	/	/	/	/
BP20-250 ml, plastic HNO3 (pH < 2)			/	/	/	/	/	/	/	/	/	/	/	/
BP40-125 ml, Plastic 2N Acetate & NaOH (pH)			/	/	/	/	/	/	/	/	/	/	/	/
BP40-125 ml, Plastic NaOH (pH > 12) (C-1)			/	/	/	/	/	/	/	/	/	/	/	/
BP20-250 ml, 1 liter Amber Unpreserved (N/A) (C-1)			/	/	/	/	/	/	/	/	/	/	/	/
AG100-1 liter Amber HCl (pH < 2)			/	/	/	/	/	/	/	/	/	/	/	/
AG20-250 ml, Amber Unpreserved (N/A) (C-1)			/	/	/	/	/	/	/	/	/	/	/	/
AG10-1 liter Amber H2SO4 (pH < 2)			/	/	/	/	/	/	/	/	/	/	/	/
AG20-250 ml, Amber H2SO4 (pH < 2)			/	/	/	/	/	/	/	/	/	/	/	/
AG20-250 ml, Amber HNO3 (pH < 2)			/	/	/	/	/	/	/	/	/	/	/	/
DO20-250 ml, Amber MSAO (N/A) (C-1)			/	/	/	/	/	/	/	/	/	/	/	/
DO200-40 ml, VOA HCl (N/A)			/	/	/	/	/	/	/	/	/	/	/	/
VO20-40 ml, VOA Na2S2O3 (N/A)			/	/	/	/	/	/	/	/	/	/	/	/
VO200-40 ml, VOA Unpreserved (N/A)			/	/	/	/	/	/	/	/	/	/	/	/
DO20-40 ml, VOA HPO4 (N/A)			/	/	/	/	/	/	/	/	/	/	/	/
DO20-40 ml, VOA H2SO4 (pH)			/	/	/	/	/	/	/	/	/	/	/	/
V200 (8 vials per bag) (VFA) (N/A)			/	/	/	/	/	/	/	/	/	/	/	/
SP20-125 ml, Sterile Plastic (N/A - 0.01)			/	/	/	/	/	/	/	/	/	/	/	/
SP20-250 ml, Sterile Plastic (N/A - 0.01)			/	/	/	/	/	/	/	/	/	/	/	/
BP20-250 ml, Plastic (M0) (S04) (S 3-5.7)			/	/	/	/	/	/	/	/	/	/	/	/
AG200-100 ml, Amber Unpreserved (N/A) (C-1)			/	/	/	/	/	/	/	/	/	/	/	/
V200-20 ml, Scintillation vial (N/A)			/	/	/	/	/	/	/	/	/	/	/	/
DO20-40 ml, Amber Unpreserved vial (N/A)			/	/	/	/	/	/	/	/	/	/	/	/

BP IN 2

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina Office Certification Office i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

*Revised*

**CHAIN-OF-CUSTODY / Analytical Request Document**  
 This Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page 1 of 1

<b>Section 1</b> Requester Contact Information		<b>Section 2</b> Requester Subject Information		<b>Section 3</b> Sample Information	
Requester Name	Requester Title	Requester Name	Requester Title	Sample ID	Sample Description
Requester Phone	Requester Email	Requester Name	Requester Title	Sample Type	Sample Location
Requester Address	Requester City/State/Zip	Requester Name	Requester Title	Sample Date of Collection	Sample Time of Collection
Requester Agency	Requester Case #	Requester Name	Requester Title	Sample Quantity	Sample Container
Requester Agency	Requester Case #	Requester Name	Requester Title	Sample Storage Location	Sample Storage Conditions
Requester Agency	Requester Case #	Requester Name	Requester Title	Sample Storage Location	Sample Storage Conditions

ITEM #	SAMPLE ID	SAMPLE TYPE	DATE	TIME	SAMPLE TIME OF COLLECTION	ANALYSIS TESTS		ANALYST	LAB
						TEST #	TEST NAME		
1	8-1000	WATER SAMPLE	06/10/23	13:12	6/10/23	13:12	1	1	1
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

APPROVED FOR RELEASE: 6/10/23

DATE: 6/10/23

TIME: 13:12

LAB: 130

# Quality Control Sample Performance Assessment



Analyt. Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226  
Analyst: SLC  
Date: 6/30/2022  
Batch ID: 67363  
Matrix: DW

Method Blank Assessment	
MB Sample ID	2487389
MB Concentration:	-0.053
M/B Counting Uncertainty:	0.180
MB MDC:	0.493
MB Numerical Performance Indicator:	-0.58
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCSD67363	LCSD67363
Count Date:	7/15/2022	7/15/2022
Spike I.D.:	21-031	21-031
Spike Concentration (pCi/mL):	39.889	39.889
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.804
Target Conc. (pCi/L, g, F):	4.887	4.964
Uncertainty (Calculated):	0.230	0.233
Result (pCi/L, g, F):	4.003	4.724
LCSD/LCSD Counting Uncertainty (pCi/L, g, F):	0.827	0.960
Numerical Performance Indicator:	-2.02	-0.48
Percent Recovery:	81.91%	95.17%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	73%	73%

Duplicate Sample Assessment	
Sample I.D.:	LCSD67363
Duplicate Sample I.D.:	LCSD67363
Sample Result (pCi/L, g, F):	4.003
Sample Duplicate Result (pCi/L, g, F):	0.827
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	4.724
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.960
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-1.115
(Based on the LCSD/LCSD Percent Recoveries) Duplicate RPD:	14.98%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	32%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
<p>Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:</p> <p>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):</p> <p>Sample Result: Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Sample Matrix Spike Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate 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:</p>		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
<p>Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:</p>

# Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

*Amey*  
GPH  
7/15/22

# Quality Control Sample Performance Assessment

**Analyst Must Manually Enter All Fields Highlighted in Yellow.**



Test: Ra-228  
Analyst: VAL  
Date: 7/1/2022  
Worklist: 67364  
Matrix: WI

Method Blank Assessment	
MB Sample ID	2487394
MB concentration:	1.658
MB 2 Sigma CSU:	0.530
MB MDC:	0.650
MB Numerical Performance Indicator:	6.13
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Fail*

Laboratory Control Sample Assessment	LCS#67364		Y
	LCS#67364	LCS#67364	
Count Date:	7/8/2022	7/8/2022	
Spike I.D.:	22-016	22-016	
Decay Corrected Spike Concentration (pCi/mL):	35.112	35.112	
Volume Used (mL):	0.10	0.10	
Aliquot Volume (L, g, F):	0.804	0.804	
Target Conc. (pCi/L, g, F):	4.302	4.369	
Uncertainty (Calculated):	0.211	0.214	
Result (pCi/L, g, F):	4.491	4.857	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.981	1.069	
Numerical Performance Indicator:	104.40%	111.17%	
Percent Recovery:	N/A	N/A	
Status vs Numerical Indicator:	Pass	Pass	
Upper % Recovery Limits:	135%	135%	
Lower % Recovery Limits:	60%	60%	

Duplicate Sample Assessment	
Sample I.D.:	LCS#67364
Duplicate Sample I.D.:	LCS#67364
Sample Result (pCi/L, g, F):	4.491
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.981
Sample Duplicate Result (pCi/L, g, F):	4.857
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.069
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.495
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	6.29%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

# 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.

*7/7/15/ez*

*Client contacted*

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
<p>Sample Collection Date:</p> <p>Sample I.D.</p> <p>Sample MS I.D.</p> <p>Sample MSD I.D.</p> <p>Spike I.D.:</p> <p>MS/MSD Decay Corrected Spike Concentration (pCi/mL):</p> <p>Spike Volume Used in MS (mL):</p> <p>MS Aliquot (L, g, F):</p> <p>MS Target Conc. (pCi/L, g, F):</p> <p>MSD Aliquot (L, g, F):</p> <p>MSD Target Conc. (pCi/L, g, F):</p> <p>MS Spike Uncertainty (calculated):</p> <p>MSD Spike Uncertainty (calculated):</p> <p>Sample Result:</p> <p>Sample Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):</p> <p>MS Numerical Performance Indicator:</p> <p>MSD Numerical Performance Indicator:</p> <p>MS Percent Recovery:</p> <p>MSD Percent Recovery:</p> <p>MS Status vs Numerical Indicator:</p> <p>MSD Status vs Numerical Indicator:</p> <p>MS Status vs Recovery:</p> <p>MSD Status vs Recovery:</p> <p>MS/MSD Upper % Recovery Limits:</p> <p>MS/MSD Lower % Recovery Limits:</p>		
<p>Matrix Spike/Matrix Spike Duplicate Sample Assessment</p> <p>Sample I.D.</p> <p>Sample MS I.D.</p> <p>Sample MSD I.D.</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Duplicate Numerical Performance Indicator:</p> <p>(Based on the Percent Recoveries) MS/MSD Duplicate RPD:</p> <p>MS/MSD Duplicate Status vs Numerical Indicator:</p> <p>MS/MSD Duplicate Status vs RPD:</p> <p>% RPD Limit:</p>		

*Collin*

**APPENDIX B**

Data Validation Summary  
September 2021

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## Quality Control Review of Analytical Data- Ash Pond AP-2, 3/4 Submitted by Pace Analytical Services, LLC September 2021

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, 3/4 (Site) between September 8, 2021 and September 16, 2021. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1. In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D - Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detection monitoring constituents listed in 40 CFR, Part 257, Appendix III and assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. Test methods included Inductively Coupled Plasma- Mass Spectrometry (ICP-MS) (USEPA Method 6020B), Mercury in Liquid Wastes (USEPA Method 7470A), Inductively Coupled Plasma (ICP) (6010D), Determination of Inorganic Anions By Ion Chromatography (USEPA Method 300.0), Total Dissolved Solids (TDS) (Standard Methods 2540C), Radium-226 (USEPA Method 9315) and Radium-228 (USEPA Method 9320).

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

<b>Laboratory Precision:</b>	Laboratory goals for precision were met.
<b>Field Precision:</b>	Field goals for precision were met.
<b>Accuracy:</b>	Laboratory goals for accuracy were met with the exception of lithium, chloride, fluoride, and sulfate as described in the qualification sections below.
<b>Detection Limits:</b>	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.
<b>Completeness:</b>	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, with the exception of TDS, as described in the qualification section below.

## 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; however, the concentration reported is an estimated value.
- U** The analyte was not detected above the method detection limit.

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. Although these qualifications were applied to some data from samples collected at the site and reported in SDGs 92560136, 92560137, 92560138, 92560139, 92560765, 92560766, 92560768, 92560774, 92561190 and 92561195 qualifications may not have been required or applied to all samples collected. A summary of sample qualifications can be found in Table 2.

- The TDS result in sample B-56 from SDG 92560768 was qualified as estimated (J) as the sample had to be re-analyzed outside of holding time. The original TDS result was deemed un-reportable by the lab due to a suspected manufacturing error of laboratory materials.
- Certain chloride and fluoride results from SDGs 92560768 and 92560774 were qualified as estimated and biased high (J+) as the associated matrix spike/matrix spike duplicate (MS/MSD) recoveries were above the QC criteria.
- Certain lithium, chloride, fluoride, and sulfate results from SDGs 92560768 and 92560774 were qualified as estimated and biased low (J-) as the associated matrix spike/matrix spike duplicate (MS/MSD) recoveries were below the QC criteria.
- Certain radium-228, radium-226, and total radium results in SDGs 92560765 and 92560766 were qualified as non-detect (U) when either radium-226 or radium-228 was detected at a similar concentration in an associated blank sample. As shown in Table 2, the minimum detectable concentration (MDC) was raised to the sample result as part of the (U) qualification process.
- The total radium result in SDG 92560765 was qualified estimated biased high (J+) for associated blank contaminations.

Golder reviewed the data from samples collected at Plant McDonough CCR Ash Pond AP-2, 3/4 between September 8, 2021 and September 16, 2021 in accordance with the analytical methods, the laboratory specific QC criteria, and the guidelines. As described above, 100% of the results were acceptable for project use.



## 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.

USEPA, January 2017, National, Office of Superfund Remediation and Technology Innovation, *National Functional Guidelines for Inorganic Superfund Methods Data Review*, Revision 0.0.

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**

SDGs	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses							
						Field pH	Total Metals (SW 6020B)	Calcium (SW 6010D)	Anions (EPA 300.0)	Total Mercury (SW 7470A)	TDS (SM 2540C-2011)	Radium-226 (EPA 9315)	Radium-228 (EPA 9320)
92561195	B-100	9/13/2021	92561195001	GW	-	X	X	X	X	X	X	-	-
92561195	B-62	9/9/2021	92560768001	GW	-	X	X	X	X	X	X	-	-
92561190	B-100	9/13/2021	92561190001	GW	-	-	-	-	-	-	-	X	X
92561190	B-62	9/9/2021	92560765001	GW	-	-	-	-	-	-	-	X	X
92560138	DGWA-71	9/8/2021	92560138001	GW	-	X	X	X	X	X	X	-	-
92560138	DGWA-53	9/9/2021	92560138002	GW	-	X	X	X	X	X	X	-	-
92560138	DGWA-70A	9/9/2021	92560138003	GW	-	X	X	X	X	X	X	-	-
92560136	DGWA-71	9/8/2021	92560136001	GW	-	-	-	-	-	-	-	X	X
92560136	DGWA-53	9/9/2021	92560136002	GW	-	-	-	-	-	-	-	X	X
92560136	DGWA-70A	9/9/2021	92560136003	GW	-	-	-	-	-	-	-	X	X
92560139	B-117D	9/8/2021	92560139001	GW	-	X	X	X	X	X	X	-	-
92560139	B-118	9/8/2021	92560139002	GW	-	X	X	X	X	X	X	-	-
92560139	B-119D	9/8/2021	92560139003	GW	-	X	X	X	X	X	X	-	-
92560139	B-116D	9/9/2021	92560139004	GW	-	X	X	X	X	X	X	-	-
92560137	B-117D	9/8/2021	92560137001	GW	-	-	-	-	-	-	-	X	X
92560137	B-118	9/8/2021	92560137002	GW	-	-	-	-	-	-	-	X	X
92560137	B-119D	9/8/2021	92560137003	GW	-	-	-	-	-	-	-	X	X
92560137	B-116D	9/9/2021	92560137004	GW	-	-	-	-	-	-	-	X	X
92560768	B-102D	9/10/2021	92560768002	GW	-	X	X	X	X	X	X	-	-
92560768	B-109D	9/10/2021	92560768003	GW	-	X	X	X	X	X	X	-	-
92560768	EB-3	9/10/2021	92560768004	WQ	EB (B-109D)	X	X	X	X	X	X	-	-
92560768	B-56	9/13/2021	92560768005	GW	-	X	X	X	X	X	X	-	-
92560768	B-88	9/13/2021	92560768006	GW	-	X	X	X	X	X	X	-	-
92560768	B-101D	9/13/2021	92560768007	GW	-	X	X	X	X	X	X	-	-
92560768	B-106D	9/13/2021	92560768008	GW	-	X	X	X	X	X	X	-	-
92560768	B-107D	9/13/2021	92560768009	GW	-	X	X	X	X	X	X	-	-
92560768	FB-3	9/13/2021	92560768010	WQ	FB (B-101D)	X	X	X	X	X	X	-	-
92560768	DUP-3	9/13/2021	92560768011	GW	FD (B-106D)	X	X	X	X	X	X	-	-
92560768	B-63	9/14/2021	92560768012	GW	-	X	X	X	X	X	X	-	-
92560768	B-66	9/14/2021	92560768013	GW	-	X	X	X	X	X	X	-	-
92560768	B-77	9/14/2021	92560768014	GW	-	X	X	X	X	X	X	-	-
92560768	B-82	9/14/2021	92560768015	GW	-	X	X	X	X	X	X	-	-
92560768	B-104D	9/14/2021	92560768016	GW	-	X	X	X	X	X	X	-	-
92560768	B-108D	9/14/2021	92560768017	GW	-	X	X	X	X	X	X	-	-
92560768	B-111D	9/14/2021	92560768018	GW	-	X	X	X	X	X	X	-	-
92560768	B-115D	9/14/2021	92560768019	GW	-	X	X	X	X	X	X	-	-
92560768	B-120D	9/14/2021	92560768020	GW	-	X	X	X	X	X	X	-	-
92560768	DUP-4	9/14/2021	92560768021	GW	FD (B-66)	X	X	X	X	X	X	-	-
92560768	EB-4	9/14/2021	92560768022	WQ	EB (111D)	X	X	X	X	X	X	-	-
92560768	B-92	9/15/2021	92560768023	GW	-	X	X	X	X	X	X	-	-
92560768	B-93	9/15/2021	92560768024	GW	-	X	X	X	X	X	X	-	-
92560768	B-97	9/15/2021	92560768025	GW	-	X	X	X	X	X	X	-	-
92560768	B-98	9/15/2021	92560768026	GW	-	X	X	X	X	X	X	-	-
92560768	DUP-5	9/15/2021	92560768027	GW	FD (B-93)	X	X	X	X	X	X	-	-
92560768	FB-5	9/15/2021	92560768028	WQ	FB (B-97)	X	X	X	X	X	X	-	-
92560768	EB-5	9/15/2021	92560768029	WQ	EB (B-98)	X	X	X	X	X	X	-	-
92560768	B-83	9/16/2021	92560768030	GW	-	X	X	X	X	X	X	-	-
92560768	FB-6	9/16/2021	92560768031	WQ	FB (B-83)	X	X	X	X	X	X	-	-
92560765	B-102D	9/10/2021	92560765002	GW	-	-	-	-	-	-	-	X	X

TABLE 1

**Sample Summary Table  
SCS Plant McDonough**

SDGs	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses							
						Field pH	Total Metals (SW 6020B)	Calcium (SW 6010D)	Anions (EPA 300.0)	Total Mercury (SW 7470A)	TDS (SM 2540C-2011)	Radium-226 (EPA 9315)	Radium-228 (EPA 9320)
92560765	B-109D	9/10/2021	92560765003	GW	-	-	-	-	-	-	-	X	X
92560765	EB-3	9/10/2021	92560765004	WQ	EB (B-109D)	-	-	-	-	-	-	X	X
92560765	B-56	9/13/2021	92560765005	GW	-	-	-	-	-	-	-	X	X
92560765	B-88	9/13/2021	92560765006	GW	-	-	-	-	-	-	-	X	X
92560765	B-101D	9/13/2021	92560765007	GW	-	-	-	-	-	-	-	X	X
92560765	B-106D	9/13/2021	92560765008	GW	-	-	-	-	-	-	-	X	X
92560765	B-107D	9/13/2021	92560765009	GW	-	-	-	-	-	-	-	X	X
92560765	FB-3	9/13/2021	92560765010	WQ	FB (B-101D)	-	-	-	-	-	-	X	X
92560765	DUP-3	9/13/2021	92560765011	GW	FD (B-106D)	-	-	-	-	-	-	X	X
92560765	B-63	9/14/2021	92560765012	GW	-	-	-	-	-	-	-	X	X
92560765	B-66	9/14/2021	92560765013	GW	-	-	-	-	-	-	-	X	X
92560765	B-77	9/14/2021	92560765014	GW	-	-	-	-	-	-	-	X	X
92560765	B-82	9/14/2021	92560765015	GW	-	-	-	-	-	-	-	X	X
92560765	B-104D	9/14/2021	92560765016	GW	-	-	-	-	-	-	-	X	X
92560765	B-108D	9/14/2021	92560765017	GW	-	-	-	-	-	-	-	X	X
92560765	B-111D	9/14/2021	92560765018	GW	-	-	-	-	-	-	-	X	X
92560765	B-115D	9/14/2021	92560765019	GW	-	-	-	-	-	-	-	X	X
92560765	B-120D	9/14/2021	92560765020	GW	-	-	-	-	-	-	-	X	X
92560765	DUP-4	9/14/2021	92560765021	GW	FD (B-66)	-	-	-	-	-	-	X	X
92560765	EB-4	9/14/2021	92560765022	WQ	EB (B-111D)	-	-	-	-	-	-	X	X
92560765	B-92	9/15/2021	92560765023	GW	-	-	-	-	-	-	-	X	X
92560765	B-93	9/15/2021	92560765024	GW	-	-	-	-	-	-	-	X	X
92560765	B-97	9/15/2021	92560765025	GW	-	-	-	-	-	-	-	X	X
92560765	B-98	9/15/2021	92560765026	GW	-	-	-	-	-	-	-	X	X
92560765	DUP-5	9/15/2021	92560765027	GW	FD (B-93)	-	-	-	-	-	-	X	X
92560765	FB-5	9/15/2021	92560765028	WQ	FB (B-97)	-	-	-	-	-	-	X	X
92560765	EB-5	9/15/2021	92560765029	WQ	EB (B-98)	-	-	-	-	-	-	X	X
92560765	B-83	9/16/2021	92560765030	GW	-	-	-	-	-	-	-	X	X
92560765	FB-6	9/16/2021	92560765031	WQ	FB (B-83)	-	-	-	-	-	-	X	X
92560774	DGWC-2	9/9/2021	92560774001	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-11	9/9/2021	92560774002	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-12	9/9/2021	92560774003	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-13	9/9/2021	92560774004	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-14	9/9/2021	92560774005	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-15	9/9/2021	92560774006	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-19	9/9/2021	92560774007	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-21	9/9/2021	92560774008	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-23	9/9/2021	92560774009	GW	-	X	X	X	X	X	X	-	-
92560774	EB-1	9/9/2021	92560774010	WQ	EB (DGWC-14)	X	X	X	X	X	X	-	-
92560774	FB-1	9/9/2021	92560774011	WQ	FB (DGWC-15)	X	X	X	X	X	X	-	-
92560774	DGWC-4	9/10/2021	92560774012	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-5	9/10/2021	92560774013	GW	-	X	X	X	X	X	X	-	-
92560774	DUP-2	9/10/2021	92560774014	GW	FD (DGWC-4)	X	X	X	X	X	X	-	-
92560774	DGWC-9	9/10/2021	92560774015	GW	-	X	X	X	X	X	X	-	-
92560774	FB-2	9/10/2021	92560774016	GW	FB (DGWC-9)	X	X	X	X	X	X	-	-
92560774	DGWC-10	9/10/2021	92560774017	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-20	9/10/2021	92560774018	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-22	9/10/2021	92560774019	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-47	9/10/2021	92560774020	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-48	9/10/2021	92560774021	GW	-	X	X	X	X	X	X	-	-
92560774	DUP-1	9/10/2021	92560774022	GW	FD (DGWC-48)	X	X	X	X	X	X	-	-
92560774	EB-2	9/10/2021	92560774023	GW	EB (DGWC-47)	X	X	X	X	X	X	-	-
92560774	DGWC-8	9/13/2021	92560774024	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-17	9/13/2021	92560774025	GW	-	X	X	X	X	X	X	-	-
92560774	DGWC-42	9/13/2021	92560774026	GW	-	X	X	X	X	X	X	-	-
92560766	DGWC-2	9/9/2021	92560766001	GW	-	-	-	-	-	-	-	X	X

TABLE 1

**Sample Summary Table  
SCS Plant McDonough**

SDGs	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses							
						Field pH	Total Metals (SW 6020B)	Calcium (SW 6010D)	Anions (EPA 300.0)	Total Mercury (SW 7470A)	TDS (SM 2540C-2011)	Radium-226 (EPA 9315)	Radium-228 (EPA 9320)
92560766	DGWC-11	9/9/2021	92560766002	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-12	9/9/2021	92560766003	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-13	9/9/2021	92560766004	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-14	9/9/2021	92560766005	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-15	9/9/2021	92560766006	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-19	9/9/2021	92560766007	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-21	9/9/2021	92560766008	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-23	9/9/2021	92560766009	GW	-	-	-	-	-	-	-	X	X
92560766	EB-1	9/9/2021	92560766010	WQ	EB (DGWC-14)	-	-	-	-	-	-	X	X
92560766	FB-1	9/9/2021	92560766011	WQ	FB (DGWC-15)	-	-	-	-	-	-	X	X
92560766	DGWC-4	9/10/2021	92560766012	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-5	9/10/2021	92560766013	GW	-	-	-	-	-	-	-	X	X
92560766	DUP-2	9/10/2021	92560766014	GW	FD (DGWC-4)	-	-	-	-	-	-	X	X
92560766	DGWC-9	9/10/2021	92560766015	GW	-	-	-	-	-	-	-	X	X
92560766	FB-2	9/10/2021	92560766016	WQ	FB (DGWC-9)	-	-	-	-	-	-	X	X
92560766	DGWC-10	9/10/2021	92560766017	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-20	9/10/2021	92560766018	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-22	9/10/2021	92560766019	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-47	9/10/2021	92560766020	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-48	9/10/2021	92560766021	GW	-	-	-	-	-	-	-	X	X
92560766	DUP-1	9/10/2021	92560766022	GW	FD (DGWC-48)	-	-	-	-	-	-	X	X
92560766	EB-2	9/10/2021	92560766023	WQ	EB (DGWC-47)	-	-	-	-	-	-	X	X
92560766	DGWC-8	9/13/2021	92560766024	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-17	9/13/2021	92560766025	GW	-	-	-	-	-	-	-	X	X
92560766	DGWC-42	9/13/2021	92560766026	GW	-	-	-	-	-	-	-	X	X

**Abbreviations:**

SDG- Sample Delivery Group  
 QC - Quality Control  
 SM - Standard Method  
 SW - Solid Waste  
 GW - Groundwater  
 TDS - Total dissolved solids

**TABLE 2**  
**Qualifier Summary Table**  
**SCS Plant McDonough**

<i>SDG</i>	<i>Sample Name</i>	<i>Constituent</i>	<i>New Result</i>	<i>New RL or MDC</i>	<i>Qualifier</i>	<i>Reason</i>
92560768	B-56	TDS	-	-	J	Analysis run out of holding time
92560768	B-115D	Lithium	-	-	J-	MS/MSD outside acceptance criteria
92560768	B-109D	Chloride	-	-	J+	MS/MSD outside acceptance criteria
92560768	B-109D	Fluoride	-	-	J+	MS/MSD outside acceptance criteria
92560768	B-109D	Sulfate	-	-	J-	MS/MSD outside acceptance criteria
92560768	B-101D	Sulfate	-	-	J-	MS/MSD outside acceptance criteria
92560768	B-63	Chloride	-	-	J+	MS/MSD outside acceptance criteria
92560768	B-63	Fluoride	-	-	J+	MS/MSD outside acceptance criteria
92560768	B-63	Sulfate	-	-	J-	MS/MSD outside acceptance criteria
92560768	B-98	Chloride	-	-	J-	MS/MSD outside acceptance criteria
92560768	B-98	Sulfate	-	-	J-	MS/MSD outside acceptance criteria
92560765	B-120D	Radium-228	-	2.51	U	Method blank detection
92560765	B-120D	Total Radium	-	-	J+	Method blank detection
92560765	B-101D	Radium-228	-	1.47	U	Field blank detection
92560765	B-101D	Total Radium	-	1.8	U	Field blank detection
92560774	DGWC-23	Chloride	-	-	J+	MS/MSD outside acceptance criteria
92560774	DGWC-23	Fluoride	-	-	J+	MS/MSD outside acceptance criteria
92560774	DGWC-47	Fluoride	-	-	J-	MS/MSD outside acceptance criteria
92560774	DGWC-48	Fluoride	-	-	J+	MS/MSD outside acceptance criteria
92560766	DGWC-14	Radium-226	-	0.502	U	Equipment Blank detection

**Abbreviations:**

RL : Reporting limit

MDC : Minimum detectable concentration

SDG : Sample delivery group

**Qualifier**

U: Non-detect

J+: estimated, bias high

J-: estimated, bias low

**APPENDIX B**

**Data Validation Summary**  
**January 2022**

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**Quality Control Review of Analytical Data- Ash Pond AP-2 and 3/4  
Submitted by Pace Analytical Services, LLC  
January and June 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 January 18, 2022 and June 9, 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 USEPA Method 6020B, 6010D, 300.0, TDS, Standard Methods 4500-CO2 Carbon Dioxide (Bicarbonate Alkalinity) and Alkalinity by Titration through Standard Method 2320B (SM2320B).

Data were reviewed in accordance with the US EPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program (CLP) Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0), US EPA Region IV Data Validation Standard Operating Procedures for CLP Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2.0), the National Functional Guidelines for Inorganic Superfund Methods Data Review (November 2020), and US Department of Energy, Evaluation of Radiochemical Data Usability (April 1997). The review included an assessment of the results for completeness, precision (laboratory 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**

<b>Laboratory Precision:</b>	Laboratory goals for precision were met, with the exception of fluoride.
<b>Field Precision:</b>	Field goals for precision were met.
<b>Accuracy:</b>	Laboratory goals for accuracy were met with the exception of chloride, fluoride, sulfate, and alkalinity as described in the qualification sections below.
<b>Detection Limits:</b>	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; however, the concentration reported is an estimated value.
  
- U** The analyte was not detected above the method detection limit.

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. Although these qualifications were applied to some data from samples collected at the site and reported in SDGs 92583500, 92583576, 92583585, 92583603, 92583950, 92583951, 92583952, 92583953, 92583955, 92583957, 92584543, 92584718, and 92608499 qualifications may not have been required or applied to all samples collected. A summary of sample qualifications can be found in Table 2.

- Certain chloride, fluoride, and sulfate results from SDGs 92583603, 92583953, 92583585 and 92583957 were qualified as estimated and biased high (J+) as the associated matrix spike/matrix spike duplicate (MS/MSD) recoveries were above the QC criteria.
- Certain alkalinity and sulfate results from SDGs 92583955, 92583953 and 92583957 were qualified as estimated and biased low (J-) as the associated matrix spike/matrix spike duplicate (MS/MSD) recoveries were below the QC criteria.
- Certain antimony and arsenic results in SDG 92583955 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 below the reporting limit (RL), the results were qualified as non-detect (U) and the results were raised to the RL.
- Fluoride in sample DGWC-2, from SDGs 92583953, was qualified as estimated non-detect value (UJ) as the associated matrix spike recovered outside acceptance criteria and the RPD recovered above the QC criteria.

Golder reviewed the data from samples collected at Plant McDonough CCR Ash Pond AP-2 and 3/4 between January 18, 2022 and June 9, 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**

SDGs	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses									
						Field pH	Total Metals (SW 6020B)	Metals (SW 6010D)	Anions (EPA 300.0)	Total Mercury (SW 7470A)	TDS (SM 2540C-2011)	Alkalinity (SM 2320B)	Bicarbonate Alkalinity (SM4500-CO2-D)	Radium-226 (EPA 9315)	Radium-228 (EPA 9320)
92583603	DGWA-70A	1/18/2022	92583603001	WG	-	X	X	X	X	X	X	X	-	-	-
92583603	DGWA-71	1/18/2022	92583603002	WG	-	X	X	X	X	X	X	X	-	-	-
92583603	DGWA-53	1/28/2022	92583603003	WG	-	X	X	X	X	X	X	X	-	-	-
92583500	DGWA-70A	1/18/2022	92583500001	WG	-	-	-	-	-	-	-	-	-	X	X
92583500	DGWA-71	1/18/2022	92583500002	WG	-	-	-	-	-	-	-	-	-	X	X
92583500	DGWA-53	1/28/2022	92583500003	WG	-	-	-	-	-	-	-	-	-	X	X
92583953	DGWC-2	1/20/2022	92583953001	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-21	1/20/2022	92583953002	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-22	1/20/2022	92583953003	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-23	1/20/2022	92583953004	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-42	1/20/2022	92583953005	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	FB-1	1/20/2022	92583953006	WQ	FB (DGWC-22)	-	X	X	X	X	X	X	-	-	-
92583953	FB-2	1/20/2022	92583953007	WQ	FB (DGWC-42)	-	X	X	X	X	X	X	-	-	-
92583953	DGWC-20	1/21/2022	92583953008	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-47	1/21/2022	92583953009	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	FB-3	1/21/2022	92583953010	WQ	FB (DGWC-20)	-	X	X	X	X	X	X	-	-	-
92583953	DGWC-4	1/24/2022	92583953011	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-5	1/24/2022	92583953012	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-15	1/24/2022	92583953013	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-17	1/24/2022	92583953014	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-48	1/24/2022	92583953015	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	EB-4	1/24/2022	92583953016	WQ	EB (DGWC-4)	-	X	X	X	X	X	X	-	-	-
92583953	FB-4	1/24/2022	92583953017	WQ	FB (DGWC-17)	-	X	X	X	X	X	X	-	-	-
92583953	DUP-4	1/24/2022	92583953018	WG	FD (DGWC-5)	-	X	X	X	X	X	X	-	-	-
92583953	DGWC-8	1/25/2022	92583953019	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-11	1/25/2022	92583953020	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-12	1/25/2022	92583953021	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-13	1/25/2022	92583953022	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-14	1/25/2022	92583953023	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-19	1/25/2022	92583953024	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	FB-5	1/25/2022	92583953025	WQ	FB (DGWC-14)	-	X	X	X	X	X	X	-	-	-
92583953	DGWC-9	1/26/2022	92583953026	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	DGWC-10	1/26/2022	92583953027	WG	-	X	X	X	X	X	X	X	-	-	-
92583953	FB-6	1/26/2022	92583953028	WQ	FB (DGWC-9)	-	X	X	X	X	X	X	-	-	-
92583953	DUP-5	1/26/2022	92583953029	WG	FD (DGWC-10)	-	X	X	X	X	X	X	-	-	-
92583950	DGWC-2	1/20/2022	92583950001	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-21	1/20/2022	92583950002	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-22	1/20/2022	92583950003	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-23	1/20/2022	92583950004	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-42	1/20/2022	92583950005	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	FB-1	1/20/2022	92583950006	WQ	FB (DGWC-22)	-	-	-	-	-	-	-	-	X	X
92583950	FB-2	1/20/2022	92583950007	WQ	FB (DGWC-42)	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-20	1/21/2022	92583950008	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-47	1/21/2022	92583950009	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	FB-3	1/21/2022	92583950010	WQ	FB (DGWC-20)	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-4	1/24/2022	92583950011	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-5	1/24/2022	92583950012	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-15	1/24/2022	92583950013	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-17	1/24/2022	92583950014	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-48	1/24/2022	92583950015	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	EB-4	1/24/2022	92583950016	WQ	EB (DGWC-4)	-	-	-	-	-	-	-	-	X	X
92583950	FB-4	1/24/2022	92583950017	WQ	FB (DGWC-17)	-	-	-	-	-	-	-	-	X	X
92583950	DUP-4	1/24/2022	92583950018	WG	FD (DGWC-5)	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-8	1/25/2022	92583950019	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-11	1/25/2022	92583950020	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-12	1/25/2022	92583950021	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-13	1/25/2022	92583950022	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-14	1/25/2022	92583950023	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-19	1/25/2022	92583950024	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	FB-5	1/25/2022	92583950025	WQ	FB (DGWC-14)	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-9	1/26/2022	92583950026	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	DGWC-10	1/26/2022	92583950027	WG	-	-	-	-	-	-	-	-	-	X	X
92583950	FB-6	1/26/2022	92583950028	WQ	FB (DGWC-9)	-	-	-	-	-	-	-	-	X	X
92583950	DUP-5	1/26/2022	92583950029	WG	FD (DGWC-10)	-	-	-	-	-	-	-	-	X	X
92583955	B-63	1/20/2022	92583955001	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-77	1/20/2022	92583955002	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-109D	1/20/2022	92583955003	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-115D	1/20/2022	92583955004	WG	-	X	X	X	X	X	X	X	-	-	-

**TABLE 1**  
**Sample Summary Table**  
**SCS Plant McDonough Ash Pond 2 and 3/4**

SDGs	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses									
						Field pH	Total Metals (SW 6020B)	Metals (SW 6010D)	Anions (EPA 300.0)	Total Mercury (SW 7470A)	TDS (SM 2540C-2011)	Alkalinity (SM 2320B)	Bicarbonate Alkalinity (SM4500-CO2-D)	Radium-226 (EPA 9315)	Radium-228 (EPA 9320)
92583955	B-120D	1/20/2022	92583955005	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	EB-2	1/20/2022	92583955006	WG	EB (B-120D)	-	X	X	X	X	X	X	-	-	-
92583955	B-83	1/21/2022	92583955007	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	EB-3	1/21/2022	92583955008	WG	EB (B-83)	-	X	X	X	X	X	X	-	-	-
92583955	B-104D	1/24/2022	92583955009	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-107D	1/24/2022	92583955010	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-108D	1/24/2022	92583955011	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-111D	1/24/2022	92583955012	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-66	1/25/2022	92583955013	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-82	1/25/2022	92583955014	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-106D	1/25/2022	92583955015	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	EB-5	1/25/2022	92583955016	WG	EB (B-106D)	-	X	X	X	X	X	X	-	-	-
92583955	B-92	1/26/2022	92583955017	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-93	1/26/2022	92583955018	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-97	1/26/2022	92583955019	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-98	1/26/2022	92583955020	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-101D	1/26/2022	92583955021	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	EB-6	1/26/2022	92583955022	WG	EB (B-97)	-	X	X	X	X	X	X	-	-	-
92583955	B-56	1/27/2022	92583955023	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-88	1/27/2022	92583955024	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	B-102D	1/27/2022	92583955025	WG	-	X	X	X	X	X	X	X	-	-	-
92583955	FB-6	1/27/2022	92583955026	WG	FB (B-88)	-	X	X	X	X	X	X	-	-	-
92583955	DUP-6	1/27/2022	92583955027	WG	FD (B-56)	X	X	X	X	X	X	X	-	-	-
92583951	B-63	1/20/2022	92583951001	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-77	1/20/2022	92583951002	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-109D	1/20/2022	92583951003	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-115D	1/20/2022	92583951004	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-120D	1/20/2022	92583951005	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	EB-2	1/20/2022	92583951006	WG	EB (B-120D)	-	-	-	-	-	-	-	X	X	-
92583951	B-83	1/21/2022	92583951007	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	EB-3	1/21/2022	92583951008	WG	EB (B-83)	-	-	-	-	-	-	-	X	X	-
92583951	B-104D	1/24/2022	92583951009	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-107D	1/24/2022	92583951010	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-108D	1/24/2022	92583951011	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-111D	1/24/2022	92583951012	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-66	1/25/2022	92583951013	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-82	1/25/2022	92583951014	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-106D	1/25/2022	92583951015	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	EB-5	1/25/2022	92583951016	WG	EB (B-106D)	-	-	-	-	-	-	-	X	X	-
92583951	B-92	1/26/2022	92583951017	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-93	1/26/2022	92583951018	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-97	1/26/2022	92583951019	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-98	1/26/2022	92583951020	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-101D	1/26/2022	92583951021	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	EB-6	1/26/2022	92583951022	WG	EB (B-97)	-	-	-	-	-	-	-	X	X	-
92583951	B-56	1/27/2022	92583951023	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-88	1/27/2022	92583951024	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	B-102D	1/27/2022	92583951025	WG	-	-	-	-	-	-	-	-	X	X	-
92583951	FB-6	1/27/2022	92583951026	WG	FB (B-88)	-	-	-	-	-	-	-	X	X	-
92583951	DUP-6	1/27/2022	92583951027	WG	FD (B-56)	-	-	-	-	-	-	-	X	X	-
92583585	B-116D	1/19/2022	92583585001	WG	-	X	X	X	X	X	X	X	-	-	-
92583585	B-117D	1/19/2022	92583585002	WG	-	X	X	X	X	X	X	X	-	-	-
92583585	B-118	1/19/2022	92583585003	WG	-	X	X	X	X	X	X	X	-	-	-
92583585	B-119D	1/19/2022	92583585004	WG	-	X	X	X	X	X	X	X	-	-	-
92583585	EB-1	1/19/2022	92583585005	WG	EB (B-117D)	-	X	X	X	X	X	X	-	-	-
92583576	B-116D	1/19/2022	92583576001	WG	-	-	-	-	-	-	-	-	X	X	-
92583576	B-117D	1/19/2022	92583576002	WG	-	-	-	-	-	-	-	-	X	X	-
92583576	B-118	1/19/2022	92583576003	WG	-	-	-	-	-	-	-	-	X	X	-
92583576	B-119D	1/19/2022	92583576004	WG	-	-	-	-	-	-	-	-	X	X	-
92583576	EB-1	1/19/2022	92583576005	WG	EB (B-117D)	-	-	-	-	-	-	-	X	X	-
92583957	B-62	1/20/2022	92583957001	WG	-	X	X	X	X	X	X	X	-	-	-
92583957	DUP-2	1/20/2022	92583957002	WG	DUP (B-62)	X	X	X	X	X	X	X	-	-	-
92583957	B-100	1/21/2022	92583957003	WG	-	X	X	X	X	X	X	X	-	-	-
92608499	B-122D	6/6/2022	92608499002	WG	-	X	X	X	X	X	X	X	-	-	-
92608499	FB-1	6/7/2022	92608499004	WG	FB (B-123D)	-	X	X	X	X	X	X	-	-	-
92608499	EB-1	6/6/2022	92608499005	WG	EB (B-122D)	-	X	X	X	X	X	X	-	-	-
92608499	B-123D	6/9/2022	92608499006	WG	-	X	X	X	X	X	X	X	-	-	-
92583952	B-62	1/20/2022	92583952001	WG	-	-	-	-	-	-	-	-	X	X	-
92583952	DUP-2	1/20/2022	92583952002	WG	DUP (B-62)	-	-	-	-	-	-	-	X	X	-
92583952	B-100	1/21/2022	92583952003	WG	-	-	-	-	-	-	-	-	X	X	-
92584718	B-90	1/26/2022	92584718001	WG	-	X	X	-	-	-	-	-	-	-	-

**TABLE 1**  
**Sample Summary Table**  
**SCS Plant McDonough Ash Pond 2 and 3/4**

SDGs	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses									
						Field pH	Total Metals (SW 6020B)	Metals (SW 6010D)	Anions (EPA 300.0)	Total Mercury (SW 7470A)	TDS (SM 2540C-2011)	Alkalinity (SM 2320B)	Bicarbonate Alkalinity (SM4500-CO2-D)	Radium-226 (EPA 9315)	Radium-228 (EPA 9320)
92584718	B-91	1/26/2022	92584718002	WG	-	X	X	-	-	-	-	-	-	-	-
92584718	B-95	1/26/2022	92584718003	WG	-	X	X	-	-	-	-	-	-	-	-
92584718	B-96	1/26/2022	92584718004	WG	-	X	X	-	-	-	-	-	-	-	-
92584718	B-99	1/26/2022	92584718005	WG	-	X	X	-	-	-	-	-	-	-	-
92584543	CR+0.4 (Mid)	1/25/2022	92584543001	W	-	-	X	X	X	-	X	X	X	-	-
92584543	CR+0.2 (Mid)	1/25/2022	92584543002	W	-	-	X	X	X	-	X	X	X	-	-
92584543	CR-0.1 (Mid)	1/25/2022	92584543003	W	-	-	X	X	X	-	X	X	X	-	-
92584543	DW_DS (Mid)	1/25/2022	92584543004	W	-	-	X	X	X	-	X	X	X	-	-
92584543	DW_US (Mid)	1/25/2022	92584543005	W	-	-	X	X	X	-	X	X	X	-	-
92584543	CR-0.2 (Mid)	1/25/2022	92584543006	W	-	-	X	X	X	-	X	X	X	-	-
92584543	CR-0.5 (Mid)	1/25/2022	92584543007	W	-	-	X	X	X	-	X	X	X	-	-
92584543	CR-0.8 (Mid)	1/25/2022	92584543008	W	-	-	X	X	X	-	X	X	X	-	-

**Abbreviations:**

SDG - Sample Delivery Group  
 QC - Quality Control  
 SM - Standard Method  
 SW - Solid Waste  
 WG - Groundwater  
 WQ - Water Quality  
 W - Water

TDS - Total dissolved solids  
 FD - Field Duplicate

**TABLE 2**  
**Qualifier Summary Table**  
**SCS Plant McDonough Ash Pond 2 and 3/4**

<b>SDG</b>	<b>Sample Name</b>	<b>Constituent</b>	<b>New Result</b>	<b>New RL or MDC</b>	<b>Qualifier</b>	<b>Reason</b>
92583603	DGWA-70A	Chloride	-	-	J+	MS/MSD recovered outside acceptance criteria
92583953	DGWC-2	Sulfate	-	-	J-	MS/MSD recovered outside acceptance criteria
92583953	DGWC-2	Fluoride	-	-	UJ	MS recovered outside acceptance criteria; RPD recovered above QC limits.
92583953	DGWC-48	Fluoride	-	-	J+	MS/MSD recovered outside acceptance criteria
92583955	B-56	Antimony	0.003	-	U	Method blank contamination
92583955	DUP-6	Antimony	0.003	-	U	Method blank contamination
92583955	B-120D	Arsenic	0.005	-	U	Equipment blank contamination
92583955	B-83	Arsenic	0.005	-	U	Equipment blank contamination
92583955	B-115D	Alkalinity	-	-	J-	MSD recovered outside acceptance criteria
92583585	B-116D	Chloride	-	-	J+	MS/MSD recovered outside acceptance criteria
92583585	B-116D	Sulfate	-	-	J+	MS/MSD recovered outside acceptance criteria
92583957	B-100	Chloride	-	-	J+	MS/MSD recovered outside acceptance criteria
92583957	DUP-2	Sulfate	-	-	J-	MS/MSD recovered outside acceptance criteria
92583957	B-62	Sulfate	-	-	J-	MS/MSD recovered outside acceptance criteria

**Abbreviations:**

RL : Reporting limit

MDC : Minimum detectable concentration

SDG : Sample delivery group

**Qualifier**

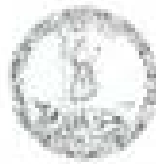
UJ: Non-detect estimated value

J+: estimated, bias high

J-: estimated, bias low

**APPENDIX B**

Laboratory  
Accreditation



COMMONWEALTH of VIRGINIA  
*Department of General Services*

*Division of Consolidated Laboratory Services*

600 North 5th Street  
Richmond, Virginia 23219-3691  
(804) 648-4480  
FAX (804) 692-6116

06/11/2021

Craig Tronzo  
Pace Analytical Services, LLC - Asheville NC  
2225 Riverside Drive  
Asheville NC 28804

VELAP ID: 460222

Dear Craig Tronzo:

The Division of Consolidated Laboratory Services (DCLS) has accredited Pace Analytical Services, LLC - Asheville NC pursuant to the provisions of IVAC30-46 and The NELAC Institute (TNI) 2009 Standard. Certificate number 11380 and the corresponding Scope of Accreditation are enclosed. This certificate expires 06/14/2022. The certificate must be conspicuously displayed in the laboratory along with the associated Scope of Accreditation.

Please note that your laboratory is required to notify the Virginia Environmental Laboratory Accreditation Program (VELAP) in writing of any changes in key accreditation criteria within 30 calendar days of the change per IVAC30-46-90 A. This requirement includes changes in ownership, location, key personnel, and major instrumentation.

To maintain accreditation, the laboratory must continue to comply with IVAC30-46. This includes ongoing satisfactory proficiency testing. The method checklists used by VELAP in the on-site assessment process are available upon request as a supplement to internal audits.

Please direct all correspondences and questions regarding accreditation to your laboratory's lead assessor, Ila Meyer-Fritzsche, at [ila.meyer-fritzsche@dgs.virginia.gov](mailto:ila.meyer-fritzsche@dgs.virginia.gov) or (804) 648-4480 x306.

Sincerely yours,

Cathy Westerman  
Manager, Laboratory Certification Program

Enclosures  
cc: Felicia Grogan



COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF GENERAL SERVICES  
DIVISION OF CONSOLIDATED LABORATORY SERVICES



Certifies that

**VA Laboratory ID#: 460222**  
**Pace Analytical Services, LLC - Asheville NC**  
2225 Riverside Drive  
Asheville, NC 28804

Owner: PAS PARENT, LLC  
Operator: PACE ANALYTICAL SERVICES, LLC  
Responsible Official: FELICIA GROGAN

Having met the requirements of 1 VAC 30-46 and  
having been found compliant with the 2009 TNI Standard approved by The NELAC Institute  
is hereby approved as an  
**Accredited Environmental Laboratory**

*As more fully described in the attached Scope of Accreditation*

Effective Date: June 15, 2021

Expiration Date: June 14, 2022

Certificate # 11380

A handwritten signature in black ink that reads "Denise M. Toney".

Denise M. Toney, Ph.D., HCLD  
DGS Deputy Director for Laboratories

Continued accreditation status depends on successful ongoing participation in the program.  
Certificate to be conspicuously displayed at the laboratory.  
Not valid unless accompanied by a valid Virginia Environmental Laboratory Accreditation Program (VELAP)  
Scope of Accreditation.  
Customers are urged to verify the laboratory's current accreditation status.

Certificate Not Transferable

Surrender Upon Revocation





**Commonwealth of Virginia**  
 Department of General Services  
 Division of Consolidated Laboratory Services



**Scope of Accreditation**

VELAP Certificate No.: 11380

**Pace Analytical Services, LLC - Asheville NC**  
 2225 Riverside Drive  
 Asheville, NC 28804

**Virginia Laboratory ID: 460222**  
 Effective Date: June 15, 2021  
 Expiration Date: June 14, 2022

**DRINKING WATER**

METHOD	ANALYTE	PRIMARY
EPA 200.8 REV 5.4	COPPER	VA
EPA 353.2 REV 2 (AS LACHAT 10-107-04-1 A + C)	NITRATE AS N	VA
SM 2320 B-2011	ALKALINITY AS CaCO3	VA
SM 9223 COLISURE®	TOTAL COLIFORMS	VA

METHOD	ANALYTE	PRIMARY
EPA 200.8 REV 5.4	LEAD	VA
EPA 353.2 REV 2 (AS LACHAT 10-107-04-1-A)	NITRITE AS N	VA
SM 9223 COLISURE®	ESCHERICHIA COLI	VA

**NON-POTABLE WATER**

METHOD	ANALYTE	PRIMARY
EPA 1010 B	FLASHPOINT	VA
EPA 160.4	RESIDUE-VOLATILE	VA
EPA 180.1 REV 2	TURBIDITY	VA
EPA 200.7 REV 4.4	ANTIMONY	VA
EPA 200.7 REV 4.4	BARIUM	VA
EPA 200.7 REV 4.4	BORON	VA
EPA 200.7 REV 4.4	CALCIUM	VA
EPA 200.7 REV 4.4	COBALT	VA
EPA 200.7 REV 4.4	IRON	VA
EPA 200.7 REV 4.4	MAGNESIUM	VA
EPA 200.7 REV 4.4	MOLYBDENUM	VA
EPA 200.7 REV 4.4	POTASSIUM	VA
EPA 200.7 REV 4.4	SILICA AS SiO2	VA
EPA 200.7 REV 4.4	SODIUM	VA
EPA 200.7 REV 4.4	TIN	VA
EPA 200.7 REV 4.4	VANADIUM	VA
EPA 200.8 REV 5.4	ALUMINUM	VA
EPA 200.8 REV 5.4	ARSENIC	VA
EPA 200.8 REV 5.4	BERYLLIUM	VA
EPA 200.8 REV 5.4	CHROMIUM	VA
EPA 200.8 REV 5.4	COPPER	VA
EPA 200.8 REV 5.4	MANGANESE	VA
EPA 200.8 REV 5.4	NICKEL	VA
EPA 200.8 REV 5.4	SILVER	VA
EPA 200.8 REV 5.4	VANADIUM	VA
EPA 200.8 REV 5.4 - EXTENDED	BORON	VA
EPA 200.8 REV 5.4 - EXTENDED	IRON	VA
EPA 200.8 REV 5.4 - EXTENDED	POTASSIUM	VA

METHOD	ANALYTE	PRIMARY
EPA 120.1	CONDUCTIVITY	VA
EPA 1631 E	MERCURY	VA
EPA 200.7 REV 4.4	ALUMINUM	VA
EPA 200.7 REV 4.4	ARSENIC	VA
EPA 200.7 REV 4.4	BERYLLIUM	VA
EPA 200.7 REV 4.4	CADMIUM	VA
EPA 200.7 REV 4.4	CHROMIUM	VA
EPA 200.7 REV 4.4	COPPER	VA
EPA 200.7 REV 4.4	LEAD	VA
EPA 200.7 REV 4.4	MANGANESE	VA
EPA 200.7 REV 4.4	NICKEL	VA
EPA 200.7 REV 4.4	SELENIUM	VA
EPA 200.7 REV 4.4	SILVER	VA
EPA 200.7 REV 4.4	THALLIUM	VA
EPA 200.7 REV 4.4	TITANIUM	VA
EPA 200.7 REV 4.4	ZINC	VA
EPA 200.8 REV 5.4	ANTIMONY	VA
EPA 200.8 REV 5.4	BARIUM	VA
EPA 200.8 REV 5.4	CADMIUM	VA
EPA 200.8 REV 5.4	COBALT	VA
EPA 200.8 REV 5.4	LEAD	VA
EPA 200.8 REV 5.4	MOLYBDENUM	VA
EPA 200.8 REV 5.4	SELENIUM	VA
EPA 200.8 REV 5.4	THALLIUM	VA
EPA 200.8 REV 5.4	ZINC	VA
EPA 200.8 REV 5.4 - EXTENDED	CALCIUM	VA
EPA 200.8 REV 5.4 - EXTENDED	MAGNESIUM	VA
EPA 200.8 REV 5.4 - EXTENDED	SODIUM	VA

This Scope of Accreditation must accompany the Certificate issued by Virginia DCLS with the same Certificate Number indicated above.



**Commonwealth of Virginia**  
 Department of General Services  
 Division of Consolidated Laboratory Services



**Scope of Accreditation**

VELAP Certificate No: 11380

**Pace Analytical Services, LLC - Asheville NC**  
 2225 Riverside Drive  
 Asheville, NC 28804

**Virginia Laboratory ID: 460222**  
 Effective Date: June 15, 2021  
 Expiration Date: June 14, 2022

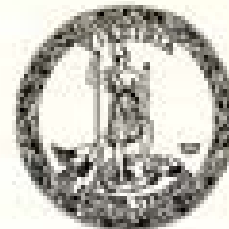
**NON-POTABLE WATER**

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 200.8 REV 5.4 - EXTENDED	TIN	VA	EPA 200.8 REV 5.4 - EXTENDED	TITANIUM	VA
EPA 218.6 REV 3.3	CHROMIUM VI	VA	EPA 245.1 REV 3	MERCURY	VA
EPA 300.0 REV 2.1	BROMIDE	VA	EPA 300.0 REV 2.1	CHLORIDE	VA
EPA 300.0 REV 2.1	FLUORIDE	VA	EPA 300.0 REV 2.1	NITRATE AS N	VA
EPA 300.0 REV 2.1	NITRATE/NITRITE	VA	EPA 300.0 REV 2.1	NITRITE AS N	VA
EPA 300.0 REV 2.1	SULFATE	VA	EPA 3008-A	PREP: ACID DIGESTION OF WATERS FOR TOTAL RECOVERABLE OR DISSOLVED METALS	VA
EPA 3010 A	PREP: ACID DIGESTION OF AQUEOUS SAMPLES AND EXTRACTS FOR TOTAL METALS	VA	EPA 350.1 REV 2	AMMONIA AS N	VA
EPA 351.2 MINUS EPA 350-1	ORGANIC NITROGEN	VA	EPA 351.2 REV 2 (AS LACHAT 10-107-06-3-D)	KJELDAHL NITROGEN - TOTAL (TKN)	VA
EPA 353.2 REV 2 (AS LACHAT 10-107-04-1 A + C)	NITRATE AS N	VA	EPA 353.2 REV 2 (AS LACHAT 10-107-04-1-A)	NITRATE/NITRITE	VA
EPA 353.2 REV 2 (AS LACHAT 10-107-04-1-A)	NITRITE AS N	VA	EPA 365.1 REV 2 (AS LACHAT 10-115-01-1-E)	PHOSPHORUS, TOTAL	VA
EPA 420.4 REV 1 (AS LACHAT 10-210-00-1-X)	TOTAL PHENOLICS	VA	EPA 6010 D	ALUMINUM	VA
EPA 6010 D	ANTIMONY	VA	EPA 6010 D	ARSENIC	VA
EPA 6010 D	BARIUM	VA	EPA 6010 D	BERYLLIUM	VA
EPA 6010 D	BORON	VA	EPA 6010 D	CADMIUM	VA
EPA 6010 D	CALCIUM	VA	EPA 6010 D	CHROMIUM	VA
EPA 6010 D	COBALT	VA	EPA 6010 D	COPPER	VA
EPA 6010 D	IRON	VA	EPA 6010 D	LEAD	VA
EPA 6010 D	LITHIUM	VA	EPA 6010 D	MAGNESIUM	VA
EPA 6010 D	MANGANESE	VA	EPA 6010 D	MOLYBDENUM	VA
EPA 6010 D	NICKEL	VA	EPA 6010 D	POTASSIUM	VA
EPA 6010 D	SELENIUM	VA	EPA 6010 D	SILICA AS SiO2	VA
EPA 6010 D	SILVER	VA	EPA 6010 D	SODIUM	VA
EPA 6010 D	STRONTIUM	VA	EPA 6010 D	THALLIUM	VA
EPA 6010 D	TIN	VA	EPA 6010 D	TITANIUM	VA
EPA 6010 D	VANADIUM	VA	EPA 6010 D	ZINC	VA
EPA 6010 D - EXTENDED	SILICON	VA	EPA 6020 B	ALUMINUM	VA
EPA 6020 B	ANTIMONY	VA	EPA 6020 B	ARSENIC	VA
EPA 6020 B	BARIUM	VA	EPA 6020 B	BERYLLIUM	VA
EPA 6020 B	CADMIUM	VA	EPA 6020 B	CALCIUM	VA
EPA 6020 B	CHROMIUM	VA	EPA 6020 B	COBALT	VA
EPA 6020 B	COPPER	VA	EPA 6020 B	IRON	VA
EPA 6020 B	LEAD	VA	EPA 6020 B	MAGNESIUM	VA

This Scope of Accreditation must accompany the Certificate issued by Virginia DCLS with the same Certificate Number indicated above.



**Commonwealth of Virginia**  
 Department of General Services  
 Division of Consolidated Laboratory Services



**Scope of Accreditation**

VELAP Certificate No.: 11380

**Pace Analytical Services, LLC - Asheville NC**  
 2225 Riverside Drive  
 Asheville, NC 28804

**Virginia Laboratory ID: 460222**  
 Effective Date: June 15, 2021  
 Expiration Date: June 14, 2022

**NON-POTABLE WATER**

METHOD	ANALYTE	PRIMARY
EPA 6020 B	MANGANESE	VA
EPA 6020 B	NICKEL	VA
EPA 6020 B	SELENIUM	VA
EPA 6020 B	SODIUM	VA
EPA 6020 B	TIN	VA
EPA 6020 B	ZINC	VA
EPA 6020 B - EXTENDED	BORON	VA
EPA 6020 B - EXTENDED	STRONTIUM	VA
EPA 6020 B - EXTENDED	URANIUM	VA
EPA 7470 A	MERCURY	VA
EPA 9012 B	AMENABLE CYANIDE	VA
EPA 9040 C	PH	VA
EPA 9056 A	CHLORIDE	VA
EPA 9056 A	NITRATE AS N	VA
EPA 9056 A	SULFATE	VA
EPA 9056 A	TOTAL ORGANIC CARBON (TOC)	VA
LACHAT QUIRCHEM 10-354-00-1-X	CYANIDE	VA
SM 2320 B-2011	ALKALINITY AS CaCO3	VA
SM 2540 B-2011	RESIDUE-TOTAL (TS)	VA
SM 2540 D-2011	RESIDUE-NONFILTERABLE (TSS)	VA
SM 3500-CR B-2011	CHROMIUM VI	VA
SM 4500-CN <sup>-</sup> B-2011	CYANIDE	VA
SM 4500-P-E-2011	ORTHOPHOSPHATE AS P	VA
SM 5210 B-2011	BIOCHEMICAL OXYGEN DEMAND (BOD)	VA
SM 5220 D-2011	CHEMICAL OXYGEN DEMAND (COD)	VA

METHOD	ANALYTE	PRIMARY
EPA 6020 B	MOLYBDENUM	VA
EPA 6020 B	POTASSIUM	VA
EPA 6020 B	SILVER	VA
EPA 6020 B	THALLIUM	VA
EPA 6020 B	VANADIUM	VA
EPA 6020 B - EXTENDED	BISMUTH	VA
EPA 6020 B - EXTENDED	LITHIUM	VA
EPA 6020 B - EXTENDED	TITANIUM	VA
EPA 7195 A	CHROMIUM VI	VA
EPA 9010 C	PREP. CYANIDE DISTILLATION	VA
EPA 9012 B	TOTAL CYANIDE	VA
EPA 9056 A	BROMIDE	VA
EPA 9056 A	FLUORIDE	VA
EPA 9056 A	NITRITE AS N	VA
EPA 9056 A - EXTENDED	NITRATE/NITRITE	VA
EPA 9056 B	FREE LIQUID	VA
SM 2130 B-2011	TURBIDITY	VA
SM 2040 B-2011	TOTAL HARDNESS AS CaCO3	VA
SM 2540 C-2011	RESIDUE-FILTERABLE (TDS)	VA
SM 2540 F-2011	RESIDUE-SETTLABLE	VA
SM 4500-CL <sup>-</sup> E-2011	CHLORIDE	VA
SM 4500-CN <sup>-</sup> G-2011	AMENABLE CYANIDE	VA
SM 4500-S2 <sup>-</sup> D-2011	SULFIDE	VA
SM 5210 B-2011	CARBONACEOUS BOD (CBOD)	VA
SM 5310 B-2011	TOTAL ORGANIC CARBON (TOC)	VA

**SOLID AND CHEMICAL MATERIALS**

METHOD	ANALYTE	PRIMARY
EPA 1010 B	FLASHPOINT	VA
EPA 1312	PREP. SYNTHETIC PRECIPITATION LEACHING PROCEDURE	VA
EPA 3050 B	PREP. ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS	VA
EPA 6010 D	ANTIMONY	VA
EPA 6010 D	BARIUM	VA
EPA 6010 D	BORON	VA
EPA 6010 D	CALCIUM	VA

METHOD	ANALYTE	PRIMARY
EPA 1311	PREP. TOXICITY CHARACTERISTIC LEACHING PROCEDURE	VA
EPA 3010 A	PREP. ACID DIGESTION OF AQUEOUS SAMPLES AND EXTRACTS FOR TOTAL METALS	VA
EPA 6010 D	ALUMINUM	VA
EPA 6010 D	ARSENIC	VA
EPA 6010 D	BERYLLIUM	VA
EPA 6010 D	CADMIUM	VA
EPA 6010 D	CHROMIUM	VA



**Commonwealth of Virginia**  
 Department of General Services  
 Division of Consolidated Laboratory Services



**Scope of Accreditation**

VELAP Certificate No. 11380

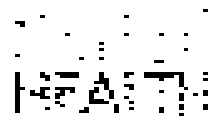
**Pace Analytical Services, LLC - Asheville NC**  
 2225 Riverside Drive  
 Asheville, NC 28804

**Virginia Laboratory ID: 460222**  
 Effective Date: June 15, 2021  
 Expiration Date: June 14, 2022

**SOLID AND CHEMICAL MATERIALS**

METHOD	ANALYTE	PRIMARY
EPA 6010 D	COBALT	VA
EPA 6010 D	IRON	VA
EPA 6010 D	MAGNESIUM	VA
EPA 6010 D	MOLYBDENUM	VA
EPA 6010 D	POTASSIUM	VA
EPA 6010 D	SILVER	VA
EPA 6010 D	STRONTIUM	VA
EPA 6010 D	TITANIUM	VA
EPA 6010 D	ZINC	VA
EPA 7471 B	MERCURY	VA
EPA 9060	TOTAL ORGANIC CARBON (TOC)	VA
EPA 9095 B	FREE LIQUID	VA

METHOD	ANALYTE	PRIMARY
EPA 6010 D	COPPER	VA
EPA 6010 D	LEAD	VA
EPA 6010 D	MANGANESE	VA
EPA 6010 D	NICKEL	VA
EPA 6010 D	SELENIUM	VA
EPA 6010 D	SODIUM	VA
EPA 6010 D	THALLIUM	VA
EPA 6010 D	VANADIUM	VA
EPA 6010 D - EXTENDED	SILICON	VA
EPA 9045 D	PH	VA
EPA 9060 A	TOTAL ORGANIC CARBON (TOC)	VA



State of Florida  
 Department of Health - Bureau of Public Health Laboratories  
 1115 Gandy Blvd  
 Tallahassee, Florida 32304



187319

FACE ANALYTICAL SERVICES, LLC-ATLANTA, GA  
 112 TECHNOLOGY PARKWAY  
 PLACEMORE CORNERS, GA 30092


has completed with Florida Administrative Code 64E-1  
 for the certification of environmental samples in the following categories:

DRINKING WATER - MICROBIOLOGY, DRINKING WATER - PRIMARY INORGANIC CONSTITUENTS, DRINKING WATER - SECONDARY INORGANIC  
 CONTAMINANTS, NONPOTABLE WATER - GENERAL CHEMISTRY, NONPOTABLE WATER - METALS, NONPOTABLE WATER - MICROBIOLOGY,  
 SOIL AND CHEMICAL MATERIALS - GENERAL CHEMISTRY, SOIL AND CHEMICAL MATERIALS - METALS, SOIL AND CHEMICAL MATERIALS -  
 MICROBIOLOGY

Continued certification is contingent upon successful ongoing compliance with the NELAP Standards and FAC Rule 64E-1  
 regulations. Specific methods and analytes certified are listed on the Laboratory Scope of Accreditation for this laboratory and  
 are online at the Bureau of Public Health Laboratories, P. O. Box 212, Tallahassee, Florida 32304. Clients and customers are  
 urged to verify with this agency the laboratory's certification status in Florida for particular methods and analytes.

Date Issued: July 01, 2021      Expiration Date: June 30, 2022



  
 Tracy A. Williams, MEd, MEd, JSCP,  
 Chief, Bureau of Public Health Laboratories  
 D-Per-1941, 104  
 NON-TRANSFERABLE PER 64E-1.01(1)(2)(i)  
 Supersedes all previously issued certificates



*Laboratory Scope of Accreditation*

Attached to the Certificate is: 805.316-32, expiration date June 30, 2023. This listing of accredited analytes should be used only when accepted with a valid certificate.

State Laboratory ID: **887315**      EPA Lab Code: **GA09011**      (774) 734-4300

**887315**  
Pete Analytical Services, LLC - Atlanta GA  
131 Technology Parkway  
Perimeter Center, GA 30092

**Matrix: Drinking Water**

Analyte	Method Code	Category	Certification Type	Effective Date
Lead	MS11271-H	Secondary Inorganic Contaminant	SLI-LAP	8/2/2000
Lead (Total)	MS10224-B	Microbiology	SLI-LAP	8/2/2000
Lead (Total)	MS10224-B MS10224-B MS10224-B	Microbiology	SLI-LAP	11/4/2015
Free Chlorine (Total)	MS10164-B	Microbiology	SLI-LAP	5/29/2012
Strep	TPA 5112	Primary Inorganic Contaminant	SLI-LAP	4/17/2001
Strep	TPA 5112	Primary Inorganic Contaminant	SLI-LAP	4/17/2001
Cyanide (Total)	MS14904-F	Primary Inorganic Contaminant	SLI-LAP	4/10/2000
PH	MS14704-HA	Primary Inorganic Contaminant Contaminant Secondary Inorganic Contaminant	SLI-LAP	4/10/2000
Residual Free Chlorine	MS14204-10	Primary Inorganic Contaminant	SLI-LAP	11/4/2015
Total Coliform	MS10224-B	Microbiology	SLI-LAP	4/17/2001
Total Coliform	MS10224-B MS10224-B MS10224-B	Microbiology	SLI-LAP	11/4/2015
Total Suspended Solids	TPA 5112	Primary Inorganic Contaminant	SLI-LAP	4/17/2001
Total Total Solids (Total)	MS14904-10	Primary Inorganic Contaminant	SLI-LAP	11/4/2015
Turbidity	TPA 1811	Secondary Inorganic Contaminant	SLI-LAP	4/10/2000



Laboratory Scope of Accreditation

Attachment to Certificate #: EB1315-22, expiration date June 30, 2023. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: EB1315 EPA Lab Code: GA04051 (760) 934-4200

EB1315  
Price Analytical Services, LLC - Atlanta GA  
110 Technology Parkway  
Perchtree Corners, GA 30091

Matrix	Non-Notable Water			Class/Control Type	Effective Date
Analyte	Method/Std	Category			
Aluminum	EPA 2001	Metals		SC LAP	4/10/2012
Aluminum	EPA 2001	Metals		SC LAP	1/10/2014
Aluminum	EPA 2001	Metals		SC LAP	7/1/2015
Aluminum	EPA 2001	Metals		SC LAP	4/10/2018
Antimony	EPA 2001	Metals		SC LAP	4/10/2012
Antimony	EPA 2001	Metals		SC LAP	1/10/2014
Antimony	EPA 2001	Metals		SC LAP	7/1/2015
Antimony	EPA 2001	Metals		SC LAP	4/10/2018
Arsenic	EPA 2001	Metals		SC LAP	4/10/2012
Arsenic	EPA 2001	Metals		SC LAP	1/10/2014
Arsenic	EPA 2001	Metals		SC LAP	4/10/2018
Barium	EPA 2001	Metals		SC LAP	4/10/2012
Barium	EPA 2001	Metals		SC LAP	1/10/2014
Barium	EPA 2001	Metals		SC LAP	4/10/2018
Bismuth	EPA 2001	Metals		SC LAP	4/10/2012
Bismuth	EPA 2001	Metals		SC LAP	1/10/2014
Bismuth	EPA 2001	Metals		SC LAP	4/10/2018
Boron	EPA 2001	Metals		SC LAP	4/10/2012
Boron	EPA 2001	Metals		SC LAP	1/10/2014
Boron	EPA 2001	Metals		SC LAP	4/10/2018
Bromine	EPA 2001	Metals		SC LAP	4/10/2012
Bromine	EPA 2001	Metals		SC LAP	1/10/2014
Bromine	EPA 2001	Metals		SC LAP	4/10/2018
Calcium	EPA 2001	Metals		SC LAP	4/10/2012
Calcium	EPA 2001	Metals		SC LAP	1/10/2014
Calcium	EPA 2001	Metals		SC LAP	4/10/2018
Calcium	EPA 2001	Metals		SC LAP	4/10/2018
Cadmium	EPA 2001	Metals		SC LAP	4/10/2012
Cadmium	EPA 2001	Metals		SC LAP	1/10/2014
Cadmium	EPA 2001	Metals		SC LAP	4/10/2018
Cadmium	EPA 2001	Metals		SC LAP	4/10/2018
Copper	EPA 2001	Metals		SC LAP	4/10/2012
Copper	EPA 2001	Metals		SC LAP	1/10/2014
Copper	EPA 2001	Metals		SC LAP	4/10/2018
Copper	EPA 2001	Metals		SC LAP	4/10/2018
Chromium	EPA 2001	Metals		SC LAP	4/10/2012
Chromium	EPA 2001	Metals		SC LAP	1/10/2014
Chromium	EPA 2001	Metals		SC LAP	4/10/2018
Chromium	EPA 2001	Metals		SC LAP	4/10/2018
Chromium (Pb2+) (Mn2+)	MSL 21106	General Chemistry		SC LAP	4/10/2012
Chromium	EPA 2001	Metals		SC LAP	4/10/2012
Chromium	EPA 2001	Metals		SC LAP	1/10/2014
Chromium	EPA 2001	Metals		SC LAP	4/10/2018

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Issue Date: 7/1/2022

Expiration Date: 6/30/2023



Laboratory Scope of Accreditation

Attachment to Certificate #: E81315-22, expiration date June 30, 2023. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E81315

FDA Lab Code:

CAQH031

(770) 534-4100

E81315  
Page Analytical Services, LLC - Atlanta, GA  
110 Technology Parkway  
Peachtree Corners, GA 30092

Matrix	Non-Potable Water				
Analyte	Method Type	Category	Configuration Type	Effective Date	
Chromium	EPA 8007	Metals	SI-LAB	1/10/21	
Chromium	EPA 8001	Metals	SI-LAB	1/10/2004	
Chromium VI	SM 1631-01B 200401-0104 14.1504-015	General Chemistry	SI-LAB	1/10/2007	
Cobalt	EPA 8007	Metals	SI-LAB	4/10/2002	
Cadmium	EPA 8004	Metals	SI-LAB	1/10/2004	
Copper	EPA 8007	Metals	SI-LAB	1/10/2001	
Copper	EPA 8002	Metals	SI-LAB	4/10/2004	
Cadmium	SM 1631-01B	General Chemistry	SI-LAB	4/10/2002	
Copper	EPA 8007	Metals	SI-LAB	4/10/2002	
Copper	EPA 8004	Metals	SI-LAB	4/10/2004	
Copper	EPA 8007	Metals	SI-LAB	4/10/2002	
Copper	EPA 8002	Metals	SI-LAB	4/10/2004	
Cyanide Analyte	EPA 8002	Special Chemistry	SI-LAB	1/10/2010	
Fluoride Analyte	SM 4051-B 200401-0104	Microbiology	SI-LAB	1/10/2010	
Fluoride Analyte	SM 4051-B 200401-0104	Microbiology	SI-LAB	1/10/2010	
Formaldehyde	SM 4051-B 200401-0104	Microbiology	SI-LAB	1/10/2010	
Formaldehyde	SM 4051-B 200401-0104	Microbiology	SI-LAB	1/10/2010	
Formaldehyde plus water	SM 4051-B 200401-0104	Microbiology	SI-LAB	1/10/2010	
Iron	EPA 8007	Metals	SI-LAB	4/10/2002	
Iron	EPA 8004	Metals	SI-LAB	1/10/2004	
Iron	EPA 8007	Metals	SI-LAB	1/10/2001	
Iron	EPA 8002	Metals	SI-LAB	4/10/2004	
Iron in formic acid	SM 4051-B 200401-0104	General Chemistry	SI-LAB	1/10/2010	
Lead	EPA 8007	Metals	SI-LAB	4/10/2002	
Lead	EPA 8004	Metals	SI-LAB	4/10/2004	
Lead	EPA 8010	Metals	SI-LAB	4/10/2002	
Lead	EPA 8002	Metals	SI-LAB	4/10/2004	
Lead	EPA 8007	Metals	SI-LAB	1/10/2001	
Lead	EPA 8002	Metals	SI-LAB	4/10/2004	
Lead	EPA 8007	Metals	SI-LAB	4/10/2002	
Lead	EPA 8004	Metals	SI-LAB	1/10/2004	
Lead	EPA 8010	Metals	SI-LAB	1/10/2001	
Lead	EPA 8002	Metals	SI-LAB	4/10/2004	
Magnesium	EPA 8007	Metals	SI-LAB	4/10/2002	
Magnesium	EPA 8004	Metals	SI-LAB	1/10/2004	
Magnesium	EPA 8010	Metals	SI-LAB	1/10/2001	
Magnesium	EPA 8002	Metals	SI-LAB	4/10/2004	

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Issue Date: 7/1/2021

Expiration Date: 6/30/2023









Laboratory Scope of Accreditation

Attachment to Certificate #: EB3315-51, expiration date June 30, 2022. The listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: EB3315      EPA Lab Code: 41A00651      (770) 734-4300

EB3315  
Pure Analytical Services, LLC - Atlanta GA  
110 Technology Parkway  
Perimeter Center, GA 30092

Media: Non-Potable Water

Analyte	Method/Test	Category	Certificate Type	Effective Date
As	17A.020	Metals	MLAP	8/30/2021



Laboratory Scope of Accreditation

Attachment to Certificate #: E01305-03, expiration date June 30, 2017. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: [City/State] EPA List Code: (FAMM01) (770) 514-4300

E01305

Pure Analytical Services, LLC - Atlanta GA  
114 Technology Parkway  
Prichard Corners, GA, 30092

Main: Solid and Chemical Metals

Analyte	Method Code	Category	Certification Type	Effective Date
Aluminum	EPA 8002	Metals	NC LAP	4/07/02
Arsenic	EPA 8004	Metals	NC LAP	4/07/02
Asphalt	EPA 8012	Metals	NC LAP	4/07/02
Boron	EPA 8007	Metals	NC LAP	4/07/04
Benzene	EPA 8012	Metals	NC LAP	4/07/02
Butyl	EPA 8004	Metals	NC LAP	4/07/02
Cadmium	EPA 8008	Metals	NC LAP	4/07/02
Calcium	EPA 8003	Metals	NC LAP	4/07/02
Chromium	EPA 8003	Metals	NC LAP	4/07/02
Cobalt	EPA 8008	Metals	NC LAP	4/07/02
Copper	EPA 8007	Metals	NC LAP	4/07/02
Fluoride Ion	MSD 9050	Microbiology	NC LAP	1/24/03
Total Residue	MSD 9050 2-01	General Chemistry	NC LAP	1/17/02
Iron	EPA 8009	Metals	NC LAP	4/07/02
Lead	EPA 8008	Metals	NC LAP	4/07/02
Magnesium	EPA 8009	Metals	NC LAP	4/07/02
Manganese	EPA 8009	Metals	NC LAP	4/07/02
Mercury	EPA 7001	Metals	NC LAP	4/02/07
Molybdenum	EPA 8009	Metals	NC LAP	4/07/02
Nickel	EPA 8009	Metals	NC LAP	4/07/02
PH	EPA 8015	General Chemistry	NC LAP	4/02/03
Phosphate Ion	EPA 8009	Metals	NC LAP	4/02/02
Potassium	EPA 8009	Metals	NC LAP	4/02/02
Reactive Acid	MSD 9050 19-01	General Chemistry	NC LAP	1/17/03
Reactive Alkali	MSD 9050 19-01	General Chemistry	NC LAP	1/17/03
Selenium	EPA 8009	Metals	NC LAP	4/02/02
Sulfate	EPA 8009	Metals	NC LAP	4/07/02
Sulfide	EPA 8009	Metals	NC LAP	4/02/02
Sulfur	EPA 8009	Metals	NC LAP	1/9/02
Silver Ion	EPA 8009	Metals	NC LAP	4/07/02
Total Chloride	EPA 8009	Metals	NC LAP	4/02/02
Total Chloride Ion (excluding fluoride)	EPA 8009	Metals	NC LAP	4/07/02
Total Ion	EPA 8009	Metals	NC LAP	4/07/02
Total Zinc	EPA 8009	Metals	NC LAP	4/02/02
Zinc	EPA 8009	Metals	NC LAP	4/07/02



**APPENDIX C**

**Piezometer Installation (DGWC-121, B-122D, B-123D)  
and Abandonment (B-84) Report**



June 2, 2022

Project No. 166849621

**Ms. Lauren Hartley, PG**

Southern Company Services  
241 Ralph McGill Blvd NE  
Atlanta, GA 30308  
JAbraham@southernco.com

**WELL AND PIEZOMETER INSTALLATION (DGWC-121, B-122D, B-123D) AND ABANDONMENT (B-84) REPORT, GEORGIA POWER COMPANY - PLANT MCDONOUGH, SMYRNA, GEORGIA**

Dear Ms. Hartley:

Golder Associates USA Inc. (Golder) is submitting this *Piezometer and Well Installation and Abandonment Report* to Southern Company Services, Inc. (SCS) and Georgia Power Company (Georgia Power), which documents the construction of two piezometers and one monitoring well, and abandonment of one piezometer at Plant McDonough in Smyrna, Georgia (Site). Piezometer construction activities were performed in general accordance with the standards described in the Resource Conservation and Recovery Act (RCRA) Technical Enforcement Guidance Document (1986) and the Georgia Water Wells Standards Act of 1985. The installation and abandonment of the piezometers was conducted under the oversight and direction of Rachel Kirkman, a Georgia Registered Professional Geologist (PG).

The field activities for this investigation were performed in March 2022 through April 2022. The field work consisted of the installation and development of one (1) monitoring well and two (2) piezometers, which were installed for purposes of delineation of target constituents for Coal Combustion Residuals (CCR) compliance monitoring in groundwater. Due to construction activities, piezometer B-84 was abandoned in April 2022. Metro Engineering & Surveying (Metro) conducted a survey of the installed wells and piezometers in May 2022. A summary of the activities is presented below. Figure 1 presents the location of each of the newly installed piezometers.

### **Monitoring Well and Piezometer Drilling and Construction Activities**

Monitoring well DGWC-121 and piezometers B-122D and B-123D were drilled and installed by Cascade Drilling, LP, who was contracted through SCS, at the facility in March 2022 through April 2022. Cascade had a current and valid bond with the Water Wells Standards Advisory Council for the state of Georgia at the time of drilling (Appendix A). The driller's name is provided on the boring/construction diagrams presented in Appendix B.

An experienced Golder geologist was present on site to oversee and record the drilling and piezometer construction under the supervision of a professional geologist registered to practice in Georgia (Rachel Kirkman). Drilling methods employed for borehole advancement were rotasonic drilling techniques. The drilling equipment

consisted of a full-sized TSI 150T Truck-Mounted Sonic drilling rig, equipped with 4-inch sonic rods with a 6-inch outer-casing sleeve. During the drilling, continuous core samples were logged in the field for lithologic and geotechnical properties.

Prior to use, and between boreholes, downhole equipment was steam cleaned. The boring (lithologic) logs and piezometer construction records for the newly installed piezometers are included in Appendix B. The construction data are summarized on Table 1, and the locations of the piezometers are provided on Figure 1.

Piezometers were constructed within the borehole using factory-cleaned and sealed Schedule 40 polyvinyl chloride (PVC) products with flush-threaded fittings. Monitoring well DGWC-121 and piezometer B-122D were constructed with a 10-foot section of 4-inch outer diameter (OD) and 2-inch inner diameter (ID), flush-threaded, 0.010-inch factory-slotted PVC, U-Pack screen. To increase the likelihood of water production, piezometer B-123D was constructed with five (5) 10-foot sections of 4-inch outer diameter (OD) and 2-inch inner diameter (ID), flush-threaded, 0.010-inch factory-slotted PVC, U-Pack screens. The well depths for DGWC-121, B-122D, and B-123D are 50 feet, 85 feet, and 160 feet, respectively.

The drillers filled the annulus of each U-Pack screen section with No. 1 filter sand. For each borehole, the screen was placed near the bottom of the borehole, with the remainder of the piezometer constructed from 10-foot sections of 2-inch ID, flush-threaded, PVC casing riser. A flush-threaded PVC end cap was placed on the bottom of each piezometer to provide a 0.4-foot sump/sediment trap, and the top of the piezometers to extend to approximately 2.8 feet above grade. Construction details for the well and piezometers are shown on the boring/construction logs in Appendix B. The PVC products used were American Society for Testing and Materials (ASTM) and National Sanitation Foundation (NSF) rated.

Borehole geophysics was performed on piezometer B-123D to identify potential water-producing fractures to aid in well screen length and placement. Geophysical tests included acoustic televiewer, caliper, heat pulse flow meter, fluid temperature and fluid conductivity. The logs showed water producing features at 113 and 134 feet below ground surface (bgs). As these appeared to be relatively small fractures with low measurable flow (i.e., between 0.018 and 0.027 gallons per minute), the selected screened interval was chosen to target both potential water-bearing zones with a 50-foot screened interval. Borehole geophysical logs are included in Appendix C.

Following placement of the screen and casing, the annular space in each borehole adjacent to the screen was filled with US Standard Sieve size No. 1 filter pack sand as appropriate for the formation. The filter pack sand was placed into the borehole and extended approximately 2 to 3 feet above the depth of the top of the screen. Immediately following placement of the filter pack, each piezometer was pumped using a portable submersible pump until visibly clear water was discharged. A filter pack seal, composed of approximately 2.5 to 3 feet of hydrated 3/8" coated bentonite pellets, was then placed on top of the filter pack by slowly pouring the material down the borehole and tamping it into place. The bentonite was hydrated using potable water and allowed to cure for approximately two hours prior to grouting the piezometer.

Following hydration of the bentonite, the remaining annular space was grouted with an AquaGuard® bentonite grout mixture to approximately 2 feet below ground surface using a tremie method. Based on information provided by the product manufacturer, AquaGuard® is a bentonite grout consisting of bentonite and additives that allow for a mixture of 30% solids by weight to facilitate grouting via tremie pipe, with additives that slow the bentonite curing so that proper placement can be achieved. Each piezometer surface completion consists of a locked, anodized aluminum protective casing and a 4-foot by 4-foot by 4-inch concrete pad with an engraved tag



showing the piezometer name. The annular space of the aluminum protective casing was filled with pea gravel to approximately 2 inches from top of PVC. A weep hole was drilled into the lower side of the protective casing.

### **Piezometer Development Activities**

The newly installed piezometers were developed in April 2022 in general accordance with the *Monitoring Well Development Procedures* prepared by SCS (March 2016), and the US EPA Science and Ecosystem Support Division *Design and Installation of Monitoring Wells* (February 2008). The piezometers were surged using a Reclaimer pump system. During development, water quality measurements of pH, temperature, specific conductance, oxidation reduction potential (ORP), dissolved oxygen (DO), and turbidity were periodically collected using field-calibrated water quality equipment after the piezometer responded to improving conditions. Development activities were conducted utilizing an AquaTroll® multimeter and a Hach turbidimeter and for monitoring water quality measurements. Equipment calibration forms and development forms are included in Appendix B with development details summarized in Table 2.

During development, a turbidity value below 10 nephelometric turbidity units (NTUs) was achieved at each well and piezometer. Water level measurements were collected using a decontaminated electronic water level indicator, referenced to a permanent marking at the top of the casing and recorded to within 0.01 foot.

### **Piezometer Survey**

The newly installed piezometers and well were surveyed on May 9, 2022 by Metro Survey and Engineering. The survey was completed using Leica GS18T (survey-grade) global positioning system receiver and a closed level check loop with a Leica DNA 10 digital level with a positional tolerance of 0.5/0.01' H:V. The top of the PVC casing was surveyed to 0.5 foot horizontal and 0.01-foot vertical tolerance, and a marking was made on the PVC to use for reference during future measurements. Surveyed coordinates and elevations are presented on the boring/construction diagrams and on Table 1. The certified surveyor's report is attached as Appendix C.

### **Piezometer Abandonment**

Piezometer B-84 was damaged during construction activities for infrastructure updates and required abandonment in place by SCS's Civil Field Service Team. The abandonment was done under the oversight of Duane Fulton and under the supervision of a professional geologist registered to practice in Georgia (Rachel Kirkman) on April 28, 2022. The well was abandoned by backfilling the 2-inch PVC with time-released 3/8" TR-30 Pel-Plug bentonite pellets from 35 feet to 49.3 feet; and the remaining PVC was abandoned with 6.5 gallons of AquaGuard® bentonite grout mixture. There were no above-ground surface completions to remove.

### **Closing**

We appreciate the opportunity to assist SCS and Georgia Power with this project. Should you have any questions or require additional information, please contact the undersigned at (770) 496-1893.

Sincerely,

**Golder Associates USA Inc.**



Rachel P. Kirkman, PG  
*Director, Geologist*

Dawn L. Prell, CPG  
*Senior Consultant, Hydrogeologist*





RPK/DP/kld

- Attachments:
- Figure 1: Monitoring Well and Piezometer Location Map
  - Table 1: Summary of Piezometer Construction Details
  - Table 2: Summary of Piezometer Development
  - Appendix A: Cascade and SCS Drilling Bonds
  - Appendix B: Boring Logs/Construction Diagrams, Development Forms and Calibration Logs
  - Appendix C: Geophysical Record of Borehole B-123D
  - Appendix D: Certified Well Survey

Figure



**LEGEND**

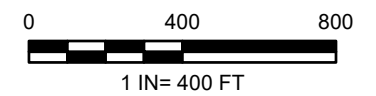
-  AP-1 MONITORING WELL
-  PIEZOMETER
-  PROPERTY BOUNDARY
-  PERMIT BOUNDARY

**NOTES**

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

**REFERENCE**

1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND AUGUST 04, 2021 AND OCTOBER 08, 2021 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
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 MAY 2022.




CLIENT  
 GEORGIA POWER COMPANY  
 PLANT MCDONOUGH



PROJECT  
 WELL AND PIEZOMETER INSTALLATION (DGWC-121, B-122D, B-123D) AND ABANDONMENT (B-84) REPORT

TITLE  
**MONITORING WELL AND PIEZOMETER LOCATION MAP**

CONSULTANT	YYYY-MM-DD	2022-05-10
	PREPARED	JVW
	DESIGN	JVW
	CHECKED	DP/RPK
	REVIEWED/APPROVED	RPK

PROJECT No. 166849621      Rev. 0      FIGURE 1

THIS SHEET HAS BEEN MODIFIED FROM ANS/B

## Tables

**TABLE 1**  
**SUMMARY OF MONITORING WELL AND PIEZOMETER CONSTRUCTION DETAILS**  
 Georgia Power Company - Plant McDonough

Borehole ID	Latitude	Longitude	NAD 83 Northing	NAD 83 Easting	Elevation On Top Of PVC (feet NAVD88)	Elevation Ground Surface (feet NAVD88)	Ground Surface Elevation at Concrete Pad (feet NAVD88) <sup>[1]</sup>	Total Depth (feet bgs)	Depth to Bedrock (feet bgs)	Screened Interval (feet bgs)	Core Available	Water Level (feet bTOC)	Date Installed
B-84 <sup>[2]</sup>	33.821939	-84.477307	1390411.7	2202241.5	776.24	776.27	776.6	50.0	> 50.0	39.1-49.1	NA	24.10	10/1/2019
DGWC-121	33.822829	-84.481895	1390739.7	2200849.4	764.16	764.52	764.6	50.0	46.0	39.7-49.7	Sonic Core	9.40	3/22/2022
B-122D	33.823541	-84.474897	1390992.8	2202975.4	777.03	777.32	777.3	85.0	41.0	69.8-79.8	Sonic Core	30.25	3/24/2022
B-123D	33.824203	-84.476108	1391234.4	2202608.4	781.80	778.85	779.0	160.0	31.5	110-160	Sonic Core	13.20	4/4/2022

**Notes:**

1. Ground surface measured at the mag nail in the concrete pad.
  2. Piezometer B-84 was abandoned on 4/28/2022 as described in the text.
- NAD - North American Datum  
 NAVD88 - North American Vertical Datum 1988  
 NA - Not Available  
 bgs - Below ground surface  
 bTOC - Below Top of Casing  
 Survey Data from Metro Engineering & Surveying Co., Inc.  
 ID - Identification  
 PVC - Polyvinyl chloride

**TABLE 2**  
**SUMMARY OF PIEZOMETER DEVELOPMENT**  
 Georgia Power Company - Plant McDonough

Piezometer ID	Date Started	Time Started (hr:min)	Development Method	Measured Total Depth of Well (feet bTOC)	Initial Water level (feet bTOC)	Final Water Level (feet bTOC)	Volume of Casing (gal)	Total Volume Removed (gal)	pH (SU)	Specific Conductance (mS/cm)	Temp (°C)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
DGWC-121	4/12/2022	11:15	Reclaimer Pump	49.37	8.68	22.95	6.6	40	6.26	0.379	19.20	4.69	33.0	3.37
B-122D	4/7/2022	11:24	Reclaimer Pump	80.78	26.56	33.89	8.84	38	6.07	0.574	18.10	4.32	35.7	2.16
B-123D	4/8/2022	13:50	Reclaimer Pump	162.86	11.76	67.01	24.63	138	6.64	0.795	20.79	4.56	-33.7	6.50

**Notes:**

hr:min - hours:minutes	mV - millivolts
bTOC - feet below Top of Casing	mg/L - milligrams per liter
gal - gallons	ORP - oxygen reduction potential
SU - Standard Units	DO - dissolved oxygen
mS/cm - millisiemens per centimeter	ID - Identification
°C - degrees Celcius	PVC - Polyvinyl chloride
NTU - nephelometric turbidity units	Temp - Temperature

**APPENDIX A**

# Cascade Drilling Bond





# Power of Attorney

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Deanna M. French, Susan B. Larson, Elizabeth R. Hahn, Jana M. Roy, Scott McGilvray, Mindee L. Rankin, Ronald J. Lange, John R. Claeys, Roger Kaltenbach, Guy Armfield, Scott Fisher, Andrew P. Larsen, Nicholas Fredrickson, William M. Smith, Derek Sabo, Charla M. Boadle**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **unlimited** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

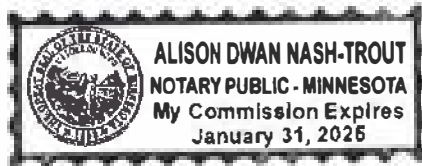
IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this twenty-seventh day of April, 2020.



By   
Paul J. Brehm, Senior Vice President

STATE OF MINNESOTA  
HENNEPIN COUNTY

On this twenty-seventh day of April, 2020, before me personally came Paul J. Brehm, Senior Vice President of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and he acknowledged the execution of the same, and being by me duly sworn, that he is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.



  
Notary Public

I, the undersigned, Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set forth above are now in force.

Signed and sealed. Dated 12 day of April, 2021.

This Power of Attorney expires  
January 31, 2025



  
Kara Barrow, Secretary

CONTINUATION  
CERTIFICATE

Atlantic Specialty Insurance Company

, Surety upon

a certain Bond No. 800033976

dated effective 09/27/2017  
(MONTH-DAY-YEAR)

on behalf of Ricky Davis / Cascade Drilling, L.P.  
(PRINCIPAL)

and in favor of Department of Natural Resources, State of Georgia  
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on 06/30/2021  
(MONTH-DAY-YEAR)

and ending on 06/30/2023  
(MONTH-DAY-YEAR)

Amount of bond Thirty Thousand and 00/100 Dollars (\$30,000.00)

Description of bond Performance Bond for Water Well Contractors

**PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.**

Signed and dated on April 12th, 2021  
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

Andrew P. Larsen  
Attorney-in-Fact Andrew P. Larsen

Parker, Smith & Feek, Inc.

Agent

2233 112th Ave NE Bellevue, WA 98004

Address of Agent

425-709-3600

Telephone Number of Agent

CONTINUATION  
CERTIFICATE

SAFECO Insurance Company of America

, Surety upon

a certain Bond No. **4993104**

dated effective June 30, 1987  
(MONTH-DAY-YEAR)

on behalf of Southern Company Services, Inc.  
(PRINCIPAL)

and in favor of Georgia Department of Natural Resources, Environmental Protection Division  
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on June 30, 2021  
(MONTH-DAY-YEAR)

and ending on June 30, 2022  
(MONTH-DAY-YEAR)

Amount of bond Fifteen Thousand Dollars and 00/100 (\$15,000.00)

Description of bond Water Well Contractors & Drillers

Premium: \$100.00

**PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.**

Signed and dated on 05/06/2021  
(MONTH-DAY-YEAR)

SAFECO Insurance Company of America  
175 Berkeley Street, Boston, MA 02116

  
\_\_\_\_\_  
Jeffrey M. Wilson, Attorney-in-Fact

McGriff Insurance Services, Inc.  
Agent

2211 7th Avenue South, Birmingham, AL 35233  
Address of Agent

(205) 252-9871  
Telephone Number of Agent



This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

American States Insurance Company
First National Insurance Company of America
General Insurance Company of America
Safeco Insurance Company of America

Certificate No: 8205019-016032

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That American States Insurance Company is a corporation duly organized under the laws of the State of Indiana, that First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America are corporations duly organized under the laws of the State of New Hampshire (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Alisa B. Ferris; Anna Childress; Jeffrey M. Wilson; Mark W. Edwards II; Richard H. Mitchell; Robert R. Freel; Sam Audia; William M. Smith

all of the city of Birmingham state of AL each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 11th day of March, 2021.



American States Insurance Company
First National Insurance Company of America
General Insurance Company of America
Safeco Insurance Company of America

By: [Signature]

David M. Carey, Assistant Secretary

State of PENNSYLVANIA ss
County of MONTGOMERY

On this 11th day of March, 2021 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2025
Commission number 1126044
Member, Pennsylvania Association of Notaries

By: [Signature]

Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-law and Authorizations of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America, which are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorney-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 6th day of May, 2021.



By: [Signature]

Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.

CONTINUATION  
CERTIFICATE

SAFECO Insurance Company of America

, Surety upon

a certain Bond No. **4993104**

dated effective June 30, 1987  
(MONTH-DAY-YEAR)

on behalf of Southern Company Services, Inc.  
(PRINCIPAL)

and in favor of Georgia Department of Natural Resources, Environmental Protection Division  
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on June 30, 2022  
(MONTH-DAY-YEAR)

and ending on June 30, 2023  
(MONTH-DAY-YEAR)

Amount of bond Fifteen Thousand Dollars and 00/100 (\$15,000.00)

Description of bond Water Well Contractors & Drillers

Premium: \$100.00

**PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.**

Signed and dated on 05/06/2021  
(MONTH-DAY-YEAR)

SAFECO Insurance Company of America  
175 Berkeley Street, Boston, MA 02116

  
By Jeffrey M. Wilson, Attorney-in-Fact

McGriff Insurance Services, Inc.  
Agent

2211 7th Avenue South, Birmingham, AL 35233  
Address of Agent

(205) 252-0871  
Telephone Number of Agent



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First National Insurance Company of America
General Insurance Company of America
Safeco Insurance Company of America

Certificate No: 8205019-016032

POWER OF ATTORNEY

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all of the city of Birmingham state of AL each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 11th day of March, 2021.



American States Insurance Company
First National Insurance Company of America
General Insurance Company of America
Safeco Insurance Company of America

By: [Signature]
David M. Carey, Assistant Secretary

State of PENNSYLVANIA ss
County of MONTGOMERY

On this 11th day of March, 2021 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2025
Commission number 1126044
Member, Pennsylvania Association of Notaries

By: [Signature]
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-law and Authorizations of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America, which are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorney-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 6th day of May, 2021.



By: [Signature]
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.

**APPENDIX B**

**Boring Logs/Construction  
Diagrams, Development Forms and  
Calibration Logs**

# RECORD OF BOREHOLE B-84

SHEET 1 of 2

PROJECT: Plant McDonough  
 PROJECT NUMBER: 1668496-01  
 DRILLED DEPTH: 50.00 ft  
 LOCATION: NE of security gate, along road

DRILL RIG: CME550X  
 DATE STARTED: 10/1/19  
 DATE COMPLETED: 10/1/19

NORTHING: 1,390,411.65  
 EASTING: 2,202,242.51  
 GS ELEVATION: 776.27  
 TOC ELEVATION: 776.24 ft

DEPTH W.L.: 24.10  
 DATE W.L.: 10/1/2019  
 TIME W.L.: 1140  
 GW ELEVATION:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES				MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop			N-VALUE
0	775	0.00 - 14.50 Hydrovac to 14.5' for utilities								AquaGuard Bentonite Grout	<b>WELL CASING</b> Interval: 0'-39.1' Material: Schedule 40 PVC Diameter: 2" Joint Type: Flush/Screw  <b>WELL SCREEN</b> Interval: 39.1'-49.1' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC  <b>FILTER PACK</b> Interval: 36.0'-49.5' Type: Filter Media  <b>FILTER PACK SEAL</b> Interval: 30.6'-36.0' Type: PEL-PLUG 3/8"  <b>ANNULUS SEAL</b> Interval: 0'-30.6' Type: AquaGuard Bentonite Grout  <b>WELL COMPLETION</b> Pad: 2' x 2' concrete Protective Casing: 8" Round Ground Flush  <b>DRILLING METHODS</b> Soil Drill: 4.25-inch ID Hollow Stem Auger Rock Drill: N/A
15	760	14.50 - 20.00 ML-CL, silty CLAY with some gravel, brown-black, micaceous, W-PL, moist, very soft	CL-ML	761.77 14.50	S1	SS	3-1-2	3	0.75 1.50		
20	755	20.00 - 25.00 ML, sandy SILT with some gravel, brown-black, dry, W<PL, very soft	ML	758.27 20.00							
25	750	25.00 - 30.00 CL, silty CLAY with some gravel, brown-black, micaceous, W-PL, moist, very soft to soft	CL	751.27 25.00	S2	SS	3-2-3	5	0.75 1.50		
30	745	30.00 - 35.00 CL, silty CLAY with some sand, brown-black with tan, W-PL, moist	CL	746.27 30.00	S3	SS	1-2-3	5	1.50 1.50		
35	740	35.00 - 39.00 CL, silty CLAY, brown-black, W-PL, wet to moist	CL	741.27 35.00	S4	SS	2-2-3	5	1.50 1.50	PEL-PLUG 3/8" Bentonite Pellets	
40	735	39.00 - 40.00 SM, silty SAND with gravel, black-grey, moist, compact	SM	737.27 39.00	S5	SS	15-18-11	29	1.50 1.50		
40	735	40.00 - 44.00 CL, silty CLAY, brown-black, W-PL, moist, very soft to soft	CL	736.27 40.00							
45	732.27	44.00 - 45.00 ML, gravelly SILT with some sand, Log continued on next page	ML	732.27 44.00 731.27	S6	SS	7-7-8	17	1.50 1.50	0.010" Slotted	

BOREHOLE RECORD MCDONOUGH MASTER LIST.GPJ PIEDMONT.GDT 2/11/20

LOG SCALE: 1 in = 5.5 ft  
 DRILLING COMPANY: Southern Company Services  
 DRILLER: S. Milam

GA INSPECTOR: K. Minkara  
 CHECKED BY: Brian Steele, PG  
 DATE: 2/11/20





# RECORD OF BOREHOLE B-84

SHEET 2 of 2

PROJECT: Plant McDonough  
 PROJECT NUMBER: 1668496-01  
 DRILLED DEPTH: 50.00 ft  
 LOCATION: NE of security gate, along road

DRILL RIG: CME550X  
 DATE STARTED: 10/1/19  
 DATE COMPLETED: 10/1/19

NORTHING: 1,390,411.65  
 EASTING: 2,202,242.51  
 GS ELEVATION: 776.27  
 TOC ELEVATION: 776.24 ft

DEPTH W.L.: 24.10  
 DATE W.L.: 10/1/2019  
 TIME W.L.: 1140  
 GW ELEVATION:

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES					MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop	N-VALUE	REC		
45	730	brown-black, micaceous, PWR, moist 45.00 - 50.00 ML, sandy SILT with gravel, brown-black, PWR, W<PL, wet to moist, PWR, very dense	ML		45.00						Schedule 40 PVC 	<p><b>WELL CASING</b> Interval: 0'-39.1' Material: Schedule 40 PVC Diameter: 2" Joint Type: Flush/Screw</p> <p><b>WELL SCREEN</b> Interval: 39.1'-49.1' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p><b>FILTER PACK</b> Interval: 36.0'-49.5' Type: Filter Media</p> <p><b>FILTER PACK SEAL</b> Interval: 30.6'-36.0' Type: PEL-PLUG 3/8"</p> <p><b>ANNULUS SEAL</b> Interval: 0'-30.6' Type: AquaGuard Bentonite Grout</p> <p><b>WELL COMPLETION</b> Pad: 2' x 2' concrete Protective Casing: 8" Round Ground Flush</p> <p><b>DRILLING METHODS</b> Soil Drill: 4.25-inch ID Hollow Stem Auger Rock Drill: N/A</p>
50		Boring completed at 50.00 ft			726.27	S7	SS	25-33-24	57	1.50 1.50		
55	720											
60	715											
65	710											
70	705											
75	700											
80	695											
85	690											
90												

Abandoned 4/28/2022

BOREHOLE RECORD MCDONOUGH MASTER LIST.GPJ PIEDMONT.GDT 2/12/20

LOG SCALE: 1 in = 5.5 ft  
 DRILLING COMPANY: Southern Company Services  
 DRILLER: S. Milam

GA INSPECTOR: K. Minkara  
 CHECKED BY: Brian Steele, PG  
 DATE: 2/11/20



# RECORD OF BOREHOLE DGWC-121

SHEET 1 of 2

PROJECT: SCS Plant McDonough  
 PROJECT NUMBER: GL166849621  
 DRILLED DEPTH: 50.00 ft  
 LOCATION: Smyrna, GA

DRILL RIG: Terra Sonic 150T  
 Truck-Mounted Sonic  
 DATE STARTED: 3/22/22  
 DATE COMPLETED: 3/22/22

NORTHING: 1,390,739.7  
 EASTING: 2,200,849.4  
 GS ELEVATION: 764.52  
 TOC ELEVATION: 764.16 ft

DEPTH W.L.: 9.4'  
 ELEVATION W.L.: 755.12  
 DATE W.L.: 3/22/22  
 TIME W.L.: 19:25

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO	REC		
0		0.00 - 8.00 Fill material								<p><b>WELL CASING</b> Interval: 0'-39.7' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 39.7'-49.7' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 37.5'-49.7' Type: Filter Sil - Filtration sand and gravel, industrial quartz Quantity: 3.5 x 50 lb bag</p> <p><b>FILTER PACK SEAL</b> Interval: 34'-37.5' Type: Pel Plug Bentonite Pellets Quantity: 1 x 50 lb bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0'-34' Type: Aquaguard bentonite grout Quantity: 2 bags Aquaguard + 40 gal water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Sonic Rock Drill: Sonic Sample Type: Sonic</p>
5	760				756.52	1		6.50 10.00		
		8.00 - 10.00 MH, CLAYEY SILT; very micaceous, little fine to coarse sand, brown/red brown, saprolitic, dry	MH		8.00					
10	755				754.52					
		10.00 - 20.00 ML, fine sandy SILT; very micaceous, little clay, brown to dark brown, saprolitic, crenulated, dry	ML		10.00	2		9.75 10.00		
15	750									
		20.00 - 29.50 SW-ML, fine SAND and SILT; very micaceous, little clay, dark brown to brown, iron staining, saprolitic, moist	SW-ML		20.00	3		9.75 10.00		
20	745				744.52					
		29.50 - 30.00 TWR, Transitionally Weathered Rock; muscovite schist	TWR		30.00					
25	740									
		30.00 - 40.00 TWR; fine to coarse gravel with fine sandy silt, little clay, friable, very micaceous, brown to dark brown, orange iron staining in soils, moist	TWR		30.00	4		9.75 10.00		
30	735				735.02					
		40.00 - 48.50 TWR; same as above	TWR		40.00	5		7.50 10.00		
35	730									
		48.50 - 50.00 muscovite SCHIST, fine to coarse grained, medium strong,			48.50					
40	725				724.52					
45	720									
50	715				716.02 714.52					

BOREHOLE RECORD: PLANT MCDONOUGH\_DGWC-121, B-122D, B-123D, GPJ, PIEDMONT, GDT, 5/13/22

LOG SCALE: 1 in = 6.5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Corey Franklin

GA INSPECTOR: Connor Mikilitus  
 CHECKED BY: Rachel Kirkman, PG  
 DATE: 5/10/22



Pel Plug Bentonite Pellets  
 Filter Sil Filtration sand and gravel 0.010" Slotted Schedule 40 PVC U-pack Screen

Log continued on next page

# RECORD OF BOREHOLE DGWC-121

SHEET 2 of 2

PROJECT: SCS Plant McDonough  
 PROJECT NUMBER: GL166849621  
 DRILLED DEPTH: 50.00 ft  
 LOCATION: Smyrna, GA

DRILL RIG: Terra Sonic 150T  
 Truck-Mounted Sonic  
 DATE STARTED: 3/22/22  
 DATE COMPLETED: 3/22/22

NORTHING: 1,390,739.7  
 EASTING: 2,200,849.4  
 GS ELEVATION: 764.52  
 TOC ELEVATION: 764.16 ft

DEPTH W.L.: 9.4'  
 ELEVATION  
 W.L.: 755.12  
 DATE W.L.: 3/22/22  
 TIME W.L.: 19:25

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO	REC		
50		slightly to moderately weathered, slightly to moderately fractured, some iron staining  Boring completed at 50.00 ft							<b>WELL CASING</b> Interval: 0'-39.7' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded  <b>WELL SCREEN</b> Interval: 39.7'-49.7' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3"  <b>FILTER PACK</b> Interval: 37.5'-49.7' Type: Filter Sil - Filtration sand and gravel, industrial quartz Quantity: 3.5 x 50 lb bag  <b>FILTER PACK SEAL</b> Interval: 34'-37.5' Type: Pel Plug Bentonite Pellets Quantity: 1 x 50 lb bucket  <b>ANNULUS SEAL</b> Interval: 0'-34' Type: Aquaguard bentonite grout Quantity: 2 bags Aquaguard + 40 gal water  <b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum  <b>DRILLING METHODS</b> Soil Drill: Sonic Rock Drill: Sonic Sample Type: Sonic	
55	710									
60	705									
65	700									
70	695									
75	690									
80	685									
85	680									
90	675									
95	670									
100	665									

BOREHOLE RECORD PLANT MCDONOUGH\_DGWC-121, B-122D, B-123D.GPJ - PIEDMONT.GDT 5/13/22

LOG SCALE: 1 in = 6.5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Corey Franklin

GA INSPECTOR: Connor Mikilitus  
 CHECKED BY: Rachel Kirkman, PG  
 DATE: 5/10/22



# RECORD OF BOREHOLE B-122D

SHEET 1 of 2

PROJECT: SCS Plant McDonough  
 PROJECT NUMBER: GL166849621  
 DRILLED DEPTH: 85.00 ft  
 LOCATION: Smyrna, GA

DRILL RIG: Terra Sonic 150T  
 Truck-Mounted Sonic  
 DATE STARTED: 3/24/22  
 DATE COMPLETED: 3/24/22

NORTHING: 1,390,992.8  
 EASTING: 2,202,975.4  
 GS ELEVATION: 777.32  
 TOC ELEVATION: 777.03 ft

DEPTH W.L.: 30.25  
 ELEVATION W.L.: 747.07  
 DATE W.L.: 3/25/22  
 TIME W.L.: 8:15

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO	REC		
0	775	0.00 - 10.00 FILL, CL, SILTY CLAY, moist, micaceous, trace of organics; air knifed for utility clearance			767.32	1		NA 10.00		<p><b>WELL CASING</b> Interval: 0'-69.8' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 69.8'-79.8' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 67.8'-85' Type: Filter Sil - Filtration sand and gravel, industrial quartz Quantity: 5 x 50 lb bag</p> <p><b>FILTER PACK SEAL</b> Interval: 64.2'-67.8' Type: Pel Plug Bentonite Pellets Quantity: 1 x 50 lb bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0'-64.2' Type: Aquaguard bentonite grout Quantity: 3 batches of 2 bags Aquaguard + 40 gal water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Sonic Rock Drill: Sonic Sample Type: Sonic</p>
5	770				757.32	2	8.50 10.00			
10	765	10.00 - 20.00 CL, SILTY CLAY, moist, high plasticity, little fine to coarse gravel, orange to brown, schist fragments	CH		757.32	2	8.50 10.00			
15	760				757.32	2	8.50 10.00			
20	755	20.00 - 30.00 SP-SM, SAND and SILT, dark brown, iron staining, low plasticity, weathered boulder encountered, muscovite, biotite schist boulder			747.32	3	6.50 10.00			
25	750		SP-SM		747.32	3	6.50 10.00			
30	745	30.00 - 40.00 SP-SM, SAND, moist, dark gray, fine grained, trace of organics, rounded shape			737.32	4	9.75 10.00			
35	740		SP-SM		737.32	4	9.75 10.00			
40	735	40.00 - 41.00 SP-SM, SILTY SAND, dark brown, little iron staining, fine, rounded shape	SP-SM		40.00 736.32	5	9.75 10.00			
45	730	41.00 - 50.00 muscovite biotite SCHIST, strong, fresh to slightly weathered, slightly fractured, fine to coarse grains, little iron staining			41.00 727.32	5	9.75 10.00			
50	730	Log continued on next page			727.32					

BOREHOLE RECORD PLANT MCDONOUGH\_DGWC-121, B-122D, B-123D.GPJ - PIEDMONT.GDT 5/13/22

LOG SCALE: 1 in = 6.5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Corey Franklin

GA INSPECTOR: Connor Mikilitus  
 CHECKED BY: Rachel Kirkman, PG  
 DATE: 5/10/22



# RECORD OF BOREHOLE B-122D

SHEET 2 of 2

PROJECT: SCS Plant McDonough  
 PROJECT NUMBER: GL166849621  
 DRILLED DEPTH: 85.00 ft  
 LOCATION: Smyrna, GA

DRILL RIG: Terra Sonic 150T  
 Truck-Mounted Sonic  
 DATE STARTED: 3/24/22  
 DATE COMPLETED: 3/24/22

NORTHING: 1,390,992.8  
 EASTING: 2,202,975.4  
 GS ELEVATION: 777.32  
 TOC ELEVATION: 777.03 ft

DEPTH W.L.: 30.25  
 ELEVATION W.L.: 747.07  
 DATE W.L.: 3/25/22  
 TIME W.L.: 8:15

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO			REC
50		50.00 - 60.00 Muscovite biotite SCHIST, strong, fresh, unfractured, fine to coarse grains		[Graphic Log Pattern]	50.00				<p><b>WELL CASING</b> Interval: 0'-69.8' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 69.8'-79.8' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 67.8'-85' Type: Filter Sil - Filtration sand and gravel, industrial quartz Quantity: 5 x 50 lb bag</p> <p><b>FILTER PACK SEAL</b> Interval: 64.2'-67.8' Type: Pel Plug Bentonite Pellets Quantity: 1 x 50 lb bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0'-64.2' Type: Aquaguard bentonite grout Quantity: 3 batches of 2 bags Aquaguard + 40 gal water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Sonic Rock Drill: Sonic Sample Type: Sonic</p>	
725							6			6.50 10.00
55										
720										
60		60.00 - 65.00 Same as above			717.32 60.00					
715										
65		65.00 - 70.00 muscovite biotite SCHIST, strong, fresh to slightly weathered, slightly fractured, fine to coarse grained, traces of iron staining			712.32 65.00		7			9.50 10.00
710										
70		70.00 - 73.00 Same as above, some iron staining, slightly to moderately fractured			707.32 70.00					
705										
75		73.00 - 80.00 muscovite biotite SCHIST, strong fresh, unfractured, fine to coarse grained			704.32 73.00		8	9.20 10.00		
700										
80		80.00 - 85.00 muscovite biotite SCHIST, strong fresh to slightly weathered, slightly fractured, fine to coarse grained, trace to little iron staining			697.32 80.00		9	5.00 5.00		
695										
85		Boring completed at 85.00 ft			692.32					
690										
90										
685										
95										
680										
100										

BOREHOLE RECORD PLANT MCDONOUGH\_DGWC-121, B-122D, B-123D.GPJ - PIEDMONT.GDT 5/13/22

LOG SCALE: 1 in = 6.5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Corey Franklin

GA INSPECTOR: Connor Mikilitus  
 CHECKED BY: Rachel Kirkman, PG  
 DATE: 5/10/22



# RECORD OF BOREHOLE B-123D

SHEET 1 of 4

PROJECT: SCS Plant McDonough  
 PROJECT NUMBER: GL166849621  
 DRILLED DEPTH: 160.00 ft  
 LOCATION: Smyrna, GA

DRILL RIG: Terra Sonic 150T  
 Truck-Mounted Sonic  
 DATE STARTED: 3/25/22  
 DATE COMPLETED: 4/4/22

NORTHING: 1,391,234.4  
 EASTING: 2,202,608.4  
 GS ELEVATION: 778.85  
 TOC ELEVATION: 781.80 ft

DEPTH W.L.: 13.2  
 ELEVATION W.L.: 765.65  
 DATE W.L.: 4/4/22  
 TIME W.L.: 14:55

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO			REC
0		0.00 - 10.00 FILL, CL, SILTY CLAY, moist, micaceous, trace of organics; Air knifed for utility clearance	CL	[Hatched Pattern]	768.85	1			<p><b>WELL CASING</b> Interval: 0'-110' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 110'-160' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 107.3'-160' Type: Filter Sil - Filtration sand and gravel, industrial quartz Quantity: 16 x 50 lb bag</p> <p><b>FILTER PACK SEAL</b> Interval: 62.5'-107.3' Type: Pel Plug Bentonite Pellets / Haliburton Bentonite Chips 3/8" Quantity: 3 x 50 lb bucket, 10 bags chips</p> <p><b>ANNULUS SEAL</b> Interval: 0'-55.5' Type: Aquaguard bentonite grout Quantity: 2.5 batches of 2 bags Aquaguard + 40 gal water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Sonic Rock Drill: Sonic Sample Type: Sonic</p>	
5						NA	10.00			
10		10.00 - 20.00 ML-CH, SILT and CLAY, moist, red, orange, brown, some fine sand, trace of fine schist gravel, micaceous	ML-CH	[Diagonal Pattern]	758.85	2	9.75			10.00
15										
20		20.00 - 28.00 Same as above	ML-CH	[Diagonal Pattern]	750.85	3	8.50			10.00
25										
30		28.00 - 30.00 ML, sandy SILT, moist, gray, fine, trace of coarse gravel	ML	[Vertical Lines]	748.85					
35		30.00 - 31.50 Same as above	ML	[Vertical Lines]	747.35					
40		31.50 - 40.00 muscovite biotite SCHIST, fine grained, strong, slightly to moderately weathered, slight, fractured, some iron staining		[Wavy Pattern]	738.85	4	9.75	10.00		
45										
50		40.00 - 50.00 muscovite biotite garnet SCHIST, fine to coarse grained, strong, fresh to slightly weathered, slightly fractured, traces iron staining		[Wavy Pattern]	728.85	5	7.50	10.00		

BOREHOLE RECORD PLANT MCDONOUGH\_DGWC-121, B-122D, B-123D.GPJ\_PIEDMONT.GDT 5/13/22

Log continued on next page

LOG SCALE: 1 in = 6.5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Corey Franklin

GA INSPECTOR: Connor Mikilitus  
 CHECKED BY: Rachel Kirkman, PG  
 DATE: 5/10/22



# RECORD OF BOREHOLE B-123D

SHEET 2 of 4

PROJECT: SCS Plant McDonough  
 PROJECT NUMBER: GL166849621  
 DRILLED DEPTH: 160.00 ft  
 LOCATION: Smyrna, GA

DRILL RIG: Terra Sonic 150T  
 Truck-Mounted Sonic  
 DATE STARTED: 3/25/22  
 DATE COMPLETED: 4/4/22

NORTHING: 1,391,234.4  
 EASTING: 2,202,608.4  
 GS ELEVATION: 778.85  
 TOC ELEVATION: 781.80 ft

DEPTH W.L.: 13.2  
 ELEVATION W.L.: 765.65  
 DATE W.L.: 4/4/22  
 TIME W.L.: 14:55

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS		
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO	REC				
50		50.00 - 60.00 muscovite biotite SCHIST, fine to coarse grained, strong, fresh to slightly weathered, slightly fractured, traces of iron staining		[Graphic Log Pattern]	50.00					<p><b>WELL CASING</b> Interval: 0'-110' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 110'-160' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 107.3'-160' Type: Filter Sil - Filtration sand and gravel, industrial quartz Quantity: 16 x 50 lb bag</p> <p><b>FILTER PACK SEAL</b> Interval: 62.5'-107.3' Type: Pel Plug Bentonite Pellets / Haliburton Bentonite Chips 3/8" Quantity: 3 x 50 lb bucket, 10 bags chips</p> <p><b>ANNULUS SEAL</b> Interval: 0'-55.5' Type: Aquaguard bentonite grout Quantity: 2.5 batches of 2 bags Aquaguard + 40 gal water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Sonic Rock Drill: Sonic Sample Type: Sonic</p>		
725						6	9.30 10.00					
55												
720												
60		60.00 - 70.00 muscovite biotite chlorite SCHIST, fine to coarse grained, strong, fresh, unfractured to slightly fractured, trace of iron staining		[Graphic Log Pattern]	718.85 60.00			7			9.50 10.00	
715												
65												
710												
70		70.00 - 80.00 muscovite biotite SCHIST, fine to coarse grained, strong, fresh, unfractured to slightly weathered, slightly fractured, secondary mineralization of fractures, trace of iron staining		[Graphic Log Pattern]	708.85 70.00						8	9.50 10.00
705												
75												
700												
80		80.00 - 90.00 muscovite biotite SCHIST, fine to coarse grained, strong, fresh, unfractured to slightly weathered, slightly fractured, secondary mineralization of fractures, trace of iron staining		[Graphic Log Pattern]	698.85 80.00				9	7.50 10.00		
695												
85												
690												
90		90.00 - 100.00 muscovite biotite SCHIST, fine to coarse grained, strong, fresh, fresh to slightly weathered, unfractured to slightly fractured		[Graphic Log Pattern]	688.85 90.00				10	8.00 10.00		
685												
95												
680												
100		Log continued on next page			678.85							

BOREHOLE RECORD PLANT MCDONOUGH\_DGWC-121, B-122D, B-123D.GPJ - PIEDMONT.GDT 5/13/22

LOG SCALE: 1 in = 6.5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Corey Franklin

GA INSPECTOR: Connor Mikilitus  
 CHECKED BY: Rachel Kirkman, PG  
 DATE: 5/10/22



# RECORD OF BOREHOLE B-123D

SHEET 3 of 4

PROJECT: SCS Plant McDonough  
 PROJECT NUMBER: GL166849621  
 DRILLED DEPTH: 160.00 ft  
 LOCATION: Smyrna, GA

DRILL RIG: Terra Sonic 150T  
 Truck-Mounted Sonic  
 DATE STARTED: 3/25/22  
 DATE COMPLETED: 4/4/22

NORTHING: 1,391,234.4  
 EASTING: 2,202,608.4  
 GS ELEVATION: 778.85  
 TOC ELEVATION: 781.80 ft

DEPTH W.L.: 13.2  
 ELEVATION W.L.: 765.65  
 DATE W.L.: 4/4/22  
 TIME W.L.: 14:55

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO		
100		100.00 - 110.00 muscovite biotite SCHIST, fine to coarse grained, strong, fresh, fresh to slightly weathered, unfractured to slightly fractured		[Graphic Log Pattern]	100.00				<p><b>WELL CASING</b> Interval: 0'-110' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 110'-160' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 107.3'-160' Type: Filter Sil - Filtration sand and gravel, industrial quartz Quantity: 16 x 50 lb bag</p> <p><b>FILTER PACK SEAL</b> Interval: 62.5'-107.3' Type: Pel Plug Bentonite Pellets / Haliburton Bentonite Chips 3/8" Quantity: 3 x 50 lb bucket, 10 bags chips</p> <p><b>ANNULUS SEAL</b> Interval: 0'-55.5' Type: Aquaguard bentonite grout Quantity: 2.5 batches of 2 bags Aquaguard + 40 gal water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Sonic Rock Drill: Sonic Sample Type: Sonic</p>
675					668.85	11	9.75 10.00		
105					110.00				
670		110.00 - 120.00 muscovite Biotite SCHIST, fine to coarse grained, strong, fresh to slightly weathered, slightly fractured, secondary mineralization of fractures with calcite @ 114' bgs, measured -0.018 gallons per minute (gpm) from borehole geophysics heat-pulse flow meter (HPFM), trace vein quartz		[Graphic Log Pattern]	668.85	12	8.25 10.00		
110					120.00				
665		120.00 - 130.00 Same as above. Water producing fracture at 129.5' identified using borehole geophysics		[Graphic Log Pattern]	658.85	13	9.75 10.00		
115					130.00				
660		130.00 - 140.00 Same as above; Trace secondary mineralization of calcite within fractures @ 131 bgs, water producing fracture at 130.5' identified using borehole geophysics, measured -0.027 gallons per minute (gpm) from HPFM		[Graphic Log Pattern]	648.85	14	9.00 10.00		
120					140.00				
655		140.00 - 150.00 muscovite biotite, garnet SCHIST, fine to coarse grained, strong, fresh to slightly weathered, slightly fractured, calcite precipitation @ 145' bgs		[Graphic Log Pattern]	638.85	15	9.00 10.00		
125					150.00				
650					628.85				
130		Log continued on next page			628.85				

BOREHOLE RECORD PLANT MCDONOUGH\_DGWC-121, B-122D, B-123D.GPJ - PIEDMONT.GDT 5/13/22

LOG SCALE: 1 in = 6.5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Corey Franklin

GA INSPECTOR: Connor Mikilitus  
 CHECKED BY: Rachel Kirkman, PG  
 DATE: 5/10/22





# RECORD OF BOREHOLE B-123D

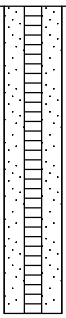
SHEET 4 of 4

PROJECT: SCS Plant McDonough  
 PROJECT NUMBER: GL166849621  
 DRILLED DEPTH: 160.00 ft  
 LOCATION: Smyrna, GA

DRILL RIG: Terra Sonic 150T  
 Truck-Mounted Sonic  
 DATE STARTED: 3/25/22  
 DATE COMPLETED: 4/4/22

NORTHING: 1,391,234.4  
 EASTING: 2,202,608.4  
 GS ELEVATION: 778.85  
 TOC ELEVATION: 781.80 ft

DEPTH W.L.: 13.2  
 ELEVATION W.L.: 765.65  
 DATE W.L.: 4/4/22  
 TIME W.L.: 14:55

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO		
150		150.00 - 160.00 Same as above; calcite @ 157.5' bgs		[Graphic Log Pattern]	150.00				<p><b>WELL CASING</b> Interval: 0'-110' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 110'-160' Material: 0.010" Slotted Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 107.3'-160' Type: Filter Sil - Filtration sand and gravel, industrial quartz Quantity: 16 x 50 lb bag</p> <p><b>FILTER PACK SEAL</b> Interval: 62.5'-107.3' Type: Pel Plug Bentonite Pellets / Haliburton Bentonite Chips 3/8" Quantity: 3 x 50 lb bucket, 10 bags chips</p> <p><b>ANNULUS SEAL</b> Interval: 0'-55.5' Type: Aquaguard bentonite grout Quantity: 2.5 batches of 2 bags Aquaguard + 40 gal water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Sonic Rock Drill: Sonic Sample Type: Sonic</p>
625									
155					16		9.75 10.00		
160		Boring completed at 160.00 ft			618.85				
620									
160									
615									
165									
610									
170									
605									
175									
600									
180									
595									
185									
590									
190									
585									
195									
580									
200									

BOREHOLE RECORD PLANT MCDONOUGH\_DGWC-121, B-122D, B-123D, GPJ, PIEDMONT, GDT, 5/13/22

LOG SCALE: 1 in = 6.5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Corey Franklin

GA INSPECTOR: Connor Mikilitus  
 CHECKED BY: Rachel Kirkman, PG  
 DATE: 5/10/22



**WELL DEVELOPMENT FIELD RECORD**

PROJECT NAME / NUMBER 166849621 Plant McDonough WELL ID: GW-121

WELL DIA (in) 2

DEVELOPED BY C. Mikilins DATE OF INSTALL. 3/22/22

W.L. BEFORE DEVEL. 8.68 / 953 DATE 4/12/22 WL AFTER DEVEL. 30.7 / 1415

STARTED DEVEL. 4/12/22 / 1115 COMPLETED DEVEL. 4/12/22 / 1410

WELL DEPTH: BEFORE DEVEL. 49.37 WELL DEPTH: AFTER DEVEL. 49.38

STANDING WATER COLUMN (FT.) 40.69 STANDING WELL VOLUME 6.63 gal.

SCREEN INTERVAL 39.7 - 49.7 DRILLING WATER LOSS - gal.

DATE/TIME	VOLUME REMOVED (gal)	PUMPING RATE (gpm)	DTW (ft bgs)	FIELD PARAMETERS							REMARKS	
				pH (s.u.)	Sp. Cond. (mS/cm)	TEMP. (°C)	Turbidity (NTU)	Color	RDO (mg/L)	ORP (mV)		
4/12/22 1115												Pump On
1120	1	0.2	13.15	6.56	375.25	18.50	OVER	brown	1.50	-27.3		Surge
1125	2	0.2	15.32	6.47	391.28	18.19	Over	brown	2.29	-36		Surge
1130	4	0.4	20.25	6.51	350.43	17.85	Over	brown	0.31	-30.5		Surge
1135	6	0.4	27.2	6.66	321.67	17.90	over	brown	0.81	-23.0		Surge
1145	10	0.4	37.85	6.62	322.63	17.89	37.2	Clear	1.02	-14.1		Surge move pump up 3ft
1150	12	0.4	39.9	6.56	321.58	17.91	54	Clear	0.97	-17.6		Surge
1155	14	0.4	40	6.46	339.63	18.03	32.7	Clear	0.95	-12.1		Surge move pump up 3ft
1158	15.2		40.4									Well Dry
1222	15.2		19.35				0					Pump ON
1225	16	0.4	22.60				Over	brown				IPAD Overheat
1315	16						AT					Pump ON
1320	19	0.4	27.6	6.33	378.48	18.67	19.7	clear	5.24	15.1		Surge
1325	20	0.4	31.4	6.32	388.26	18.48	15.8	clear	5.24	22.1		Surge
1330	22	0.4	27.3	6.39	375.71	18.64	67.5	brown	5.79	25.4		Surge
1335	24	0.4										Well Dry Pump Off
1355	24	0.4	20.15									Pump ON
1400	26	0.4	26.5	6.33	372.46	19.53	62.6	Clear	4.58	32.9		
1410	30	0.4	34.2	6.31	384.93	18.74	48.7	clear	4.98	30.2		Switch to low flow

pump 2 off bottom

up 3ft

up 3ft

allow Recharge

Pump off

up to top of screen

Off screen

Flow

= TOTAL VOLUME REMOVED (gal.)

DEVELOPMENT METHOD: \_\_\_\_\_

NOTES: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# PURGING AND SAMPLING FORM

Project #: <b>166849621</b>	Project Name/Site Name: <b>Plant McDonough</b>	Page: <u>1</u> of <u>2</u>
Well ID: <b>DGWC-121</b>	Date: <b>4/12/22</b>	Water Level (ft): <b>30.7</b>
Well Diameter (in): <b>2</b>	Well Depth (ft): <b>49.38</b>	Time (WL): <b>1415</b>
Start Purge: <b>1415</b>	End Purge: <b>1550</b>	Water Column (ft): <b>19.68</b>
Evacuation Method: <b>Low-flow</b>	Volume Removed (gal): <b>6.35</b>	Well Volume (gal): <b>3.04</b>
Evacuation Equipment: <b>Geotech Dedicated Pump Reclaimer</b>	Purging Personnel: <b>C. Mitchell</b>	3 Well Volume (gal): <b>9.12</b>
Field probe: <b>Horiba UST Aquatroll</b>	Serial #: <b>883561</b>	Weather: <b>80° Sunny</b>

## Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BGS)
1415									30.7
1420								25.0	30.05
1425								45.5	28.10
1430								33.3	27.70
1435								16.2	26.60
1440								17.2	27.20
1450								14.6	26.80
1455								11.2	26.50
1500								11.18	26.90
1505								10.66	26.4
1510								10.68	26.2
1515								8.70	25.9
1520								7.63	25.4
1525								6.82	23.4
1530								6.53	22.9
1535								5.81	22.85
1540								4.83	22.63
1545								4.97	22.95

Stabilization Criteria (EPA Region 4 Groundwater sampling stabilization criteria, SESDPROC-301-R3, 2013):  
 pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or ± 0.2 mg/L (whichever is greater), Turbidity value should be less than 10 NTU, preferably less than 5 NTU.

**WELL DEVELOPMENT FIELD RECORD**

PROJECT NAME / NUMBER 166849621 Plant McDonough WELL ID: B-122D

WELL DIA (in) 2

DEVELOPED BY C. M. K. Iltis

DATE OF INSTALL. 3/24/22

W.L. BEFORE DEVEL. 26.56 / 4/7/22 1122

WL AFTER DEVEL. 66.05 / 4/7/22 1648

STARTED DEVEL. 4/7/22 / 1124

COMPLETED DEVEL. 4/7/22 / 1648

WELL DEPTH: BEFORE DEVEL. 80.78

WELL DEPTH: AFTER DEVEL. 80.78

STANDING WATER COLUMN (FT.) 54.22

STANDING WELL VOLUME 8.84 gal.

SCREEN INTERVAL 69.8' - 79.8' bgs

DRILLING WATER LOSS — gal.

DATE/TIME	VOLUME REMOVED (gal)	PUMPING RATE (gpm)	DTW (ft bgs)	FIELD PARAMETERS							REMARKS	
				pH (s.u.)	Sp. Cond. (mS/cm)	TEMP. (°C)	Turbidity (NTU)	Color	RDO (mg/L)	ORP (mV)		
1124 4/7/22			26.56									Pump On, pump 1ft off bottom
1127	0.6	0.2 gpm	30.30	6.82	443.36	22.21	56.7	Clear	7.46	-38.8		turn up pump rate/surge
1139	3.6	0.25	41.25	6.43	467.65	19.41	93.5	Clear	5.51	-33.7		
1150	8	0.4	57.05	6.34	421.56	19.20	70.1	Cloudy	6.47	-50.2		turn up pump surge
1200	12	0.4	70.90	6.34	438.02	19.16	90.7	Cloudy	5.25	-42.6		
1207	14.8	0.4	73.40									pump dry
1400			80.89									pump on
1405	16.0	0.4	41.18	6.37	487.09	19.65	51.9	Orange	10.22	1.8		
1415	20.8	0.4	57.47	6.27	445.51	19.41	74.2	Clear	8.91	10.9		Surge, pull pump up 2ft
1425	24.8	0.4	71.3	7.37	377.0	19.25	12.8	Clear	10.75	-157.6		pump dry
1630	—	0.4	29.08	—	—	—	—	—	—	—		pump on / more pump up 3ft
1640	28.8	0.4	53.52	6.11	553.58	19.28	10.56	Clear	5.89	13.6		
1645	30.8	0.4	62.15	6.28	489.78	19.50	19.8	Clear	10.38	1.7		
1648			66.05									pump off, went dry

= TOTAL VOLUME REMOVED (gal.)

DEVELOPMENT METHOD: Reclaimer pump

NOTES:

**PURGING AND SAMPLING FORM**

Project #: 166849621	Project Name/Site Name: Plant McDonough		Page: <u>1</u> of <u>2</u>
Well ID: B-1220	Date: 4/8/22	Water Level (ft): 27.92	Time (WL): 930
Well Diameter (in): 2	Well Depth (ft): 80.78	Water Column (ft): 52.86	Well Volume (gal): 8.62
Start Purge: 1010	End Purge: 1300	Top of Pump (ft): 74' bgs	3 Well Volume (gal): 25.8
Evacuation Method: Low-flow		Volume Removed (gal): 6.45	
Evacuation Equipment: Geotech Dedicated Pump Reclaimer		Purging Personnel: C. M. Kil'fus	
Field probe: Horiba U-55 Aquatroll	Serial #: 883561	Weather: 60° Sunny	

**Purge Data/Field Parameters**

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BGS)
1010								2	<del>29.3</del> 27.92
1015			6.07					29.3	<del>33.03</del> 28.3
1024			6.08					10.20	<del>32.72</del> 32.05
1027			6.07					13.49	<del>32.92</del> 32.72
1030			6.07					9.60	32.98
1037			6.07					11.36	32.92
1042			6.07					9.61	32.38
1047			6.07					9.31	32.10
1052			6.07					10.23	31.66
1057								9.96	31.58
1102								13.98	32.15
1107								11.98	32.39
1112								14.10	32.65
1117								14.10	32.63
1122								19.5	32.74
1127								17.8	32.80
1132								17.3	32.95
1137								16.8	32.90

Stabilization Criteria (EPA Region 4 Groundwater sampling stabilization criteria, SESDPROC-301-R3, 2013):  
 pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or ± 0.2 mg/L (whichever is greater), Turbidity value should be less than 10 NTU, preferably less than 5 NTU.

**WELL DEVELOPMENT FIELD RECORD**

PROJECT NAME / NUMBER: 166849621 Plant McDonough WELL ID: B-1230 B-1230

WELL DIA (in): 2

DEVELOPED BY: C. Miklins DATE OF INSTALL: 4/4/22

W.L. BEFORE DEVEL: 11.76 4/9/22 1320 WL AFTER DEVEL: 62.5 1500 4/11/22

STARTED DEVEL: 4/9/22 1350 COMPLETED DEVEL: 4/11/22 1500

WELL DEPTH: BEFORE DEVEL: 162.86 B50C WELL DEPTH: AFTER DEVEL: 162.86

STANDING WATER COLUMN (FT.): 151.1 STANDING WELL VOLUME: 24.63 gal.

SCREEN INTERVAL: 110 - 160 DRILLING WATER LOSS: - gal.

DATE/TIME	VOLUME REMOVED (gal)	PUMPING RATE (gpm)	DTW (ft bgs)	FIELD PARAMETERS							REMARKS	
				pH (s.u.)	Sp. Cond. (mS/cm)	TEMP. (°C)	Turbidity (NTU)	Color	RDO (mg/L)	ORP (mV)		
4/8/22												
1350	—	0.4	11.76	—	—	—	—	—	—	—	—	Pump on 2ft from bottom
1405	6	0.4	29.92	7.90	360.45	16.92	62.3	cloudy	4.54	-4.7	Surge	
1415	10	0.4	50.1	7.89	364.40	18.72	40	cloudy	4.67	-4.7	Surge	1ft surge
1430	16	0.4	71.4	7.61	409.54	18.51	13.43	cloudy	4.44	-6.6	Surge	
1445	22	0.4	92.7	7.40	445.21	18.71	59.9	cloudy	3.65	-6.3	Surge	imp. move pump up 5ft
1500	28	0.4	114.0	7.23	508.54	18.71	21.7	clear	3.20	-44.2	Surge	
1515	34	0.4	135.3	7.09	623.78	18.49	6.2	clear	3.57	-20.1	Surge	move pump up 5ft
1530	40	0.4	156.6	7.03	782.04	18.31	47.2	clear	5.05	-60.5	Surge	
1545	46	0.4	177.9	6.97	879.26	18.19	58	clear	6.71	-61.9	Surge	move pump up 5ft
1600	52	0.4	199.2	7.00	702.92	19.08	41.7	clear	6.28	-59.6	Surge	
1615	58	0.4	220.5	7.07	692.55	18.09	71	cloudy	5.96	-58.6	Surge	move pump up 5ft
1620	60	0.4										pump off
4/11/22 1030	60	0.4	10.98	—	—	—	—	—	—	—	—	Pump ON raised 30' off bottom
1055	62	0.4	22.25	6.76	659.49	18.94	70	cloudy	4.48	-2.1	Surge	
1100	72	0.4	33.52	6.51	722.74	19.91	77.3	cloudy	3.90	-19.1	Surge	
1115	76	0.4	44.79	6.56	775.63	20.16	19.6	clear	3.70	-20.2	Surge	move pump up 5'
1130	82	0.4	56.06	6.51	844.78	20.32	13.0	clear	2.85	-31.0	Surge	
1145	88	0.4	67.33	6.54	941.74	20.63	11.8	clear	2.85	-33.2	Surge	
1200	94	0.4	78.60	6.62	903.67	20.31	11.32	clear	4.23	-34.7	Surge	
1215	100 gal	0.4	89.87	6.70	901.00	20.70	8.15	clear	5.52	-35.3	Surge	move pump up 5'
1230	106	0.4	101.14	6.77	862.20	20.88	18.5	clear	6.04	-38.8	Surge	
1245	112	0.4	112.41	6.90	895.49	20.58	9.86	clear	8.79	-36.5	Surge	move pump up 5'
1300	118	0.4	123.68	6.73	828.77	20.35	8.28	clear	6.98	-31.1	Surge	
1315	124	0.4	134.95	6.72	842.05	20.36	59.5	cloudy	7.46	-28.8	Surge	move pump up 5'
1325	126	0.4	146.22									well dry pump off
1445	126	0.4	60.02									
1500	132	0.4	71.29	6.86	852.66	20.30	13.8	clear	8.67	-20.1	Surge	switch to low flow lower pump to 25' from bottom

= TOTAL VOLUME REMOVED (gal.)

DEVELOPMENT METHOD: \_\_\_\_\_

NOTES: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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# PURGING AND SAMPLING FORM

Project #: 166849621	Project Name/Site Name: <i>Plant McDonough</i>		Page: <u>1</u> of <u>2</u>
Well ID: 8-1230	Date: 4/11/22	Water Level (ft): 68.5	Time (WL): 1500
Well Diameter (in): 2	Well Depth (ft): 162.86	Water Column (ft): 94.36	Well Volume (gal): 15.38
Start Purge: 1500	End Purge: 1620	Top of Pump (ft): 133	3 Well Volume (gal): 46.14
Evacuation Method: Low-flow		Volume Removed (gal): 6.35	
Evacuation Equipment: <del>Geotech Dedicated</del> Pump <i>Reclaimer</i>		Purging Personnel: <i>C. Mikilins</i>	
Field probe: <del>Hydro Probe</del> <i>Aquatrak</i>	Serial #: 883561	Weather: 50° <i>Cloudy</i>	

## Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BGS)
1500								—	68.5
1505								—	—
1510								12.29	73.4
1515								11.7	73.2
1520								9.47	72.38
1525								9.38	71.51
1530								9.73	71.24
1535								11.36	70.68
1540								9.92	70.05
1545								9.04	69.28
1550								7.20	68.90
1555								6.57	68.35
1600								6.19	68.05
1605								5.76	67.70
1610								4.75	67.34
1615								4.94	67.20
1620								4.56	67.01

Stabilization Criteria (EPA Region 4 Groundwater sampling stabilization criteria, SESDPROC-301-R3, 2013):  
 pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or ± 0.2 mg/L (whichever is greater), Turbidity value should be less than 10 NTU, preferably less than 5 NTU.

# Low-Flow Test Report:

Test Date / Time: 4/12/2022 2:17:01 PM

Project: 166849621 Plant McDonough Low-Flow Test

DGWC-121

Operator Name: C Mikilitus

<b>Location Name: Device Location</b> <b>Initial Depth to Water: 30.7 ft</b>	<b>Estimated Total Volume Pumped:</b> <b>36106.668 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 400 ml/min</b> <b>Final Draw Down: 0 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883561</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
4/12/2022 2:17 PM	00:00	6.29 pH	20.65 °C	381.40 µS/cm	4.49 mg/L		30.2 mV	30.70 ft	400.00 ml/min
4/12/2022 2:22 PM	05:00	6.35 pH	19.81 °C	379.38 µS/cm	1.07 mg/L	25.00 NTU	3.5 mV	30.05 ft	400.00 ml/min
4/12/2022 2:27 PM	10:00	6.34 pH	19.59 °C	378.36 µS/cm	1.09 mg/L	45.50 NTU	3.4 mV	28.10 ft	400.00 ml/min
4/12/2022 2:32 PM	15:00	6.29 pH	19.52 °C	382.18 µS/cm	2.87 mg/L	33.30 NTU	13.5 mV	27.70 ft	400.00 ml/min
4/12/2022 2:37 PM	20:00	6.28 pH	19.43 °C	379.06 µS/cm	3.30 mg/L	16.20 NTU	20.4 mV	26.60 ft	400.00 ml/min
4/12/2022 2:42 PM	25:00	6.28 pH	19.25 °C	378.48 µS/cm	3.49 mg/L	17.20 NTU	21.9 mV	27.20 ft	400.00 ml/min
4/12/2022 2:53 PM	36:37	6.27 pH	19.10 °C	377.76 µS/cm	3.85 mg/L	14.60 NTU	30.0 mV	26.80 ft	400.00 ml/min
4/12/2022 2:58 PM	41:37	6.26 pH	19.30 °C	379.27 µS/cm	3.91 mg/L	11.20 NTU	26.9 mV	26.50 ft	400.00 ml/min
4/12/2022 3:03 PM	46:37	6.27 pH	19.28 °C	380.49 µS/cm	3.80 mg/L	11.18 NTU	32.7 mV	26.90 ft	400.00 ml/min
4/12/2022 3:07 PM	50:16	6.26 pH	19.57 °C	379.20 µS/cm	3.73 mg/L	10.66 NTU	29.4 mV	26.40 ft	400.00 ml/min
4/12/2022 3:12 PM	55:16	6.26 pH	19.60 °C	379.92 µS/cm	3.72 mg/L	10.68 NTU	26.8 mV	26.20 ft	400.00 ml/min
4/12/2022 3:17 PM	01:00:16	6.26 pH	20.15 °C	380.39 µS/cm	3.68 mg/L	7.63 NTU	27.4 mV	25.90 ft	400.00 ml/min
4/12/2022 3:22 PM	01:05:16	6.26 pH	19.41 °C	379.46 µS/cm	3.33 mg/L	6.82 NTU	26.5 mV	25.40 ft	400.00 ml/min
4/12/2022 3:27 PM	01:10:16	6.26 pH	19.62 °C	380.55 µS/cm	3.47 mg/L	6.53 NTU	26.8 mV	23.40 ft	400.00 ml/min
4/12/2022 3:32 PM	01:15:16	6.26 pH	19.50 °C	381.13 µS/cm	2.75 mg/L	5.81 NTU	29.2 mV	22.90 ft	400.00 ml/min
4/12/2022 3:37 PM	01:20:16	6.26 pH	19.28 °C	380.88 µS/cm	2.82 mg/L	4.83 NTU	24.3 mV	22.85 ft	400.00 ml/min
4/12/2022 3:42 PM	01:25:16	6.26 pH	19.28 °C	380.38 µS/cm	3.17 mg/L	4.97 NTU	24.8 mV	22.63 ft	400.00 ml/min



4/12/2022 3:47 PM	01:30:16	6.26 pH	19.20 °C	378.85 µS/cm	3.37 mg/L	4.69 NTU	33.0 mV	<u>22.95</u> ft	400.00 ml/min
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## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 4/8/2022 10:18:10 AM

Project: Plant McDonough 166849621

Low Flow B-122D

Operator Name: C. Mikilitus

<b>Location Name: Device Location</b> <b>Initial Depth to Water: 27.92 ft</b>	<b>Estimated Total Volume Pumped:</b> <b>24430 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 150 ml/min</b> <b>Final Draw Down: 0 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883561</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
4/8/2022 10:18 AM	00:00	6.08 pH	18.66 °C	568.22 µS/cm	4.74 mg/L	-	27.8 mV	27.92 ft	150.00 ml/min
4/8/2022 10:19 AM	00:50	6.04 pH	18.66 °C	634.17 µS/cm	4.11 mg/L	-	29.5 mV	-	150.00 ml/min
4/8/2022 10:22 AM	03:50	6.07 pH	18.70 °C	582.31 µS/cm	3.59 mg/L	29.30 NTU	30.5 mV	28.30 ft	150.00 ml/min
4/8/2022 10:25 AM	06:50	6.08 pH	18.51 °C	553.89 µS/cm	3.88 mg/L	10.20 NTU	32.9 mV	33.05 ft	150.00 ml/min
4/8/2022 10:28 AM	09:50	6.07 pH	18.50 °C	551.09 µS/cm	3.77 mg/L	13.49 NTU	33.3 mV	32.72 ft	150.00 ml/min
4/8/2022 10:31 AM	12:50	6.07 pH	18.21 °C	546.95 µS/cm	3.89 mg/L	9.60 NTU	37.0 mV	32.98 ft	150.00 ml/min
4/8/2022 10:32 AM	14:08	6.07 pH	18.15 °C	546.30 µS/cm	3.88 mg/L	-	43.1 mV	-	150.00 ml/min
4/8/2022 10:37 AM	19:08	6.07 pH	18.26 °C	544.06 µS/cm	3.77 mg/L	11.36 NTU	38.6 mV	32.92 ft	150.00 ml/min
4/8/2022 10:42 AM	24:08	6.07 pH	18.43 °C	542.80 µS/cm	3.60 mg/L	9.61 NTU	38.9 mV	32.38 ft	150.00 ml/min
4/8/2022 10:47 AM	29:08	6.07 pH	18.21 °C	538.75 µS/cm	3.67 mg/L	9.31 NTU	39.1 mV	32.10 ft	150.00 ml/min
4/8/2022 10:52 AM	34:08	6.07 pH	18.25 °C	540.21 µS/cm	3.64 mg/L	10.23 NTU	39.0 mV	31.66 ft	150.00 ml/min
4/8/2022 10:57 AM	39:08	6.08 pH	18.30 °C	537.01 µS/cm	3.56 mg/L	9.96 NTU	41.5 mV	31.58 ft	150.00 ml/min
4/8/2022 11:02 AM	44:08	6.08 pH	18.76 °C	547.83 µS/cm	3.43 mg/L	13.98 NTU	40.6 mV	32.15 ft	150.00 ml/min
4/8/2022 11:07 AM	49:08	6.08 pH	18.92 °C	543.69 µS/cm	3.17 mg/L	11.98 NTU	48.0 mV	32.39 ft	150.00 ml/min
4/8/2022 11:12 AM	54:08	6.08 pH	19.20 °C	546.28 µS/cm	2.93 mg/L	14.10 NTU	38.8 mV	32.65 ft	150.00 ml/min
4/8/2022 11:17 AM	59:08	6.09 pH	19.23 °C	534.00 µS/cm	2.93 mg/L	14.10 NTU	38.6 mV	32.63 ft	150.00 ml/min
4/8/2022 11:22 AM	01:04:08	6.09 pH	19.72 °C	537.75 µS/cm	2.96 mg/L	19.50 NTU	38.7 mV	32.74 ft	150.00 ml/min

4/8/2022 11:27 AM	01:09:08	6.08 pH	20.08 °C	536.91 µS/cm	2.87 mg/L	17.80 NTU	36.8 mV	32.80 ft	150.00 ml/min
4/8/2022 11:32 AM	01:14:08	6.09 pH	19.41 °C	532.00 µS/cm	2.93 mg/L	17.30 NTU	37.2 mV	32.95 ft	150.00 ml/min
4/8/2022 11:37 AM	01:19:08	6.09 pH	19.35 °C	535.91 µS/cm	2.85 mg/L	16.80 NTU	37.8 mV	32.90 ft	150.00 ml/min
4/8/2022 11:42 AM	01:24:08	6.09 pH	18.81 °C	552.59 µS/cm	3.01 mg/L	15.70 NTU	36.1 mV	33.16 ft	150.00 ml/min
4/8/2022 11:47 AM	01:29:08	6.09 pH	18.52 °C	567.32 µS/cm	2.88 mg/L	15.00 NTU	35.2 mV	33.14 ft	150.00 ml/min
4/8/2022 11:52 AM	01:34:08	6.09 pH	18.34 °C	561.71 µS/cm	2.83 mg/L	12.70 NTU	35.2 mV	33.08 ft	150.00 ml/min
4/8/2022 11:57 AM	01:39:08	6.09 pH	18.13 °C	568.71 µS/cm	2.76 mg/L	11.70 NTU	35.0 mV	33.05 ft	150.00 ml/min
4/8/2022 12:02 PM	01:44:08	6.09 pH	18.17 °C	575.76 µS/cm	2.80 mg/L	13.38 NTU	41.4 mV	33.38 ft	150.00 ml/min
4/8/2022 12:07 PM	01:49:08	6.08 pH	18.08 °C	576.49 µS/cm	2.73 mg/L	-	34.9 mV	-	150.00 ml/min
4/8/2022 12:12 PM	01:54:08	6.08 pH	18.10 °C	578.29 µS/cm	2.67 mg/L	11.18 NTU	35.2 mV	33.45 ft	150.00 ml/min
4/8/2022 12:17 PM	01:59:08	6.08 pH	18.04 °C	576.66 µS/cm	2.63 mg/L	-	36.4 mV	-	150.00 ml/min
4/8/2022 12:22 PM	02:04:08	6.08 pH	18.13 °C	578.33 µS/cm	2.57 mg/L	8.77 NTU	42.9 mV	33.60 ft	150.00 ml/min
4/8/2022 12:27 PM	02:09:08	6.07 pH	18.63 °C	581.19 µS/cm	2.48 mg/L	-	37.6 mV	-	150.00 ml/min
4/8/2022 12:32 PM	02:14:08	6.08 pH	18.29 °C	576.59 µS/cm	2.45 mg/L	5.95 NTU	36.5 mV	33.78 ft	150.00 ml/min
4/8/2022 12:37 PM	02:19:08	6.08 pH	18.21 °C	576.36 µS/cm	2.38 mg/L	-	35.7 mV	-	150.00 ml/min
4/8/2022 12:42 PM	02:24:08	6.07 pH	18.34 °C	580.25 µS/cm	2.34 mg/L	4.98 NTU	36.2 mV	33.79 ft	150.00 ml/min
4/8/2022 12:47 PM	02:29:08	6.07 pH	18.64 °C	581.30 µS/cm	2.23 mg/L	-	35.6 mV	-	150.00 ml/min
4/8/2022 12:52 PM	02:34:08	6.07 pH	18.99 °C	573.12 µS/cm	2.26 mg/L	4.49 NTU	36.4 mV	33.85 ft	150.00 ml/min
4/8/2022 12:57 PM	02:39:08	6.08 pH	18.50 °C	570.33 µS/cm	2.21 mg/L	-	36.6 mV	-	150.00 ml/min
4/8/2022 1:01 PM	02:42:52	6.07 pH	18.10 °C	573.78 µS/cm	2.16 mg/L	4.32 NTU	35.7 mV	33.89 ft	150.00 ml/min

## Samples

Sample ID:	Description:
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# Low-Flow Test Report:

Test Date / Time: 4/11/2022 3:02:26 PM

Project: 166849621 Plant McDonough Low-Flow Test B-123D

Operator Name: C Mikilitus

<b>Location Name: Device Location</b> <b>Initial Depth to Water: 68.5 ft</b>	<b>Estimated Total Volume Pumped:</b> <b>24025 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 300 ml/min</b> <b>Final Draw Down: 67.01 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883561</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
4/11/2022 3:02 PM	00:00	6.80 pH	20.55 °C	861.26 µS/cm	8.62 mg/L	-	-59.5 mV	68.50 ft	300.00 ml/min
4/11/2022 3:07 PM	05:00	7.43 pH	20.97 °C	10.09 µS/cm	9.45 mg/L	-	-45.2 mV	-	300.00 ml/min
4/11/2022 3:12 PM	10:05	7.05 pH	20.33 °C	728.75 µS/cm	11.55 mg/L	12.29 NTU	-72.3 mV	73.40 ft	300.00 ml/min
4/11/2022 3:17 PM	15:05	6.90 pH	20.39 °C	662.65 µS/cm	5.59 mg/L	11.70 NTU	-37.6 mV	73.20 ft	300.00 ml/min
4/11/2022 3:22 PM	20:05	6.86 pH	20.23 °C	667.55 µS/cm	4.99 mg/L	9.47 NTU	-43.4 mV	72.38 ft	300.00 ml/min
4/11/2022 3:27 PM	25:05	6.84 pH	20.15 °C	677.24 µS/cm	4.84 mg/L	9.38 NTU	-35.8 mV	71.51 ft	300.00 ml/min
4/11/2022 3:32 PM	30:05	6.82 pH	20.13 °C	692.92 µS/cm	4.85 mg/L	9.73 NTU	-37.3 mV	71.24 ft	300.00 ml/min
4/11/2022 3:37 PM	35:05	6.80 pH	20.22 °C	711.58 µS/cm	5.07 mg/L	11.36 NTU	-41.9 mV	70.68 ft	300.00 ml/min
4/11/2022 3:42 PM	40:05	6.79 pH	20.20 °C	725.06 µS/cm	5.31 mg/L	9.92 NTU	-42.8 mV	70.05 ft	300.00 ml/min
4/11/2022 3:47 PM	45:05	6.78 pH	20.04 °C	738.35 µS/cm	5.49 mg/L	9.04 NTU	-50.6 mV	69.28 ft	300.00 ml/min
4/11/2022 3:52 PM	50:05	6.75 pH	20.07 °C	756.55 µS/cm	5.77 mg/L	7.20 NTU	-43.7 mV	68.90 ft	300.00 ml/min
4/11/2022 3:57 PM	55:05	6.74 pH	20.13 °C	763.88 µS/cm	5.92 mg/L	6.57 NTU	-42.2 mV	68.35 ft	300.00 ml/min
4/11/2022 4:02 PM	01:00:05	6.71 pH	20.26 °C	775.89 µS/cm	6.10 mg/L	6.19 NTU	-41.1 mV	68.05 ft	300.00 ml/min
4/11/2022 4:07 PM	01:05:05	6.69 pH	20.40 °C	783.65 µS/cm	6.28 mg/L	5.76 NTU	-39.3 mV	67.70 ft	300.00 ml/min
4/11/2022 4:12 PM	01:10:05	6.68 pH	20.65 °C	782.18 µS/cm	6.30 mg/L	4.75 NTU	-38.0 mV	67.34 ft	300.00 ml/min
4/11/2022 4:17 PM	01:15:05	6.66 pH	20.65 °C	788.42 µS/cm	6.41 mg/L	4.94 NTU	-36.1 mV	67.20 ft	300.00 ml/min
4/11/2022 4:22 PM	01:20:05	6.64 pH	20.79 °C	794.65 µS/cm	6.50 mg/L	4.56 NTU	-33.7 mV	67.01 ft	300.00 ml/min

**Samples**

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

## Daily Calibration Log

Project  
Field Staff

166849621 Plant McDonough  
C. Mikulitus

### Instrument Calibration

			Date	4/7/22	4/8/22	4/11/22	4/12/22
			Time	1020	905	910	1000
Parameter	Units	Standard	SmarTROLL SN 883561 iPad # _____	SmarTROLL SN 883561 iPad # _____	SmarTROLL SN 883561 iPad # _____	SmarTROLL SN 883561 iPad # _____	
DO	% saturation	100	91.6%	100.3%	100.7%	100.2%	
Conductivity	us/cm	4490	4334.9	4336.73	4319.31	4464.81	
pH	S.U.	4.00	4.00	3.98	3.96	3.96	
pH	S.U.	7.00	7.02	7.01	6.98	6.99	
pH	S.U.	10.00	10.02	9.98	10.03	10.02	
ORP	mV	228.00	227.6	222.1	226.1	220.8	

Turbidity	Units	Standard	LaMotte SN 7007-1416	LaMotte SN 7007-1416	LaMotte SN 7007-1416	LaMotte SN 7007-1416
	NTU	0.0	0.02	0.27	0.05	0.04
	NTU	1.0	0.95	1.09	0.88	0.60
	NTU	10.0	10.66	10.98	10.25	10.29

			Date			
			Time			
Parameter	Units	Standard	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____
DO	% saturation	100				
Conductivity	us/cm	4490				
pH	S.U.	4.00				
pH	S.U.	7.00				
pH	S.U.	10.00				
ORP	mV	228.00				

Turbidity	Units	Standard	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0				
	NTU	1.0				
	NTU	10.0				

Notes: DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

# Calibration Report

Instrument	Aqua TROLL 400
Serial Number	883561
Created	4/7/2022

Sensor	<b>RDO</b>
Serial Number	878558
Last Calibrated	4/7/2022

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## *Calibration Details*

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Slope	0.9164088
Offset	0.00 mg/L

## *Calibration point 100%*

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Concentration	9.33 mg/L
Temperature	21.55 °C
Barometric Pressure	982.80 mbar

Sensor	<b>Conductivity</b>
Serial Number	883561
Last Calibrated	4/7/2022

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## *Calibration Details*

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Cell Constant	1.01
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	<b>Level</b>
Serial Number	883845
Last Calibrated	3/1/2022

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## *Calibration Details*

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Zero Offset	-0.10 psi
Reference Depth	0.00 ft
Reference Offset	0.00 psi

Sensor	pH/ORP
Serial Number	21636
Last Calibrated	4/7/2022

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*Calibration Details*

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Total Calibration Points	3
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*Calibration Point 1*

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pH of Buffer	4.00 pH
pH mV	170.9 mV
Temperature	21.91 °C

*Calibration Point 2*

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pH of Buffer	7.02 pH
pH mV	-1.2 mV
Temperature	20.69 °C

*Calibration Point 3*

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pH of Buffer	10.04 pH
pH mV	-172.1 mV
Temperature	20.39 °C

*Slope and Offset 1*

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Slope	-56.99 mV/pH
Offset	-0.1 mV

*Slope and Offset 2*

---

Slope	-56.59 mV/pH
Offset	-0.1 mV

*ORP*

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ORP Solution	ORP Standard
Offset	-0.4 mV
Temperature	20.90 °C



# Calibration Report

Instrument	Aqua TROLL 400
Serial Number	883561
Created	4/8/2022

Sensor	<b>RDO</b>
Serial Number	878558
Last Calibrated	4/8/2022

## *Calibration Details*

Slope	1.003327
Offset	0.00 mg/L

## *Calibration point 100%*

Concentration	9.13 mg/L
Temperature	18.16 °C
Barometric Pressure	984.44 mbar

Sensor	<b>Conductivity</b>
Serial Number	883561
Last Calibrated	4/8/2022

## *Calibration Details*

Cell Constant	0.977
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	<b>Level</b>
Serial Number	883845
Last Calibrated	3/1/2022

## *Calibration Details*

Zero Offset	-0.10 psi
Reference Depth	0.00 ft
Reference Offset	0.00 psi

**Sensor**                      **pH/ORP**

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Serial Number	21636
Last Calibrated	4/8/2022

*Calibration Details*

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Total Calibration Points	3
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*Calibration Point 1*

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pH of Buffer	4.00 pH
pH mV	170.6 mV
Temperature	18.52 °C

*Calibration Point 2*

---

pH of Buffer	7.02 pH
pH mV	-0.5 mV
Temperature	19.32 °C

*Calibration Point 3*

---

pH of Buffer	10.04 pH
pH mV	-168.8 mV
Temperature	19.44 °C

*Slope and Offset 1*

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Slope	-56.65 mV/pH
Offset	0.6 mV

*Slope and Offset 2*

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Slope	-55.74 mV/pH
Offset	0.6 mV

*ORP*

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ORP Solution	ORP Standard
Offset	-5.9 mV
Temperature	18.63 °C

# Calibration Report

Instrument	Aqua TROLL 400
Serial Number	883561
Created	4/11/2022

Sensor	<b>RDO</b>
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Serial Number	878558
Last Calibrated	4/11/2022

## *Calibration Details*

---

Slope	1.007237
Offset	0.00 mg/L

## *Calibration point 100%*

---

Concentration	9.15 mg/L
Temperature	18.40 °C
Barometric Pressure	994.98 mbar

Sensor	<b>Conductivity</b>
--------	---------------------

---

Serial Number	883561
Last Calibrated	4/11/2022

## *Calibration Details*

---

Cell Constant	0.961
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	<b>Level</b>
--------	--------------

---

Serial Number	883845
Last Calibrated	3/1/2022

## *Calibration Details*

---

Zero Offset	-0.10 psi
Reference Depth	0.00 ft
Reference Offset	0.00 psi

Sensor	pH/ORP
Serial Number	21636
Last Calibrated	4/11/2022

---

*Calibration Details*

---

Total Calibration Points	3
--------------------------	---

*Calibration Point 1*

---

pH of Buffer	4.00 pH
pH mV	169.4 mV
Temperature	18.45 °C

*Calibration Point 2*

---

pH of Buffer	7.02 pH
pH mV	1.2 mV
Temperature	19.13 °C

*Calibration Point 3*

---

pH of Buffer	10.04 pH
pH mV	-168.7 mV
Temperature	19.55 °C

*Slope and Offset 1*

---

Slope	-55.68 mV/pH
Offset	2.3 mV

*Slope and Offset 2*

---

Slope	-56.27 mV/pH
Offset	2.3 mV

*ORP*

---

ORP Solution	ORP Standard
Offset	-6.3 mV
Temperature	18.94 °C

# Calibration Report

Instrument	Aqua TROLL 400
Serial Number	883561
Created	4/12/2022

Sensor	<b>RDO</b>
--------	------------

---

Serial Number	878558
Last Calibrated	4/12/2022

## *Calibration Details*

---

Slope	1.002736
Offset	0.00 mg/L

## *Calibration point 100%*

---

Concentration	8.37 mg/L
Temperature	23.20 °C
Barometric Pressure	996.14 mbar

Sensor	<b>Conductivity</b>
--------	---------------------

---

Serial Number	883561
Last Calibrated	4/12/2022

## *Calibration Details*

---

Cell Constant	0.992
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	<b>Level</b>
--------	--------------

---

Serial Number	883845
Last Calibrated	3/1/2022

## *Calibration Details*

---

Zero Offset	-0.10 psi
Reference Depth	0.00 ft
Reference Offset	0.00 psi

Sensor	pH/ORP
Serial Number	21636
Last Calibrated	4/12/2022

---

*Calibration Details*

---

Total Calibration Points	3
--------------------------	---

*Calibration Point 1*

---

pH of Buffer	4.00 pH
pH mV	168.4 mV
Temperature	18.41 °C

*Calibration Point 2*

---

pH of Buffer	7.02 pH
pH mV	0.8 mV
Temperature	18.88 °C

*Calibration Point 3*

---

pH of Buffer	10.04 pH
pH mV	-167.7 mV
Temperature	19.17 °C

*Slope and Offset 1*

---

Slope	-55.48 mV/pH
Offset	1.9 mV

*Slope and Offset 2*

---

Slope	-55.79 mV/pH
Offset	1.9 mV

*ORP*

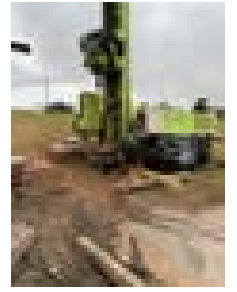
---

ORP Solution	ORP Standard
Offset	-7.2 mV
Temperature	19.27 °C

**APPENDIX C**

**Geophysical Record of Borehole  
B-123D**

**Project Title:** Plant McDonough Ground Water Program  
**Project Number:** GL166849621  
**Client:** Georgia Power  
**Date:** March 30, 2022



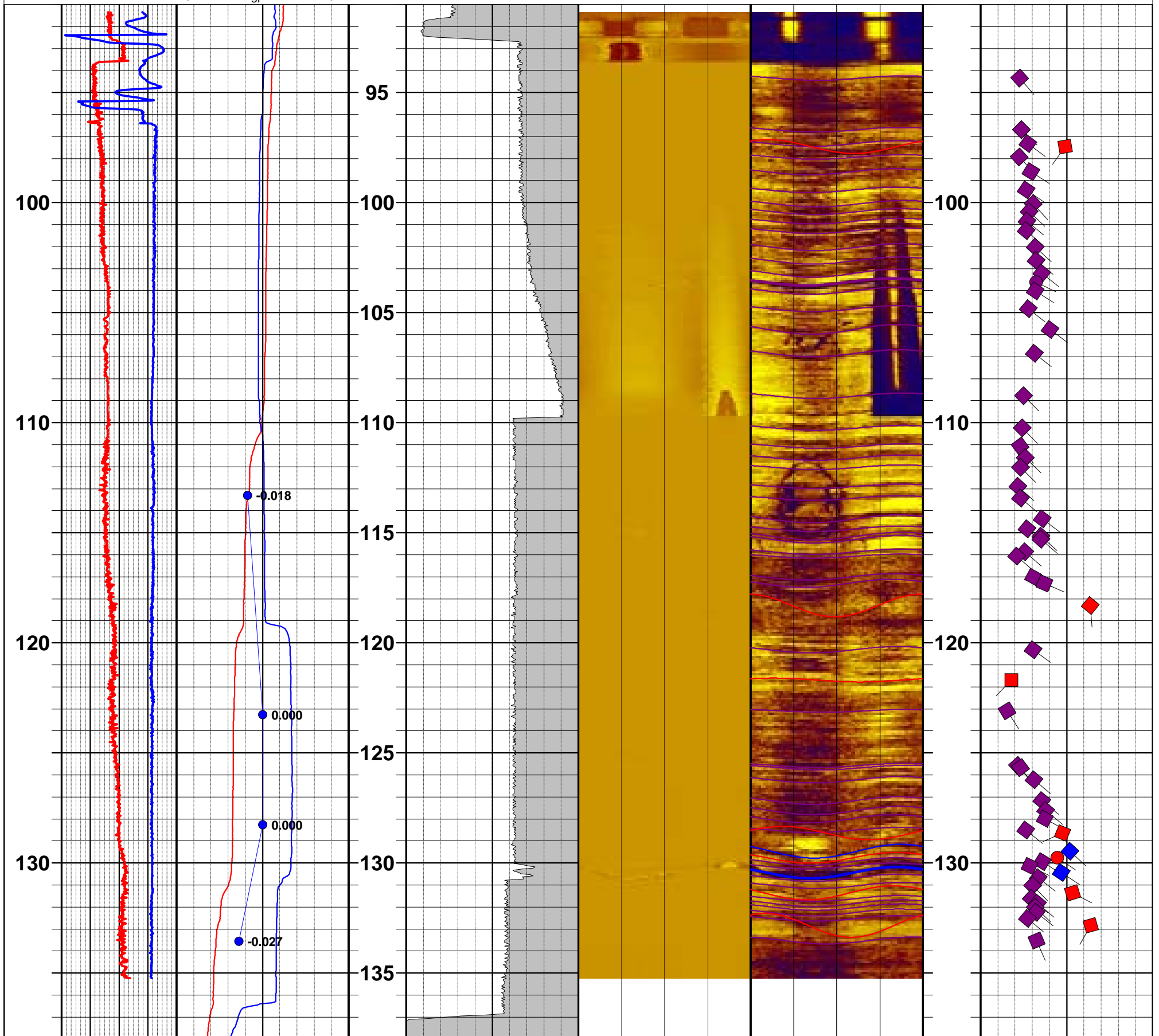
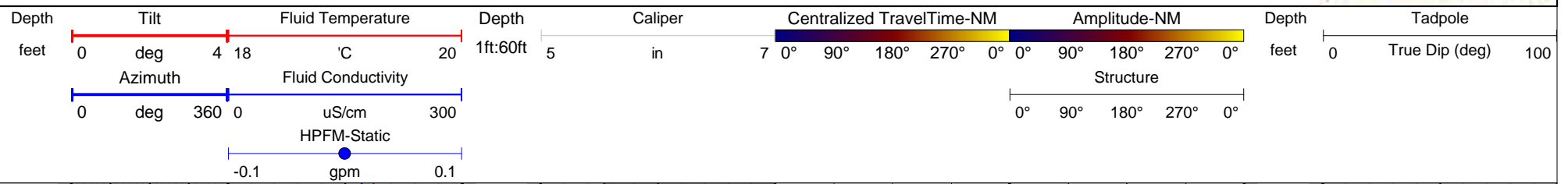
**Preliminary Logs**

<b>Driller:</b> Cascade	<b>Casing Dia.:</b> 5.4 in	<b>Log Depth Ref.:</b> Logs zeroed @ gs	<b>Location:</b> Plant McDonough
<b>Drilled Depth:</b> 140 ft bgs	<b>Casing Material:</b> Steel	<b>Water Level:</b> 22.49 ft bgs @ 7:47am	
<b>Drill Date:</b> March 29, 2022	<b>Casing Depth:</b> 92.5 ft bgs	<b>Borehole Incl.:</b> vertical	<b>Log Date:</b> March 30, 2022
<b>Drill Method.:</b> 6" sonic	<b>Casing Stick-up:</b> 1.75 ft ags	<b>Borehole Az.:</b> na	<b>Logged By:</b> Chris Bryant

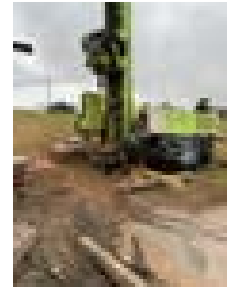
**Notes:** B-123 was drilled from 110 to 140 ft after completion of the geophysical logging on 3-29-2022. All tools were zeroed with the probe top at the TOC and corrected to ground surface in processing. The accuracy of the orientation sensor (APS544) used in the QL40ABI-2G (ABI) acoustic televiewer is +/- 1.2 degrees for Azimuth and +/- 0.5 degrees for Tilt. The ABI images are oriented to magnetic north. Water level at the start of the static HPFM run was 23.21 ft bgs at 9:38 am, a drop of ~0.72 ft in ~2 hours, a falling head condition during the test.

**Structure Legend:**

- ◆ Foliation
- Open Foliation
- Open Fracture / Joint
- Filled Fracture / Joint
- ◆ Producing Fracture / Joint







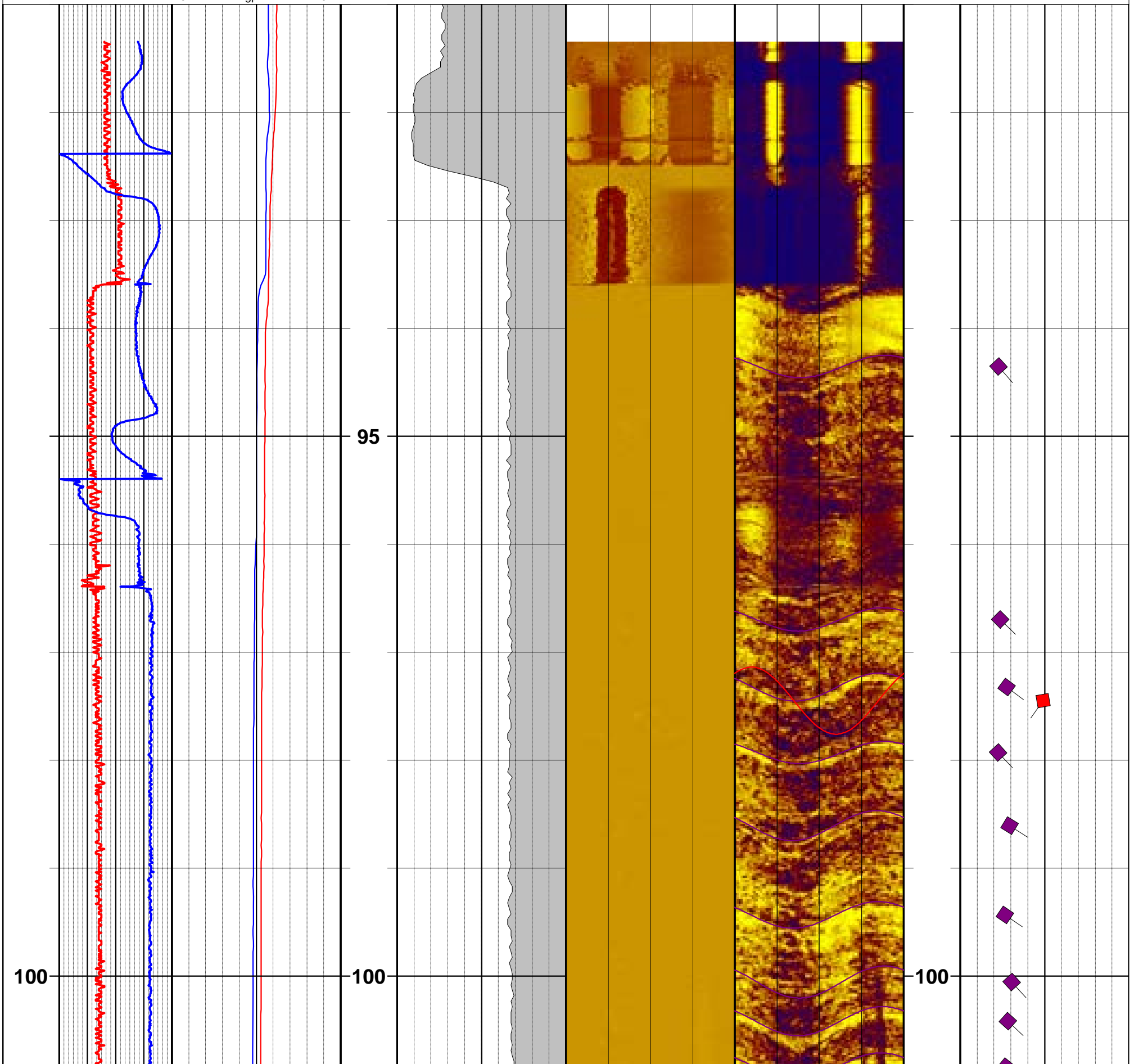
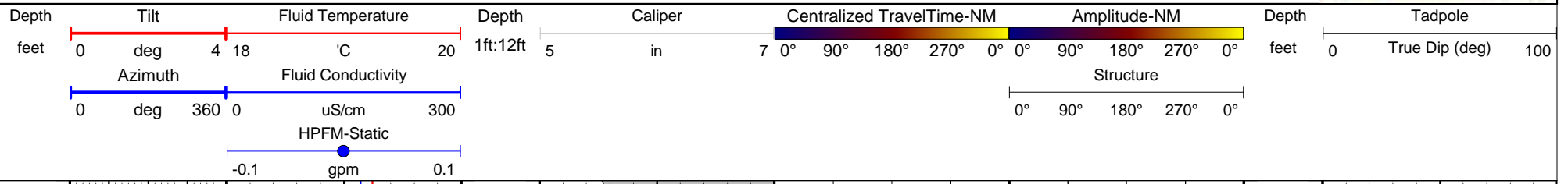
**Project Title:** Plant McDonough Ground Water Program  
**Project Number:** GL166849621  
**Client:** Georgia Power  
**Date:** March 30, 2022

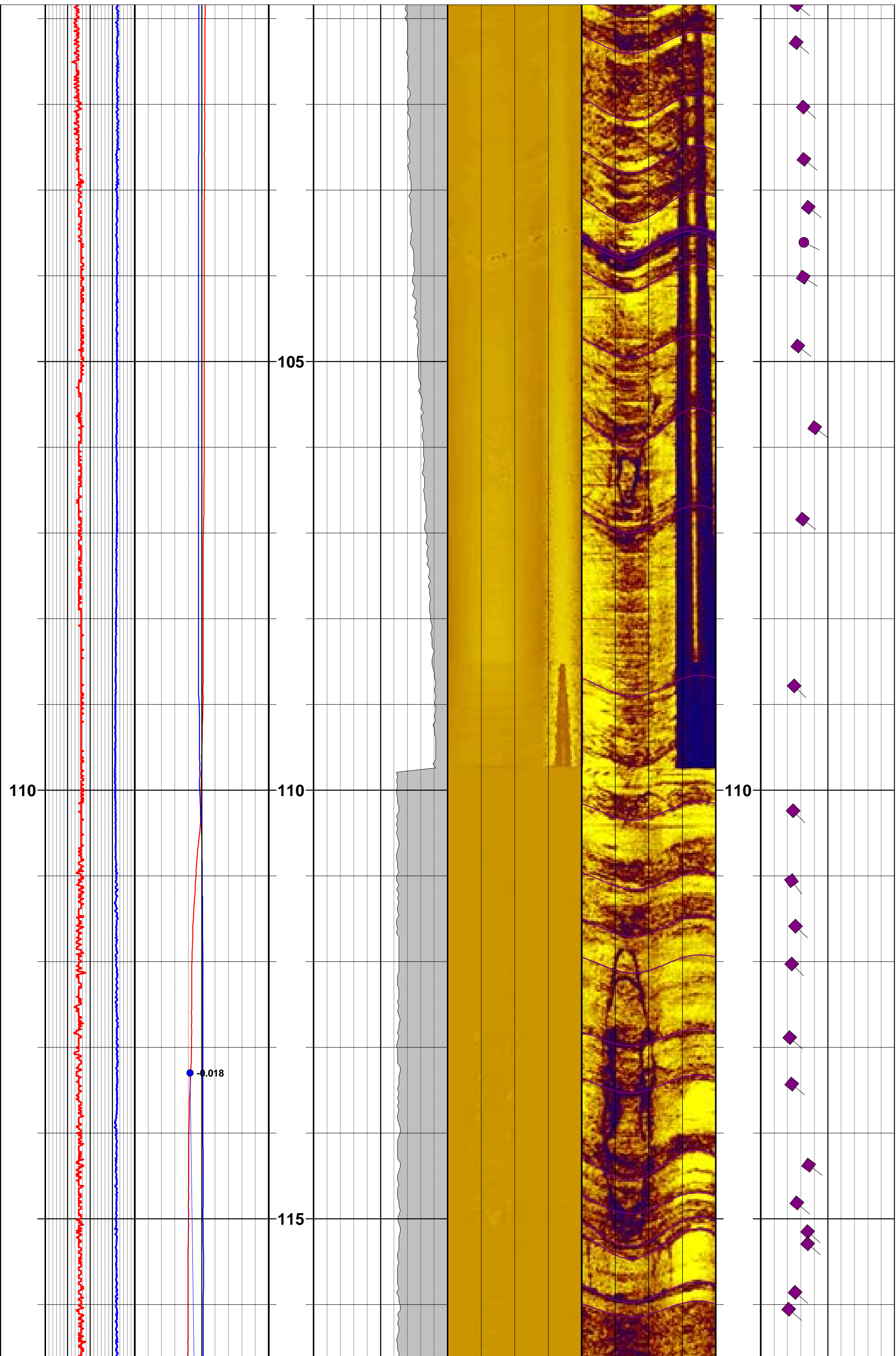
**Preliminary Logs**

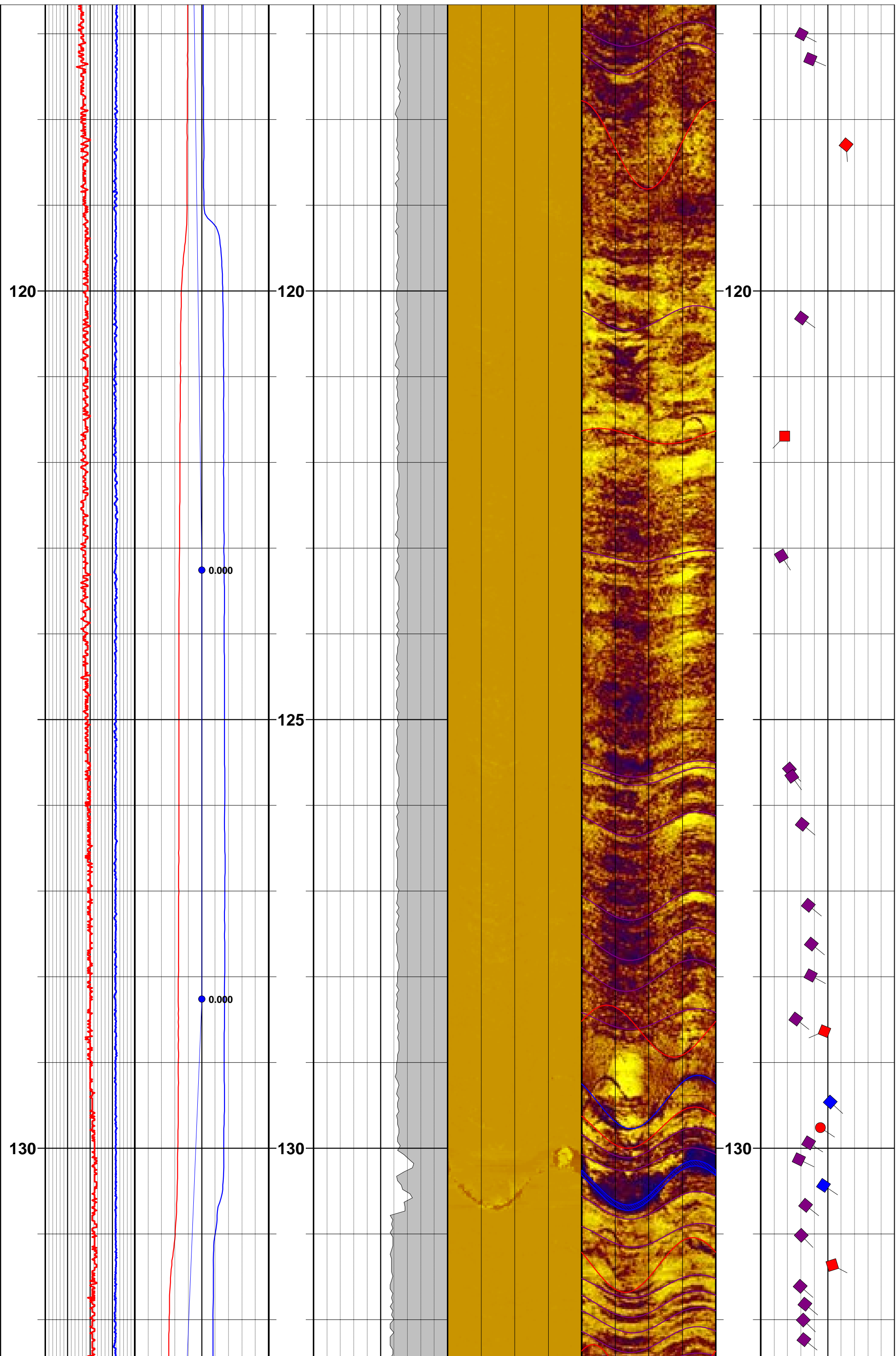
<b>Driller:</b> Cascade	<b>Casing Dia.:</b> 5.4 in	<b>Log Depth Ref.:</b> Logs zeroed @ gs	<b>Location:</b> Plant McDonough
<b>Drilled Depth:</b> 140 ft bgs	<b>Casing Material:</b> Steel	<b>Water Level:</b> 22.49 ft bgs @ 7:47am	
<b>Drill Date:</b> March 29, 2022	<b>Casing Depth:</b> 92.5 ft bgs	<b>Borehole Incl.:</b> vertical	<b>Log Date:</b> March 30, 2022
<b>Drill Method.:</b> 6" sonic	<b>Casing Stick-up:</b> 1.75 ft ags	<b>Borehole Az.:</b> na	<b>Logged By:</b> Chris Bryant

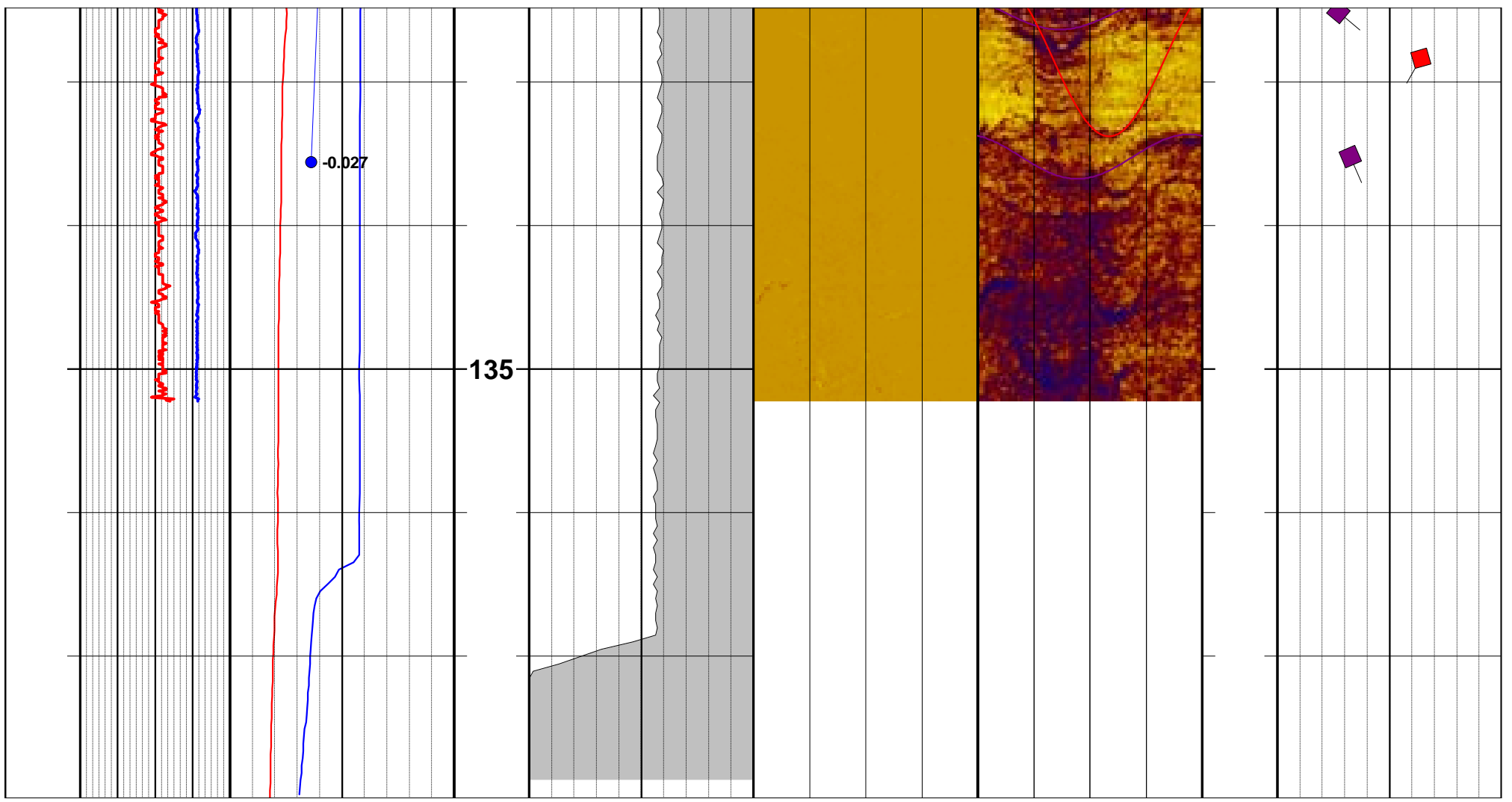
**Notes:** B-123 was drilled from 110 to 140 ft after completion of the geophysical logging on 3-29-2022. All tools were zeroed with the probe top at the TOC and corrected to ground surface in processing. The accuracy of the orientation sensor (APS544) used in the QL40ABI-2G (ABI) acoustic televiewer is +/- 1.2 degrees for Azimuth and +/- 0.5 degrees for Tilt. The ABI images are oriented to magnetic north. Water level at the start of the static HPFM run was 23.21 ft bgs at 9:38 am, a drop of ~0.72 ft in ~2 hours, a falling head condition during the test.

**Structure Legend:** Foliation Open Foliation Open Fracture / Joint Filled Fracture / Joint Producing Fracture / Joint









**APPENDIX D**

# Certified Well Survey



1469 HIGHWAY 20 WEST • McDONOUGH, GA 30253  
phone: 770-707-0777 fax: 770.707-0755  
WWW.METRO-ENGINEERING.COM

## SURVEYOR'S REPORT

### SCOPE OF WORK:

Field survey of existing monitoring wells at Georgia Power Company, Plant Branch in Milledgeville, GA.

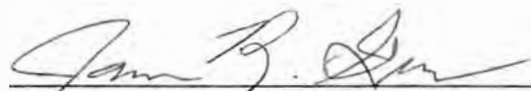
Horizontal and vertical datum was derived from RTK GPS observations with corrections received via a cellular modem utilizing the Leica "Smartnet" RTK Network and conventional surveying equipment. Horizontal datum is Georgia State Plane, West Zone, NAD83(2011) and vertical datum is NAVD88.

### EQUIPMENT USED TO ESTABLISH THE MONITORING WELL LOCATIONS:

Leica GS18T GPS Receiver  
Leica TS16 Total Station  
Leica DNA10 Digital Level

### CERTIFICATION:

I hereby certify that the center of well casing (PVC) has a horizontal accuracy of 0.5+/- feet or better using a Leica GS18T GPS (survey-grade) global positioning system receiver referencing the Georgia State Plane, West Zone, NAD83(2011) coordinate system in US survey feet. The top of well casing (PVC) elevation data was determined in feet above mean sea level based on the NAVD88 vertical datum. Vertical data was confirmed to be accurate within 0.01 foot through establishment of a closed level check loop with a Leica DNA10 digital level having a published accuracy of 0.9mm per dual-traverse kilometer.

  
James R. Green R.L.S. No. 2543

Date: 5/10/22



Plant McDonough  
Monitoring Well Locations  
May 9, 2022

Well ID	LATITUDE	LONGITUDE	NAIL NORTHING	NAIL EASTING	NAIL ELEV	PVC NORTHING	PVC EASTING	TOP PVC ELEV	ELEV AT BASE
B-122D	N33.823541	W84.474897	1390992.06	2202975.35	777.32	1390992.8	2202975.4	777.03	777.3
B-123D	N33.824203	W84.476108	1391233.80	2202608.91	778.85	1391234.4	2202608.4	781.80	779.0
DWGC121	N33.822829	W84.481895	1390739.51	2200848.27	764.52	1390739.7	2200849.4	764.16	764.6

**APPENDIX D**

# Well Maintenance and Repair Memorandum and Well Condition Inspection Forms



**APPENDIX D**

**Well Maintenance Repair  
Memorandum**



## TECHNICAL MEMORANDUM

**DATE** February 9, 2022

**TO** Joju Abraham, PG  
Southern Company Services

**CC** Ben Hodges, Georgia Power Company

**FROM** Golder Associates USA Inc.

**PLANT MCDONOUGH ASH POND 1, ASH POND 2 AND ASH POND 3/4**  
**WELL MAINTENANCE AND REPAIR DOCUMENTATION**  
**GEORGIA POWER COMPANY**

Golder Associates USA Inc. (Golder) has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at Plant McDonough Ash Pond 1, Ash Pond 2, and Ash Pond 3/4 during the semi-annual reporting period. Repairs and maintenance were completed in accordance with 12-5-134 (5)(D)vii of the Georgia Well Standards Act (1985) for routine visual inspections of groundwater monitoring wells (i.e., at least once every five years) under the direction of a Georgia licensed professional engineer or geologist.

**Plant McDonough – Well Maintenance Summary**

Well ID	Date Performed	Maintenance/Repair Performed
DGWA-53	October 2021	Cleared vegetation to improve access and visibility
DGWA-71	October 2021	Cleared vegetation to improve access and visibility. Replaced protective cover lid.
DGWC-2	October 2021	Replaced protective bollard.
DGWC-4	October 2021	Cleared vegetation to improve access and visibility
DGWC-5	October 2021	Cleared vegetation to improve access and visibility
DGWC-22	October 2021	Straighten protective bollard and added concrete to base.
DGWC-30	October 2021	Cleared vegetation to improve access and visibility
B-62	October 2021	Filled annular space with Portland/bentonite grout to approximately 5" from top of casing. Added pea gravel on top of grout.
B-63	October 2021	Repaired surface cracks in concrete pad with concrete resurface/fill
B-65	October 2021	Added concrete strap over the manhole cover for security.

Well ID	Date Performed	Maintenance/Repair Performed
B-87	October 2021	Cleared vegetation to improve access and visibility
B-88	October 2021	Cleared vegetation to improve access and visibility
B-94	October 2021	Cleared vegetation to improve access and visibility
B-95	October 2021	Replace concrete apron around flush mount protective cover. Updated survey is pending.
B-111	October 2021	Cleared vegetation to improve access and visibility
B-117D	October 2021	Cleared vegetation to improve access and visibility
B-3	October 2021	Cleared vegetation to improve access and visibility
B-120D	October 2021	Cleared vegetation to improve access and visibility
B-5	October 2021	Cleared vegetation to improve access and visibility
B-59	October 2021	Cleared vegetation to improve access and visibility; Straighten protective bollard.
DGWC-37	October 2021	Straighten protective bollard.
All wells	October 2021	Well Signs were confirmed and/or installed at all locations except for B-110D, B-112D and B-113D. These locations are flush mount wells located at the toe of AP1 dike. Signs will be replaced post construction.

**Golder Associates USA Inc.**



Dawn L. Prell  
Senior Consultant, Hydrogeologist



Rachel P. Kirkman, PG  
Senior Consultant, Principal

Attachments: Photo Documentation

[https://golderassociates.sharepoint.com/sites/11950g/shared documents/300\\_field information/2021/09\\_2021 sagw/mcd\\_well maintenance repair memo 2.2021.docx](https://golderassociates.sharepoint.com/sites/11950g/shared%20documents/300_field%20information/2021/09_2021_sagw/mcd_well_maintenance_repair_memo_2.2021.docx)

**Southern Company CFS**  
**Plant McDonough Oct 2021 Well O&M**

AP1 – DGWA-53:           Cleared overgrowth from around pad.



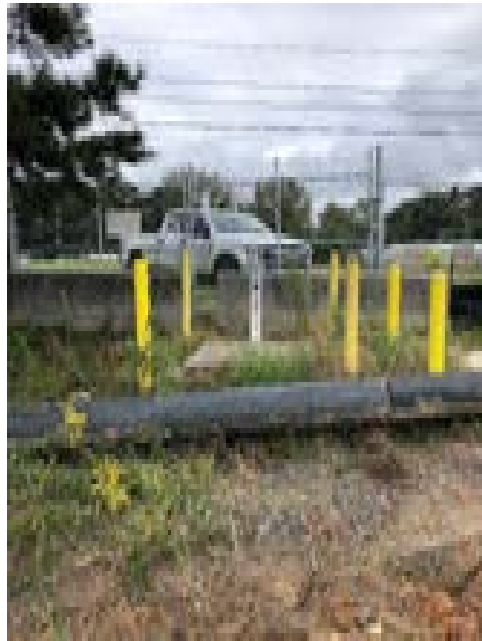
AP1 – DGWA-71:           Cleared overgrowth from around pad. Removed cracked protective cover lid and replaced with a new lid.



**Southern Company CFS**  
**Plant McDonough Oct 2021 Well O&M**



AP-2/3/4 – DGWC-2: Replaced front left bollard.



**Southern Company CFS**  
**Plant McDonough Oct 2021 Well O&M**

AP-2/3/4 – DGWC-4: Cleared overgrowth from around pad.



AP-2/3/4 – DGWC-5: Cleared overgrowth from around pad.



## Southern Company CFS Plant McDonough Oct 2021 Well O&M

AP-2/3/4 – DGWC-22: Straightened bollard and added additional concrete to base.

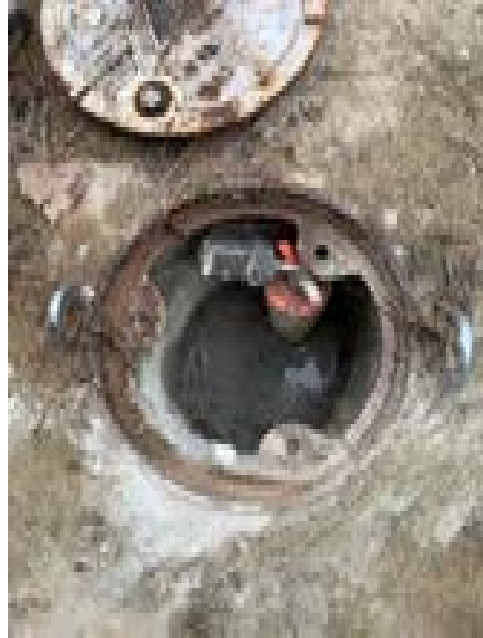
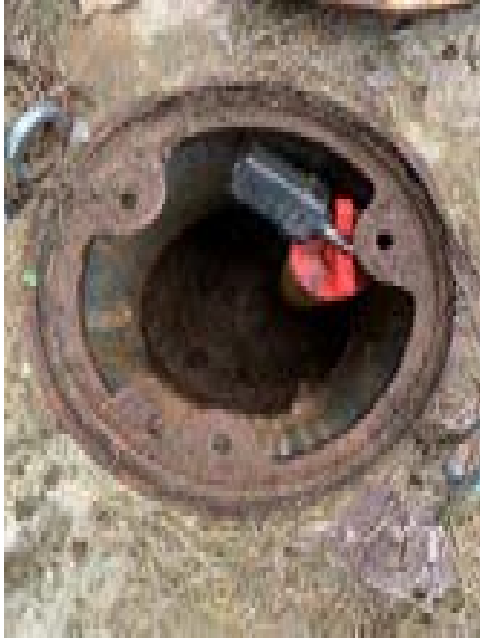


AP1 – DGWC-39: Cleared overgrowth from around pad.



## Southern Company CFS Plant McDonough Oct 2021 Well O&M

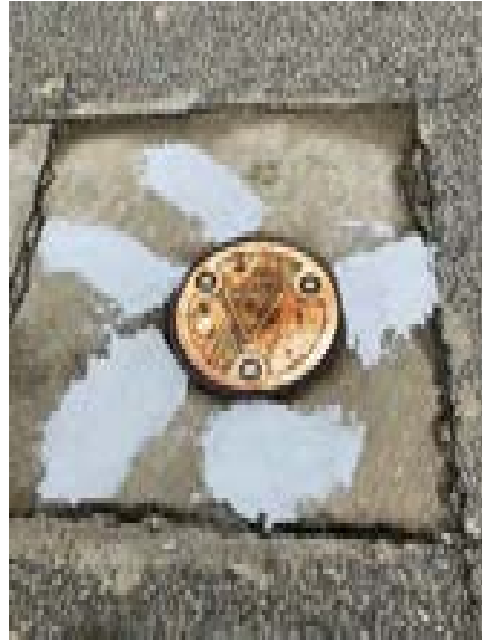
AP-4 2/3/- B-62: Filled annular with Portland/Bentonite Grout and brought up to approx. 5" from top of casing. Added pea gravel to top of grout.



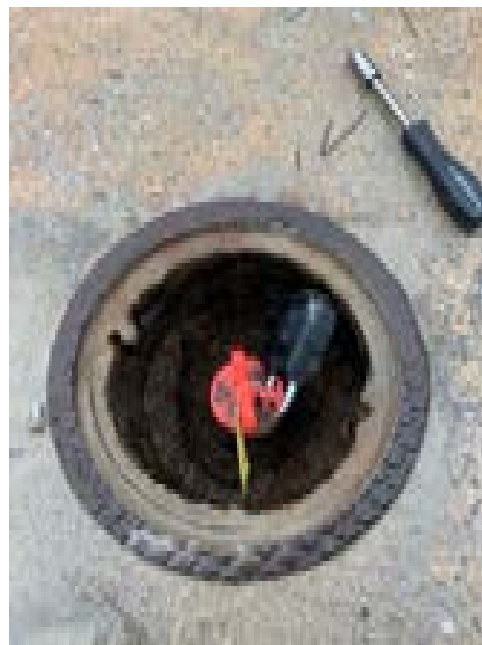
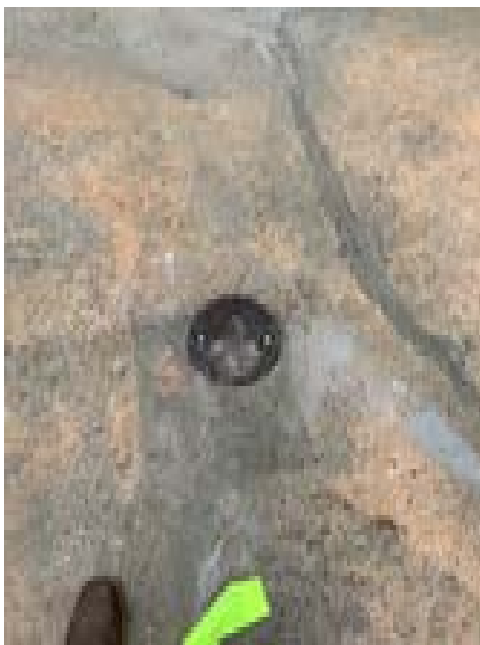


**Southern Company CFS**  
**Plant McDonough Oct 2021 Well O&M**

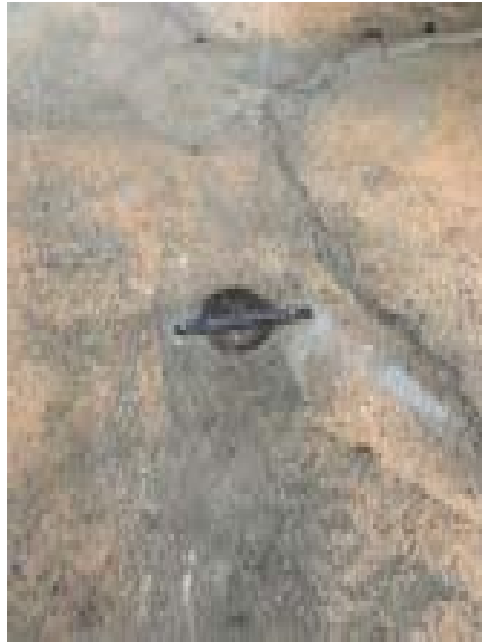
AP-2/3/4 – B-63: Only surface cracks observed in pad. Used concrete resurface/fill to fill in superficial cracks.



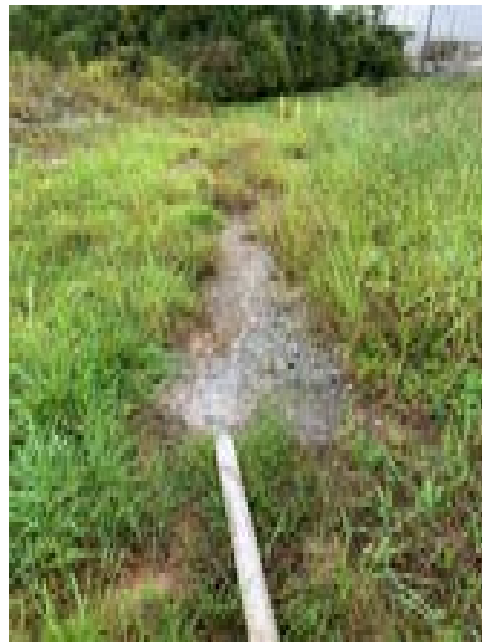
AP4 – B-65: Bolt flange on inside of manhole broke due to concrete truck traffic at the Argos Batch Plant near AP4 fence. The only way to repair is to saw cut the manhole/pad out of concrete and replace. After discussing with ES&EE, decided to place a strap over top of the manhole cover to keep it in place. If truck traffic damages the strap, then full replacement may be required.



**Southern Company CFS**  
**Plant McDonough Oct 2021 Well O&M**



AP-4 2/3/- B-68: Discharge pipe is coming from the Argos Concrete Batch Plant Washdown area. The pipe is owned by Argos. After discussing with ES&EE, CFS did not tamper with the pipe until GPC EA/ES&EE contact Argos about extending the pipe downgradient of B-68.



**Southern Company CFS**  
**Plant McDonough Oct 2021 Well O&M**

AP-4 2/3/- B-87:      Cleared overgrowth from around pad.



AP-4 2/3/- B-88:      Cleared overgrowth from around pad.

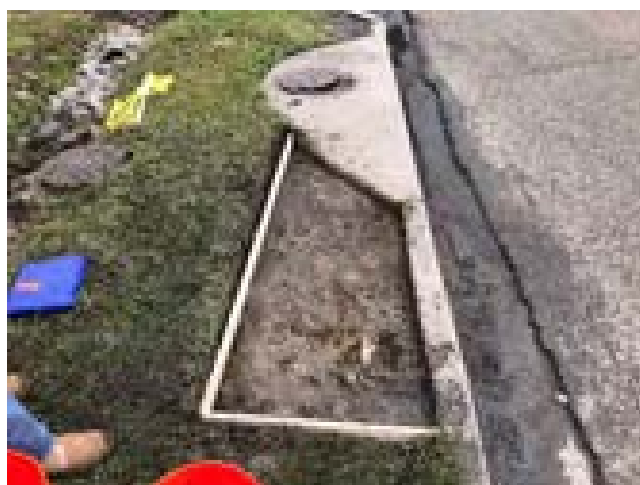
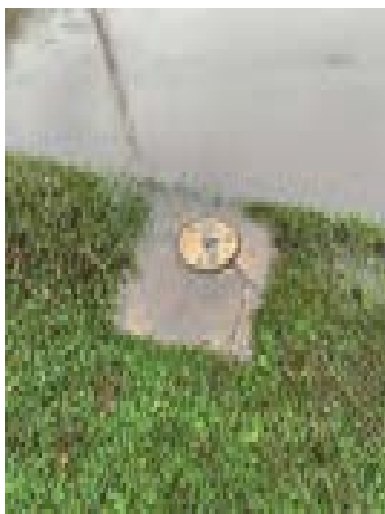


## Southern Company CFS Plant McDonough Oct 2021 Well O&M

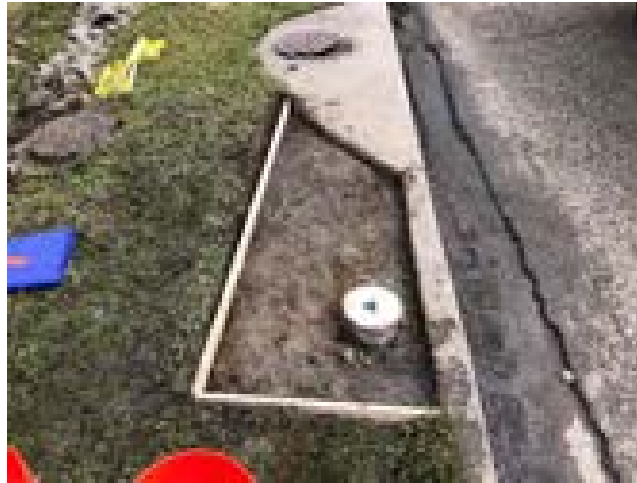
AP-4 2/3/- B-94:       Cleared overgrowth from around pad.



AP-4 2/3/- B-95:       Cracked pad due to truck traffic from Waste Management Facility. Appears that the manhole cover was pushed down which crushed the pad. The cover also contacted well cap and broke it. CFS removed the old pad/manhole and replaced. To lower the manhole closer to curb height to try to prevent the cover from being pushed down, CFS trimmed approx. 1' from the bottom of the manhole skirt. CFS also cut off the riser approx. 2" and replaced the well cap. The pad size was also increased, and rebar embedded in the concrete to strengthen and try to prevent the pad from cracking if it is run over again. Since CFS replaced the well cap, Golder will need to install a new cap lock as CFS was not able to transfer the lock over to the new cap. The well should also be resurveyed since the riser was cut off.



**Southern Company CFS**  
**Plant McDonough Oct 2021 Well O&M**



**Southern Company CFS**  
**Plant McDonough Oct 2021 Well O&M**

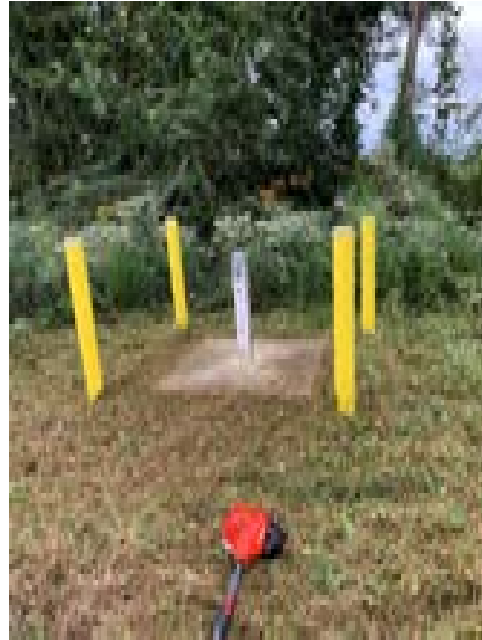


AP-4 2/3/- B-111D: Cleared overgrowth from around pad.



## Southern Company CFS Plant McDonough Oct 2021 Well O&M

AP-4 2/3/- B-117D: Cleared overgrowth from around pad.

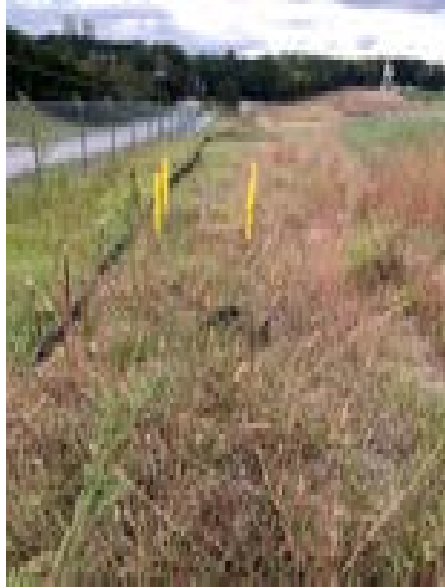


Additionally, all well signs that CFS was requested to procure, were installed during this O&M mobilization. All well signs were installed with the exception of B-110D, B-112D and B-113D. These are flush mount wells located at the toe of AP1 Dike. The ordered signs for these 3 wells were left in the SCS construction trailer, with the construction coordinator at the request of ES&EE.

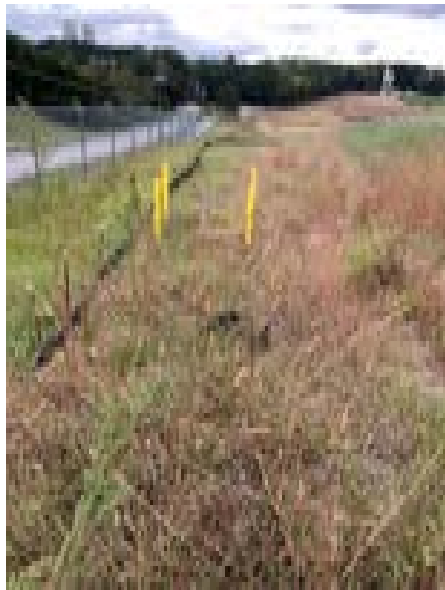
## Southern Company CFS Plant McDonough Oct 2021 Well O&M

While installing wells signs, additional wells that were observed needing maintenance where addressed:

B-3 – Clear overgrowth



B-120D – Clear Overgrowth





**Southern Company CFS**  
**Plant McDonough Oct 2021 Well O&M**

B-5 – Clear Overgrowth



B-59 – Straighten bollard and clear overgrowth



**Southern Company CFS**  
**Plant McDonough Oct 2021 Well O&M**

DGWC-37 – Straighten bollard



**APPENDIX D**

**Well Condition Assessment Forms  
September 2021**

**WELL INSPECTION FORM  
PLANT MCDONOUGH**

Well-ID	POSITION  ↑ or ↓	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		a. Visible and accessible b. Properly identified with correct ID c. Not in a high traffic area that requires traffic protection d. No standing water nearby, adequate surrounding drainage	a. Free from damage, degradation, or deterioration b. Functioning weep hole c. Annular space free of debris and water, and has enough pea gravel d. Functioning lock and in good condition	a. Pad & bollards in good condition b. Sloped away from the well c. In contact with protective casing d. Stable and in contact with ground surface e. Free of debris f. Survey pin clearly identified	a. Cap prevents entry of foreign material b. Free of kinks or bends or any obstruction from foreign objects c. Weephole present and cap not too tight to allow equilibrium for air pressure d. Survey point clearly marked on the inner casing e. Sounded depth consistent with well log f. Stable/immobile	a. Well recharges adequately when purged b. If dedicated sampling equipment installed, it is in good condition and specified in the approved groundwater plan for the facility c. Does not require redevelopment
		(S) for Satisfactory Discrepancies identified below	(S) for Satisfactory Discrepancies identified below	(S) for Satisfactory Discrepancies identified below	(S) for Satisfactory Discrepancies identified below	(S) for Satisfactory Discrepancies identified below
DGWA-53	↑	Overgrown	S	S	S	Poor recharge, requires purge dry and returning to sample
DGWA-70A	↑	S	S	S	S	S
DGWA-71	↑	Overgrown	Cracked Lid	S	S	S
DGWC-2	↓	S	S	Bollard knocked over	S	S
DGWC-4	↓	Overgrown	S	S	S	S
DGWC-5	↓	Overgrown	S	S	S	S
DGWC-8	↓	S	S	S	S	S
DGWC-9	↓	S	S	S	S	3 Well Volumes
DGWC-10	↓	S	S	S	S	S
DGWC-11	↓	S	S	S	S	S
DGWC-12	↓	S	S	S	S	S
DGWC-13	↓	S	S	S	S	S
DGWC-14	↓	S	S	S	S	S
DGWC-15	↓	S	S	S	S	S
DGWC-17	↓	S	S	S	S	S
DGWC-19	↓	S	S	S	S	S
DGWC-20	↓	S	S	S	S	S
DGWC-21	↓	S	S	S	S	S
DGWC-22	↓	S	S	Bollard knocked over	S	S
DGWC-23	↓	S	S	S	S	S
DGWC-37	↓	In floodplain	S	S	S	S
DGWC-38	↓	S	S	S	S	S
DGWC-39	↓	Overgrown	S	S	S	S
DGWC-40	↓	S	S	S	S	S
DGWC-42	↓	S	S	S	S	S
DGWC-47	↓	S	S	S	S	S
DGWC-48	↓	S	S	S	S	S
DGWC-67	↓	In floodplain	S	S	S	S
DGWC-68A	↓	S	S	S	S	S
DGWC-69	↓	S	S	S	S	S

**WELL INSPECTION FORM  
PLANT MCDONOUGH**

Well-ID	POSITION  ↑ or ↓	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		a. Visible and accessible b. Properly identified with correct ID c. Not in a high traffic area that requires traffic protection d. No standing water nearby, adequate surrounding drainage  (S) for Satisfactory Discrepancies identified below	a. Free from damage, degradation, or deterioration b. Functioning weep hole c. Annular space free of debris and water, and has enough pea gravel d. Functioning lock and in good condition  (S) for Satisfactory Discrepancies identified below	a. Pad & bollards in good condition b. Sloped away from the well c. In contact with protective casing d. Stable and in contact with ground surface e. Free of debris f. Survey pin clearly identified  (S) for Satisfactory Discrepancies identified below	a. Cap prevents entry of foreign material b. Free of kinks or bends or any obstruction from foreign objects c. Weephole present and cap not too tight to allow equilibrium for air pressure d. Survey point clearly marked on the inner casing e. Sounded depth consistent with well log f. Stable/immobile  (S) for Satisfactory Discrepancies identified below	a. Well recharges adequately when purged b. If dedicated sampling equipment installed, it is in good condition and specified in the approved groundwater plan for the facility c. Does not require redevelopment  (S) for Satisfactory Discrepancies identified below
B-3	↓	S	S	S	S	S
B-6	↓	S	S	S	S	S
B-7	↓	S	S	S	S	S
B-16	↓	S	S	S	S	S
B-18	↓	S	S	S	S	S
B-24	↓	S	S	S	S	S
B-25	↓	S	S	S	S	S
B-26	↓	S	S	S	S	S
B-28	↓	S	S	S	S	S
B-29	↓	S	S	S	S	S
B-31	↓	S	S	S	S	S
B-41	↓	S	S	S	S	S
B-50	↓	S	S	S	S	S
B-51	↓	In floodplain	S	S	S	S
B-52	↓	S	S	S	S	S
B-54	↓	S	S	S	S	S
B-55	↓	S	S	S	S	S
B-56	↓	S	S	S	S	S
B-57	↓	S	S	S	S	S
B-58	↓	S	S	S	S	S
B-59	↓	S	S	S	S	S
B-60	↓	S	S	S	S	S
B-61	↓	S	S	S	S	S
B-62	↓	S	Bolts and washers replaced	S	Cave in - annular space	S
B-63	↓	S	S	Well pad cracked	S	S
B-64	↓	S	S	S	S	S
B-65	↓	S	S	Bolt intake broken	S	S
B-66	↓	S	S	S	S	S
B-68	↓	S	S	S	S	S
B-72	↓	In floodplain	S	S	S	S
B-73	↓	S	S	S	S	S
B-74	↓	S	S	S	S	S
B-76	↓	S	S	S	S	S

**WELL INSPECTION FORM  
PLANT MCDONOUGH**

Well-ID	POSITION  ↑ or ↓	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		a. Visible and accessible b. Properly identified with correct ID c. Not in a high traffic area that requires traffic protection d. No standing water nearby, adequate surrounding drainage  (S) for Satisfactory Discrepancies identified below	a. Free from damage, degradation, or deterioration b. Functioning weep hole c. Annular space free of debris and water, and has enough pea gravel d. Functioning lock and in good condition  (S) for Satisfactory Discrepancies identified below	a. Pad & bollards in good condition b. Sloped away from the well c. In contact with protective casing d. Stable and in contact with ground surface e. Free of debris f. Survey pin clearly identified  (S) for Satisfactory Discrepancies identified below	a. Cap prevents entry of foreign material b. Free of kinks or bends or any obstruction from foreign objects c. Weep hole present and cap not too tight to allow equilibrium for air pressure d. Survey point clearly marked on the inner casing e. Sounded depth consistent with well log f. Stable/immobile  (S) for Satisfactory Discrepancies identified below	a. Well recharges adequately when purged b. If dedicated sampling equipment installed, it is in good condition and specified in the approved groundwater plan for the facility c. Does not require redevelopment  (S) for Satisfactory Discrepancies identified below
B-77	↓	Well ID replaced	S	S	S	S
B-78	↓	S	S	S	S	S
B-79	↓	S	S	S	S	S
B-80	↓	S	Pea gravel added	S	Weep hole added	S
B-81	↓	S	S	S	S	S
B-82	↓	Downgrade of discharge pipe	S	S	S	S
B-83	↓	S	Washers replaced	S	S	S
B-84	↓	Well ID replaced	Bolt replaced	S	S	S
B-85	↓	S	S	S	S	S
B-86	↓	S	S	S	S	S
B-87	↓	Overgrown	S	Overgrown	S	S
B-88	↓	Overgrown	S	Overgrown	S	S
B-89	↓	S	S	S	S	S
B-90	↓	Close to Road	S	S	S	S
B-91	↓	Close to Road	S	S	S	S
B-92	↓	Close to Road	S	S	S	S
B-93	↓	Close to Road	S	S	S	S
B-94	↓	Overgrown	S	S	S	S
B-95	↓	Close to Road	S	Cracked Pad	S	S
B-96	↓	Close to Road	S	S	S	S
B-97	↓	Close to Road	S	S	S	S
B-98	↓	Close to Road	S	S	S	S
B-99	↓	S	S	S	S	S
B-100	↓	S	S	S	S	S
B-101D	↓	S	S	S	S	S
B-102D	↓	S	S	S	S	S
B-103D	↓	S	S	S	S	S
B-104D	↓	S	S	S	S	S
B-105D	↓	S	S	S	S	S
B-106D	↓	S	S	S	S	S
B-107D	↓	S	S	S	S	S
B-108D	↓	S	S	S	S	S
B-109D	↓	S	Pea gravel added	S	S	S
B-110D	↓	S	Bolt replaced	S	S	S
B-111D	↓	Overgrown	S	S	S	S

**WELL INSPECTION FORM  
PLANT MCDONOUGH**

Well-ID	POSITION  ↑ or ↓	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		a. Visible and accessible b. Properly identified with correct ID c. Not in a high traffic area that requires traffic protection d. No standing water nearby, adequate surrounding drainage  (S) for Satisfactory Discrepancies identified below	a. Free from damage, degradation, or deterioration b. Functioning weep hole c. Annular space free of debris and water, and has enough pea gravel d. Functioning lock and in good condition  (S) for Satisfactory Discrepancies identified below	a. Pad & bollards in good condition b. Sloped away from the well c. In contact with protective casing d. Stable and in contact with ground surface e. Free of debris f. Survey pin clearly identified  (S) for Satisfactory Discrepancies identified below	a. Cap prevents entry of foreign material b. Free of kinks or bends or any obstruction from foreign objects c. Weep hole present and cap not too tight to allow equilibrium for air pressure d. Survey point clearly marked on the inner casing e. Sounded depth consistent with well log f. Stable/immobile  (S) for Satisfactory Discrepancies identified below	a. Well recharges adequately when purged b. If dedicated sampling equipment installed, it is in good condition and specified in the approved groundwater plan for the facility c. Does not require redevelopment  (S) for Satisfactory Discrepancies identified below
B-112D	↓	S	S	S	S	S
B-113D	↓	In floodplain	S	S	S	S
B-115D	↓	S	S	S	S	S
B-116D	↑	S	S	S	S	S
B-117D	↑	Overgrown	S	S	S	S
B-118	↑	Well ID replaced	S	S	S	S
B-119D	↑	Well ID replaced	S	S	S	S
B-120D	↓	S	S	S	S	S
AP-1-B-3	IW	S	S	S	S	S
AP-1-B-7	IW	S	S	S	S	S
AP-1-B-8	IW	S	S	S	S	S
						S

NOTES:  
IW = Interstitial Well  
1. Provide pictures of any deficiencies.  
2. Notify SCS /GPC of any noted deficiencies.  
3. Provide additional comments as necessary to address any deficiencies.

**APPENDIX D**

**Well Condition Assessment Forms  
January 2022**



# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWA-53

Date: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</b> | 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-70A

Date: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of _____ or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</b> | 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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-2

Date: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</b> | 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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-8

Date: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</b> | 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-9

Date: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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: 1/18/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- |  |   |   |  |
|--|---|---|--|
| A Is the well visible and accessible?  | X |   |  |
| B Is the well properly identified with correct well ID?  | X |   |  |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |  |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |  |

2) Protective Casing

- |   |   |  |  |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |  |
| B Is the casing free of degradation or deterioration?   | X |  |  |
| C Does the casing have a functioning weep hole?   | X |  |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |  |
| E Is the well locked and is the lock in good condition?   | X |  |  |

3) Surface Pad

- |   |   |  |  |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |  |

4) Internal Casing

- |   |   |  |  |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |  |
| E Is the depth of the well consistent with the original well log?   | X |  |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |  |
|--|---|---|--|
| A Does water recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |  |
| B Does the well require redevelopment (low flow/turbidity)?  | X |   |  |
| C  |   | X |  |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-11

Date: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</b> | 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: 1/18/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- |  |   |   |  |
|--|---|---|--|
| A Is the well visible and accessible?  | X |   |  |
| B Is the well properly identified with correct well ID?  | X |   |  |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |  |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |  |

2) Protective Casing

- |   |   |  |  |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |  |
| B Is the casing free of degradation or deterioration?   | X |  |  |
| C Does the casing have a functioning weep hole?   | X |  |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |  |
| E Is the well locked and is the lock in good condition?   | X |  |  |

3) Surface Pad

- |   |   |  |  |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |  |

4) Internal Casing

- |   |   |  |  |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |  |
| E Is the depth of the well consistent with the original well log?   | X |  |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |  |

5) Sampling: Groundwater Wells Only

- |  |   |   |  |
|--|---|---|--|
| A Does water recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |  |
| B Does the well require redevelopment (low flow/turbidity)?  | X |   |  |
| C  |   | X |  |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-14

Date: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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: 1/18/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- |  |   |   |  |
|--|---|---|--|
| A Is the well visible and accessible?  | X |   |  |
| B Is the well properly identified with correct well ID?  | X |   |  |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |  |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |  |

2) Protective Casing

- |   |   |  |  |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |  |
| B Is the casing free of degradation or deterioration?   | X |  |  |
| C Does the casing have a functioning weep hole?   | X |  |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |  |
| E Is the well locked and is the lock in good condition?   | X |  |  |

3) Surface Pad

- |   |   |  |  |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |  |

4) Internal Casing

- |   |   |  |  |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |  |
| E Is the depth of the well consistent with the original well log?   | X |  |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |  |

5) Sampling: Groundwater Wells Only

- |   |   |   |  |
|---|---|---|--|
| A Does water recharge adequately when purged?<br>If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |  |
| B Does the well require redevelopment (low flow/turbidity)?   | X |   |  |
| C   |   | X |  |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection



# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: DGWC-17

Date: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |
|----------|--|---|
| <b>A</b> | Is the well visible and accessible?  | X |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |

2) Protective Casing

- |          |   |   |
|----------|---|---|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |

3) Surface Pad

- |          |   |   |
|----------|---|---|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |

4) Internal Casing

- |          |   |   |
|----------|---|---|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |
| <b>F</b> | 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

- |          |  |   |
|----------|--|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |
| <b>C</b> | 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |
|---|---|---|
| <b>A</b> Is the well visible and accessible?  | X |   |
| <b>B</b> Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |  |   |  |
|--|---|--|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> 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

- |   |   |  |
|---|---|--|
| <b>A</b> Does water recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>B</b> 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |
|---|---|---|
| <b>A</b> Is the well visible and accessible?  | X |   |
| <b>B</b> Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |  |   |  |
|--|---|--|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> 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

- |   |   |  |
|---|---|--|
| <b>A</b> Does water recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>B</b> 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</b> | 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |
|---|---|---|
| <b>A</b> Is the well visible and accessible?  | X |   |
| <b>B</b> Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |  |   |  |
|--|---|--|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> 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

- |   |   |  |
|---|---|--|
| <b>A</b> Does water recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>B</b> 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-66

Date: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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: 1/18/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- |  |   |   |  |
|--|---|---|--|
| A Is the well visible and accessible?  | X |   |  |
| B Is the well properly identified with correct well ID?  | X |   |  |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |  |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |  |

2) Protective Casing

- |   |   |  |  |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |  |
| B Is the casing free of degradation or deterioration?   | X |  |  |
| C Does the casing have a functioning weep hole?   | X |  |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |  |
| E Is the well locked and is the lock in good condition?   | X |  |  |

3) Surface Pad

- |   |   |  |  |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |  |

4) Internal Casing

- |   |   |  |  |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |  |
| E Is the depth of the well consistent with the original well log?   | X |  |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |  |

5) Sampling: Groundwater Wells Only

- |  |   |  |  |
|--|---|--|--|
| A Does water recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |  |
| B Does the well require redevelopment (low flow/turbidity)?  | X |  |  |
| C  | X |  |  |

6) Based on professional judgement, is the well construction / location appropriate to **1)** achieve the objectives of the Groundwater Monitoring Program and **2)** comply with the applicable regulatory requirements? X

7) Corrective actions as needed, by date: \_\_\_\_\_

Signature and Seal of PE/PG responsible for inspection \_\_\_\_\_

# Groundwater Monitoring Well Integrity Form

Site Name: Plant McDonough

Permit Number:

Well ID: B-82

Date: 1/18/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- |  |   |   |  |
|--|---|---|--|
| A Is the well visible and accessible?  | X |   |  |
| B Is the well properly identified with correct well ID?  | X |   |  |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |  |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |  |

2) Protective Casing

- |   |   |  |  |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |  |
| B Is the casing free of degradation or deterioration?   | X |  |  |
| C Does the casing have a functioning weep hole?   | X |  |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |  |
| E Is the well locked and is the lock in good condition?   | X |  |  |

3) Surface Pad

- |   |   |  |  |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |  |

4) Internal Casing

- |   |   |  |  |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |  |
| E Is the depth of the well consistent with the original well log?   | X |  |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |  |

5) Sampling: Groundwater Wells Only

- |   |   |  |  |
|---|---|--|--|
| A Does water recharge adequately when purged?<br>If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |  |
| B Does the well require redevelopment (low flow/turbidity)?   | X |  |  |

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-83

Date: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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-88

Date: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</b> | 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-92

Date: 1/18/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- |  |   |   |  |
|--|---|---|--|
| A Is the well visible and accessible?  | X |   |  |
| B Is the well properly identified with correct well ID?  | X |   |  |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |  |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |  |

2) Protective Casing

- |   |   |  |  |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |  |
| B Is the casing free of degradation or deterioration?   | X |  |  |
| C Does the casing have a functioning weep hole?   | X |  |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |  |
| E Is the well locked and is the lock in good condition?   | X |  |  |

3) Surface Pad

- |   |   |  |  |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |  |

4) Internal Casing

- |   |   |  |  |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |  |
| E Is the depth of the well consistent with the original well log?   | X |  |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |  |

5) Sampling: Groundwater Wells Only

- |  |   |  |  |
|--|---|--|--|
| A Does water recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |  |
| B Does the well require redevelopment (low flow/turbidity)?  | X |  |  |

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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</b> | 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-97

Date: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |
|---|---|---|
| <b>A</b> Is the well visible and accessible?  | X |   |
| <b>B</b> Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |  |   |   |
|--|---|---|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          | X |   |
| <b>B</b> Is the casing free of degradation or deterioration?   | X |   |
| <b>C</b> Does the casing have a functioning weep hole?   | X |   |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |   |
| <b>E</b> Is the well locked and is the lock in good condition?   |   | X |

3) Surface Pad

- |  |   |  |
|--|---|--|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> 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

- |   |   |   |
|---|---|---|
| <b>A</b> Does water recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>B</b> 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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-101D

Date: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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: 1/18/22

	Yes	No	N/A
--	-----	----	-----

1) Location/Identification

- |  |   |   |  |
|--|---|---|--|
| A Is the well visible and accessible?  | X |   |  |
| B Is the well properly identified with correct well ID?  | X |   |  |
| C Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |  |
| D Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |  |

2) Protective Casing

- |   |   |  |  |
|---|---|--|--|
| A Is the protective casing free from apparent damage and able to be secured?                          | X |  |  |
| B Is the casing free of degradation or deterioration?   | X |  |  |
| C Does the casing have a functioning weep hole?   | X |  |  |
| D Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |  |
| E Is the well locked and is the lock in good condition?   | X |  |  |

3) Surface Pad

- |   |   |  |  |
|---|---|--|--|
| A Is the well pad in good condition (not cracked/broken)?                 | X |  |  |
| B Is the well pad sloped away from the protective casing?                 | X |  |  |
| C Is the well pad in complete contact with the ground surface and stable? | X |  |  |
| D Is the well pad in complete contact with the protective casing?         | X |  |  |
| E Is the pad surface clean (not covered with sediment or debris)?         | X |  |  |

4) Internal Casing

- |   |   |  |  |
|---|---|--|--|
| A Does the cap prevent entry of foreign material into the well?   | X |  |  |
| B Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |  |
| C Is the well properly vented for equilibration of air pressure?  | X |  |  |
| D Is the survey point clearly marked on the inner casing?   | X |  |  |
| E Is the depth of the well consistent with the original well log?   | X |  |  |
| F Is the casing stable? (Does PVC move easily when touched or can be taken apart by hand due to lack of grout or use of slip couplings in construction) | X |  |  |

5) Sampling: Groundwater Wells Only

- |   |   |  |  |
|---|---|--|--|
| A Does water recharge adequately when purged?<br>If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |  |
| B Does the well require redevelopment (low flow/turbidity)?   | X |  |  |

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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |
|---|---|---|
| <b>A</b> Is the well visible and accessible?  | X |   |
| <b>B</b> Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |  |   |  |
|--|---|--|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> 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

- |   |   |  |
|---|---|--|
| <b>A</b> Does water recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>B</b> 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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: One bollard has fallen

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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |
|----------|--|---|
| <b>A</b> | Is the well visible and accessible?  | X |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |

2) Protective Casing

- |          |   |   |
|----------|---|---|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |

3) Surface Pad

- |          |   |   |
|----------|---|---|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |

4) Internal Casing

- |          |   |   |
|----------|---|---|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |
| <b>F</b> | 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

- |          |  |   |
|----------|--|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |
| <b>C</b> | 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |
|----------|--|---|
| <b>A</b> | Is the well visible and accessible?  | X |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |

2) Protective Casing

- |          |   |   |
|----------|---|---|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |

3) Surface Pad

- |          |   |   |
|----------|---|---|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |

4) Internal Casing

- |          |   |   |
|----------|---|---|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |
| <b>F</b> | 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

- |          |  |   |
|----------|--|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |
| <b>C</b> | 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</b> | 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-115D

Date: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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-90

Date: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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-91

Date: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |
|---|---|---|
| <b>A</b> Is the well visible and accessible?  | X |   |
| <b>B</b> Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |  |   |  |
|--|---|--|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> 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

- |   |   |  |
|---|---|--|
| <b>A</b> Does water recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>B</b> 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-95

Date: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |   |
|----------|---|---|---|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |   |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |   |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |   |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |   |
| <b>E</b> | Is the well locked and is the lock in good condition?   |   | X |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</b> | 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Is the well visible and accessible?  | X |  |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |  |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |  |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |  |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |   |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</b> | 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |   |
|----------|--|---|---|
| <b>A</b> | Is the well visible and accessible?  | X |   |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |          |   |   |  |
|----------|---|---|--|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> | 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

- |          |  |   |  |
|----------|--|---|--|
| <b>A</b> | Does water recharge adequately when purged?  | X |  |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |  |
| <b>C</b> | 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-118

Date: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |   |   |   |
|---|---|---|
| <b>A</b> Is the well visible and accessible?  | X |   |
| <b>B</b> Is the well properly identified with correct well ID?  | X |   |
| <b>C</b> Is the well in a high traffic area and does the well require protection from traffic?                              |   | X |
| <b>D</b> Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |   |

2) Protective Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Is the protective casing free from apparent damage and able to be secured?                          | X |  |
| <b>B</b> Is the casing free of degradation or deterioration?   | X |  |
| <b>C</b> Does the casing have a functioning weep hole?   | X |  |
| <b>D</b> Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |  |
| <b>E</b> Is the well locked and is the lock in good condition?   | X |  |

3) Surface Pad

- |  |   |  |
|--|---|--|
| <b>A</b> Is the well pad in good condition (not cracked/broken)?                 | X |  |
| <b>B</b> Is the well pad sloped away from the protective casing?                 | X |  |
| <b>C</b> Is the well pad in complete contact with the ground surface and stable? | X |  |
| <b>D</b> Is the well pad in complete contact with the protective casing?         | X |  |
| <b>E</b> Is the pad surface clean (not covered with sediment or debris)?         | X |  |

4) Internal Casing

- |  |   |  |
|--|---|--|
| <b>A</b> Does the cap prevent entry of foreign material into the well?   | X |  |
| <b>B</b> Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |  |
| <b>C</b> Is the well properly vented for equilibration of air pressure?  | X |  |
| <b>D</b> Is the survey point clearly marked on the inner casing?   | X |  |
| <b>E</b> Is the depth of the well consistent with the original well log?   | X |  |
| <b>F</b> 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

- |   |   |   |
|---|---|---|
| <b>A</b> Does water recharge adequately when purged?  | X |   |
| <b>B</b> If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |   |
| <b>C</b> 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: 1/18/22

Yes	No	N/A
-----	----	-----

1) Location/Identification

- |          |  |   |
|----------|--|---|
| <b>A</b> | Is the well visible and accessible?  | X |
| <b>B</b> | Is the well properly identified with correct well ID?  | X |
| <b>C</b> | Is the well in a high traffic area and does the well require protection from traffic?                              | X |
| <b>D</b> | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | X |

2) Protective Casing

- |          |   |   |
|----------|---|---|
| <b>A</b> | Is the protective casing free from apparent damage and able to be secured?                          | X |
| <b>B</b> | Is the casing free of degradation or deterioration?   | X |
| <b>C</b> | Does the casing have a functioning weep hole?   | X |
| <b>D</b> | Is the annular space between the casings clear of debris and water, or filled with pea gravel/sand? | X |
| <b>E</b> | Is the well locked and is the lock in good condition?   | X |

3) Surface Pad

- |          |   |   |
|----------|---|---|
| <b>A</b> | Is the well pad in good condition (not cracked/broken)?                 | X |
| <b>B</b> | Is the well pad sloped away from the protective casing?                 | X |
| <b>C</b> | Is the well pad in complete contact with the ground surface and stable? | X |
| <b>D</b> | Is the well pad in complete contact with the protective casing?         | X |
| <b>E</b> | Is the pad surface clean (not covered with sediment or debris)?         | X |

4) Internal Casing

- |          |   |   |
|----------|---|---|
| <b>A</b> | Does the cap prevent entry of foreign material into the well?   | X |
| <b>B</b> | Is the casing free of kinks/bends, or any obstructions from foreign objects (such as bailers)?  | X |
| <b>C</b> | Is the well properly vented for equilibration of air pressure?  | X |
| <b>D</b> | Is the survey point clearly marked on the inner casing?   | X |
| <b>E</b> | Is the depth of the well consistent with the original well log?   | X |
| <b>F</b> | 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

- |          |  |   |
|----------|--|---|
| <b>A</b> | Does water recharge adequately when purged?  | X |
| <b>B</b> | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater monitoring plan for the facility? | X |
| <b>C</b> | 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 E**

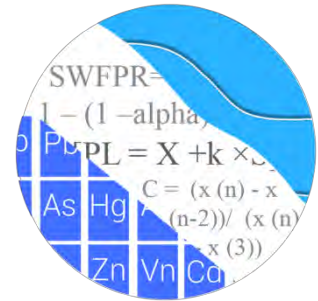
# Statistical Analyses



**APPENDIX D**

**Statistical Analysis  
September 2021**

## GROUNDWATER STATS CONSULTING



February 28, 2022

Southern Company Services  
Attn: Mr. Joju Abraham  
241 Ralph McGill Blvd NE, Bin 10160  
Atlanta, Georgia 30308-3374

Re: Plant McDonough Ash Pond (AP-2,3,4)  
September 2021 Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the September 2021 Semi-Annual Groundwater 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

- **Delineation 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 delineation 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

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Groundwater Statistician of 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 delineation 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 are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

## **Summary of Background Screening – Conducted in March 2019**

### Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not 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 2021**

### Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through September 2021 (Figure D). Background (upgradient) well data were re-assessed for potential outliers during this analysis and no new values were flagged. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The September 2021 sample from each downgradient well is compared to the background limit to determine whether 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 and DGWC-11
- Calcium: DGWC-4, DGWC-5, DGWC-11, and DGWC-19
- Chloride: DGWC-11, DGWC-15, and DGWC-20
- pH: DGCW-5 and DGWC-19
- Sulfate: DGWC-19
- TDS: DGWC-5, DGWC-11, and DGWC-19

#### Decreasing trends

- Boron: DGWC-2, DGWC-8, DGWC-9, DGWC-10, DGWC-12, DGWC-13, DGWC-20, DGWC-47, and DGWC-48
- Calcium: DGWC-2, DGWC-48, and DGWA-53 (upgradient)
- Chloride: DGWC-4, DGWC-12, DGWC-19, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-48, and DGWA-53 (upgradient)
- Fluoride: DGWC-48
- pH: DGWC-9
- Sulfate: DGWC-2, DGWC-8, DGWC-12, DGWC-15, DGWC-20, DGWC-47, DGWC-48, DGWA-70A (upgradient), and DGWA-71 (upgradient)
- TDS: DGWC-8, DGWC-20, DGWC-48, and DGWA-53 (upgradient)

### **Statistical Analysis of Appendix IV Parameters – September 2021**

For Appendix IV parameters, confidence intervals for each downgradient and delineation 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 delineation 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 2021 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).

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 for a constituent, CCR-rule specified levels have been specified 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

On July 30, 2018, USEPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Georgia EPD has not incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, for sites regulated under Georgia EPD Rules, the GWPS is:

- The MCL or
- The background concentration when an MCL is not established or when the background concentration is higher than the MCL.

Following the above Georgia EPD Rule requirements, GWPS were established for statistical comparison of Appendix IV constituents for the September 2021 sample event for the Federal and State rules (Figures G and H, respectively).

## Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for the Appendix IV constituents in accordance with the federal and state requirements in each downgradient well (Figures I and J, respectively). Note that confidence intervals require a minimum of 4 samples and, in many cases, the delineation 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 Figures I and J. A summary of the

confidence intervals follows this letter. Exceedances were noted for the following well/constituent pairs:

Federal:

- Arsenic: DGWC-9
- Beryllium: DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48, and B-93
- Cobalt: DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, and B-93
- Combined Radium 226 + 228: B-104D
- Lithium: DGWC-47 and DGWC-48
- Selenium: DGWC-9

State:

- Arsenic: DGWC-9
- Beryllium: DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48, and B-93
- Cobalt: DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, and B-93
- Combined Radium 226 + 228: B-104D
- Lithium: DGWC-47, DGWC-48, and B-104D
- Selenium: DGWC-9

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 K). 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. 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

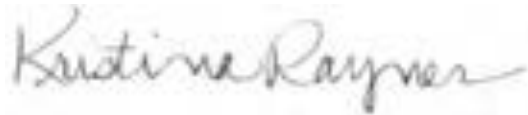
- Beryllium: DGWA-70A (upgradient) and DGWC-47
- Cobalt: DGWA-53 (upgradient), DGWC-8, DGWC-9, DGWC-10, DGWC-47, and DGWC-48
- Lithium: DGWC-47 and DGWC-48

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,



Andrew T. Collins  
Project Manager



Kristina L. Rayner  
Groundwater Statistician

# 100% Non-Detects: Appendix IV Downgradient & Delineation Wells

Analysis Run 11/8/2021 1:50 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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**Antimony (mg/L)**

DGWC-10, DGWC-11, DGWC-13, DGWC-20, DGWC-22, DGWC-42, DGWC-9, B-107D, B-108D, B-115D, B-56, 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-109D, B-120D, B-62, B-63, B-66, B-82, B-83, B-88, B-97, B-98

**Beryllium (mg/L)**

DGWC-14, DGWC-2, B-108D, B-111D, B-66

**Cadmium (mg/L)**

DGWC-14, B-101D, 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, B-98

**Cobalt (mg/L)**

DGWC-14, B-109D

**Fluoride, total (mg/L)**

B-100, B-107D, B-108D, B-120D, B-88

**Lead (mg/L)**

DGWC-22, B-106D, B-108D, B-109D, B-62, B-66, B-92, B-97, B-98

**Lithium (mg/L)**

B-66

**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-102D, 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, B-98

**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-92, B-93, B-97, B-98

# Appendix III Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 1:20 PM

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	9/10/2021	0.24	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	9/9/2021	1.5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	9/9/2021	2	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	9/9/2021	0.62	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	9/9/2021	1.6	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	9/13/2021	0.78	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	9/9/2021	2.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	9/9/2021	0.51	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	9/10/2021	4.8	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	9/9/2021	5.8	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	9/10/2021	4.5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	9/9/2021	4.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	9/10/2021	5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	9/13/2021	0.95	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	9/10/2021	0.16	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	9/10/2021	0.55	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	9/10/2021	4.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	9/13/2021	0.86	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	9/10/2021	0.54	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	9/10/2021	82.4	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	9/9/2021	66.8	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	9/9/2021	93.6	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-2	40.3	n/a	9/9/2021	42	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	9/10/2021	69.8	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	9/9/2021	75.3	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	9/10/2021	62.3	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	9/9/2021	76.4	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	9/10/2021	285	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	9/10/2021	68.7	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	9/10/2021	123	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	9/10/2021	47.7	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-10	5.07	n/a	9/10/2021	8.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-11	5.07	n/a	9/9/2021	13.6	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-12	5.07	n/a	9/9/2021	8.5	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-13	5.07	n/a	9/9/2021	12.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-15	5.07	n/a	9/9/2021	21.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-17	5.07	n/a	9/13/2021	18.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-19	5.07	n/a	9/9/2021	25.4	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-20	5.07	n/a	9/10/2021	26.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-21	5.07	n/a	9/9/2021	20.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-22	5.07	n/a	9/10/2021	17.3	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-23	5.07	n/a	9/9/2021	12.3	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-4	5.07	n/a	9/10/2021	13.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-42	5.07	n/a	9/13/2021	17.1	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-48	5.07	n/a	9/10/2021	10.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-5	5.07	n/a	9/10/2021	9.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-8	5.07	n/a	9/13/2021	8.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-9	5.07	n/a	9/10/2021	9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Fluoride, total (mg/L)	DGWC-10	0.42	n/a	9/10/2021	2.2	Yes	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-48	0.42	n/a	9/10/2021	0.47	Yes	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-9	0.42	n/a	9/10/2021	2	Yes	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
pH, Field (SU)	DGWC-10	6.646	5.155	9/10/2021	5.05	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-17	6.646	5.155	9/13/2021	5.06	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-19	6.646	5.155	9/9/2021	4.82	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2

# Appendix III Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 1:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (SU)	DGWC-20	6.646	5.155	9/10/2021	4.67	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-42	6.646	5.155	9/13/2021	5.15	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-47	6.646	5.155	9/10/2021	4.1	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-48	6.646	5.155	9/10/2021	4.3	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-5	6.646	5.155	9/10/2021	4.89	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-8	6.646	5.155	9/13/2021	5.05	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-9	6.646	5.155	9/10/2021	3.98	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-10	33.32	n/a	9/10/2021	271	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-11	33.32	n/a	9/9/2021	247	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-12	33.32	n/a	9/9/2021	126	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-13	33.32	n/a	9/9/2021	127	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-14	33.32	n/a	9/9/2021	42.3	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-15	33.32	n/a	9/9/2021	139	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-17	33.32	n/a	9/13/2021	222	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-19	33.32	n/a	9/9/2021	315	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-2	33.32	n/a	9/9/2021	110	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-20	33.32	n/a	9/10/2021	399	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	33.32	n/a	9/9/2021	238	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	33.32	n/a	9/10/2021	234	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	33.32	n/a	9/9/2021	217	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	33.32	n/a	9/10/2021	823	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	33.32	n/a	9/13/2021	285	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	33.32	n/a	9/10/2021	123	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	33.32	n/a	9/10/2021	272	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	33.32	n/a	9/10/2021	449	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	33.32	n/a	9/13/2021	145	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	33.32	n/a	9/10/2021	264	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	299.2	n/a	9/10/2021	474	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	299.2	n/a	9/9/2021	433	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	299.2	n/a	9/13/2021	424	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	299.2	n/a	9/9/2021	480	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	299.2	n/a	9/10/2021	678	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	299.2	n/a	9/9/2021	396	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	299.2	n/a	9/10/2021	468	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	299.2	n/a	9/9/2021	455	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	299.2	n/a	9/10/2021	1520	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	299.2	n/a	9/13/2021	508	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	299.2	n/a	9/10/2021	532	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	299.2	n/a	9/10/2021	792	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	299.2	n/a	9/13/2021	306	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	299.2	n/a	9/10/2021	466	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2

# Appendix III Interwell Prediction Limits - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 11/8/2021, 1:20 PM

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	9/10/2021	0.24	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	9/9/2021	1.5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	9/9/2021	2	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	9/9/2021	0.62	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-14	0.13	n/a	9/9/2021	0.08	No	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	9/9/2021	1.6	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	9/13/2021	0.78	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	9/9/2021	2.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	9/9/2021	0.51	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	9/10/2021	4.8	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	9/9/2021	5.8	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	9/10/2021	4.5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	9/9/2021	4.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	9/10/2021	5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	9/13/2021	0.95	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	9/10/2021	0.16	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	9/10/2021	0.55	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	9/10/2021	4.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	9/13/2021	0.86	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	9/10/2021	0.54	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	9/10/2021	82.4	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	9/9/2021	66.8	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-12	40.3	n/a	9/9/2021	29.2	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-13	40.3	n/a	9/9/2021	38.2	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-14	40.3	n/a	9/9/2021	11.1	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-15	40.3	n/a	9/9/2021	34.4	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-17	40.3	n/a	9/13/2021	15.8	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	9/9/2021	93.6	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-2	40.3	n/a	9/9/2021	42	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	9/10/2021	69.8	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	9/9/2021	75.3	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	9/10/2021	62.3	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	9/9/2021	76.4	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	9/10/2021	285	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-42	40.3	n/a	9/13/2021	38.9	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-47	40.3	n/a	9/10/2021	24.4	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	9/10/2021	68.7	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	9/10/2021	123	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-8	40.3	n/a	9/13/2021	36	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	9/10/2021	47.7	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-10	5.07	n/a	9/10/2021	8.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-11	5.07	n/a	9/9/2021	13.6	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-12	5.07	n/a	9/9/2021	8.5	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-13	5.07	n/a	9/9/2021	12.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-14	5.07	n/a	9/9/2021	3.3	No	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-15	5.07	n/a	9/9/2021	21.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-17	5.07	n/a	9/13/2021	18.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-19	5.07	n/a	9/9/2021	25.4	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-2	5.07	n/a	9/9/2021	2.1	No	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-20	5.07	n/a	9/10/2021	26.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-21	5.07	n/a	9/9/2021	20.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-22	5.07	n/a	9/10/2021	17.3	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-23	5.07	n/a	9/9/2021	12.3	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-4	5.07	n/a	9/10/2021	13.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2





# Appendix III Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 1:20 PM

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-2	33.32	n/a	9/9/2021	110	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-20	33.32	n/a	9/10/2021	399	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	33.32	n/a	9/9/2021	238	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	33.32	n/a	9/10/2021	234	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	33.32	n/a	9/9/2021	217	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	33.32	n/a	9/10/2021	823	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	33.32	n/a	9/13/2021	285	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	33.32	n/a	9/10/2021	123	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	33.32	n/a	9/10/2021	272	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	33.32	n/a	9/10/2021	449	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	33.32	n/a	9/13/2021	145	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	33.32	n/a	9/10/2021	264	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	299.2	n/a	9/10/2021	474	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	299.2	n/a	9/9/2021	433	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	299.2	n/a	9/9/2021	275	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-13	299.2	n/a	9/9/2021	246	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-14	299.2	n/a	9/9/2021	99	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	299.2	n/a	9/9/2021	292	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	299.2	n/a	9/13/2021	424	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	299.2	n/a	9/9/2021	480	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-2	299.2	n/a	9/9/2021	260	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	299.2	n/a	9/10/2021	678	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	299.2	n/a	9/9/2021	396	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	299.2	n/a	9/10/2021	468	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	299.2	n/a	9/9/2021	455	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	299.2	n/a	9/10/2021	1520	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	299.2	n/a	9/13/2021	508	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-47	299.2	n/a	9/10/2021	274	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	299.2	n/a	9/10/2021	532	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	299.2	n/a	9/10/2021	792	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	299.2	n/a	9/13/2021	306	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	299.2	n/a	9/10/2021	466	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2

# Appendix III Trend Tests - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 2/25/2022, 7:30 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWC-10	-0.7511	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-11	0.06556	62	43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-12	-1.24	-63	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-13	-0.08547	-49	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-2	-0.263	-85	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-20	-0.7252	-64	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-4	0.3101	54	43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-47	-0.0335	-76	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-48	-0.07754	-68	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-8	-0.4216	-69	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-9	-0.2815	-80	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-53 (bg)	-4.533	-57	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-11	4.66	64	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-19	6.089	75	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-2	-15.03	-87	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-4	21.16	50	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-48	-7.485	-73	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-5	8.05	50	43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-53 (bg)	-0.1941	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-11	1.079	44	43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-12	-0.7273	-55	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-15	0.5787	57	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-19	-3.305	-69	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-20	2.833	83	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-21	-1.053	-62	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-22	-2.241	-68	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-23	-0.873	-72	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-4	-3.438	-85	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-42	-3.134	-79	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-48	-2.232	-67	-48	Yes	14	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-48	-0.1917	-68	-58	Yes	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.05374	74	58	Yes	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.112	74	58	Yes	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-9	-0.02122	-75	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-70A (bg)	-0.2582	-50	-48	Yes	14	35.71	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-71 (bg)	-1.564	-72	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-12	-47.07	-54	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-15	-8.561	-57	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-19	17.24	60	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-2	-59.83	-83	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-20	-51.63	-69	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-47	-58.21	-78	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-48	-56.15	-76	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-8	-72.96	-72	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-26.59	-62	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	32.36	53	43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	29.77	52	48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-58.61	-69	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-61.71	-79	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	38.2	54	43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	-87.61	-70	-43	Yes	13	0	n/a	n/a	0.01	NP

# Appendix III Trend Tests - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 2/25/2022, 7:30 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWA-53 (bg)	-0.002041	-16	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-70A (bg)	0	14	48	No	14	57.14	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-71 (bg)	0	-2	-43	No	13	23.08	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-10</b>	<b>-0.7511</b>	<b>-62</b>	<b>-43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-11</b>	<b>0.06556</b>	<b>62</b>	<b>43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-12</b>	<b>-1.24</b>	<b>-63</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-13</b>	<b>-0.08547</b>	<b>-49</b>	<b>-43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-15	0.01926	22	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-17	0.03666	39	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-19	-0.1898	-40	-48	No	14	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-2</b>	<b>-0.263</b>	<b>-85</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-20</b>	<b>-0.7252</b>	<b>-64</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-21	0.2662	21	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-22	0.1044	17	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-23	0.1025	25	48	No	14	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-4</b>	<b>0.3101</b>	<b>54</b>	<b>43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-42	-0.01135	-22	-48	No	14	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-47</b>	<b>-0.0335</b>	<b>-76</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-48</b>	<b>-0.07754</b>	<b>-68</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-5	-0.1613	-13	-43	No	13	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-8</b>	<b>-0.4216</b>	<b>-69</b>	<b>-43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-9</b>	<b>-0.2815</b>	<b>-80</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-4.533</b>	<b>-57</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWA-70A (bg)	-0.1515	-29	-48	No	14	7.143	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-71 (bg)	-0.6883	-36	-43	No	13	7.692	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-10	-1.262	-14	-43	No	13	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>DGWC-11</b>	<b>4.66</b>	<b>64</b>	<b>43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-19</b>	<b>6.089</b>	<b>75</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-2</b>	<b>-15.03</b>	<b>-87</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWC-20	-4.731	-43	-48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-21	2.444	41	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-22	0.05105	6	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-23	1.103	32	48	No	14	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>DGWC-4</b>	<b>21.16</b>	<b>50</b>	<b>43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-48</b>	<b>-7.485</b>	<b>-73</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-5</b>	<b>8.05</b>	<b>50</b>	<b>43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWC-9	-5.362	-25	-48	No	14	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-0.1941</b>	<b>-59</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWA-70A (bg)	-0.08417	-33	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-71 (bg)	0.07636	12	48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-10	-0.6293	-33	-48	No	14	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWC-11</b>	<b>1.079</b>	<b>44</b>	<b>43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-12</b>	<b>-0.7273</b>	<b>-55</b>	<b>-43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWC-13	-0.3754	-14	-43	No	13	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWC-15</b>	<b>0.5787</b>	<b>57</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWC-17	0.6518	35	48	No	14	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWC-19</b>	<b>-3.305</b>	<b>-69</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-20</b>	<b>2.833</b>	<b>83</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-21</b>	<b>-1.053</b>	<b>-62</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-22</b>	<b>-2.241</b>	<b>-68</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-23</b>	<b>-0.873</b>	<b>-72</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-4</b>	<b>-3.438</b>	<b>-85</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-42</b>	<b>-3.134</b>	<b>-79</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-48</b>	<b>-2.232</b>	<b>-67</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWC-5	0.4296	43	43	No	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-8	-0.1857	-24	-43	No	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-9	0.5877	44	48	No	14	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-53 (bg)	-0.001259	-9	-63	No	17	11.76	n/a	n/a	0.01	NP

# Appendix III Trend Tests - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 2/25/2022, 7:30 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Fluoride, total (mg/L)	DGWA-70A (bg)	0.01092	48	53	No	15	66.67	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-71 (bg)	0	32	58	No	16	81.25	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-10	0.03121	14	58	No	16	0	n/a	n/a	0.01	NP
<b>Fluoride, total (mg/L)</b>	<b>DGWC-48</b>	<b>-0.1917</b>	<b>-68</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	DGWC-9	0.03993	16	58	No	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-53 (bg)	0.02897	13	63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-70A (bg)	-0.02535	-22	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-71 (bg)	0.03005	28	63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-10	0.061	32	63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-17	-0.003279	-9	-63	No	17	0	n/a	n/a	0.01	NP
<b>pH, Field (SU)</b>	<b>DGWC-19</b>	<b>0.05374</b>	<b>74</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH, Field (SU)	DGWC-20	-0.02007	-42	-53	No	15	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-42	-0.02543	-32	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-47	-0.1735	-52	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-48	-0.02287	-24	-58	No	16	0	n/a	n/a	0.01	NP
<b>pH, Field (SU)</b>	<b>DGWC-5</b>	<b>0.112</b>	<b>74</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH, Field (SU)	DGWC-8	0	-3	-58	No	16	0	n/a	n/a	0.01	NP
<b>pH, Field (SU)</b>	<b>DGWC-9</b>	<b>-0.02122</b>	<b>-75</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWA-53 (bg)	-1.708	-31	-53	No	15	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWA-70A (bg)</b>	<b>-0.2582</b>	<b>-50</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>35.71</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWA-71 (bg)</b>	<b>-1.564</b>	<b>-72</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-10	-35.48	-42	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-11	15.01	34	43	No	13	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-12</b>	<b>-47.07</b>	<b>-54</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-13	-7.462	-36	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-14	-0.3613	-11	-43	No	13	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-15</b>	<b>-8.561</b>	<b>-57</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-17	-0.2865	-6	-48	No	14	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-19</b>	<b>17.24</b>	<b>60</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-2</b>	<b>-59.83</b>	<b>-83</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-20</b>	<b>-51.63</b>	<b>-69</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-21	-7.197	-43	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-22	-5.563	-14	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-23	0	3	48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-4	34.38	33	48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-42	-12.99	-40	-48	No	14	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-47</b>	<b>-58.21</b>	<b>-78</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-48</b>	<b>-56.15</b>	<b>-76</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-5	1.576	2	43	No	13	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-8</b>	<b>-72.96</b>	<b>-72</b>	<b>-43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-9	-8.648	-15	-48	No	14	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-26.59</b>	<b>-62</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWA-70A (bg)	-1.029	-7	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-71 (bg)	-5.605	-39	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	-38.88	-42	-48	No	14	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-11</b>	<b>32.36</b>	<b>53</b>	<b>43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	11.01	34	48	No	14	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-19</b>	<b>29.77</b>	<b>52</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-20</b>	<b>-58.61</b>	<b>-69</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	1.49	4	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	-5.683	-27	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	0.7783	3	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	86.33	45	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	-15.87	-24	-48	No	14	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-48</b>	<b>-61.71</b>	<b>-79</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-5</b>	<b>38.2</b>	<b>54</b>	<b>43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-8</b>	<b>-87.61</b>	<b>-70</b>	<b>-43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	7.766	16	48	No	14	0	n/a	n/a	0.01	NP

# Upper Tolerance Limits Summary Table

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 11/8/2021, 1:23 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	44	n/a	n/a	79.55	n/a	n/a	0.1047	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	44	n/a	n/a	81.82	n/a	n/a	0.1047	NP Inter(NDs)
Barium (mg/L)	n/a	0.19	n/a	n/a	n/a	44	n/a	n/a	0	n/a	n/a	0.1047	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0009	n/a	n/a	n/a	45	n/a	n/a	62.22	n/a	n/a	0.09944	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	44	n/a	n/a	93.18	n/a	n/a	0.1047	NP Inter(NDs)
Chromium (mg/L)	n/a	0.005	n/a	n/a	n/a	43	n/a	n/a	60.47	n/a	n/a	0.1102	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0322	n/a	n/a	n/a	44	n/a	n/a	36.36	n/a	n/a	0.1047	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	5.605	n/a	n/a	n/a	46	1.041	0.3523	0	None	x^(1/3)	0.05	Inter
Fluoride, total (mg/L)	n/a	0.42	n/a	n/a	n/a	48	n/a	n/a	52.08	n/a	n/a	0.08526	NP Inter(NDs)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	44	n/a	n/a	79.55	n/a	n/a	0.1047	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	44	n/a	n/a	36.36	n/a	n/a	0.1047	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	44	n/a	n/a	86.36	n/a	n/a	0.1047	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.0409	n/a	n/a	n/a	44	n/a	n/a	63.64	n/a	n/a	0.1047	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	44	n/a	n/a	100	n/a	n/a	0.1047	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	44	n/a	n/a	95.45	n/a	n/a	0.1047	NP Inter(NDs)

# Federal Confidence Intervals - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.03003	0.0172	0.01	Yes	15	0.02361	0.009468	6.667	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009208	0.005678	0.004	Yes	14	0.007443	0.002492	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01281	0.009018	0.004	Yes	15	0.01091	0.002797	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009234	0.007526	0.004	Yes	15	0.00838	0.00126	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008688	0.006197	0.004	Yes	14	0.007443	0.001758	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005896	0.004931	0.004	Yes	15	0.005413	0.000712	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.01805	0.006467	0.004	Yes	5	0.01378	0.003942	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.1888	0.1413	0.032	Yes	14	0.1537	0.04866	0	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05331	0.04925	0.032	Yes	15	0.05128	0.002996	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6394	0.4659	0.032	Yes	15	0.5575	0.1355	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3858	0.253	0.032	Yes	15	0.3194	0.09792	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5073	0.402	0.032	Yes	15	0.4547	0.07771	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.0878	0.04412	0.032	Yes	14	0.06596	0.03083	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.201	0.1437	0.032	Yes	15	0.1724	0.04231	0	None	No	0.01	Param.
Cobalt (mg/L)	B-56	0.05421	0.03629	0.032	Yes	4	0.04525	0.003948	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.0547	0.0353	0.032	Yes	5	0.045	0.005788	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.069	0.0594	0.032	Yes	5	0.0642	0.002864	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-104D	21.26	6.892	5.61	Yes	4	14.08	3.164	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07457	0.05787	0.04	Yes	15	0.06622	0.01232	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1269	0.106	0.04	Yes	15	0.1165	0.01544	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-9	0.1308	0.05207	0.05	Yes	15	0.09144	0.0581	0	None	No	0.01	Param.

# Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	B-100	0.001954	0.001046	0.006	No	4	0.00225	0.0008813	50	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	B-102D	0.003	0.0016	0.006	No	4	0.00265	0.0007	75	Kaplan-Meier	No	0.0625	NP (NDs)
Antimony (mg/L)	B-104D	0.001068	0.0003847	0.006	No	4	0.00126	0.001169	25	Kaplan-Meier	x^(1/3)	0.01	Param.
Antimony (mg/L)	B-111D	0.003	0.0006	0.006	No	4	0.0024	0.0012	75	Kaplan-Meier	No	0.0625	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.00046	0.006	No	7	0.002637	0.00096	85.71	Kaplan-Meier	No	0.008	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.00066	0.006	No	4	0.002415	0.00117	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00036	0.006	No	6	0.001737	0.001387	50	None	No	0.0155	NP (normality)
Antimony (mg/L)	B-93	0.003	0.0014	0.006	No	4	0.0026	0.0008	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	16	0.002831	0.000675	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	15	0.002873	0.0004906	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	15	0.002671	0.0008724	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	15	0.00283	0.0006584	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.00036	0.006	No	15	0.002824	0.0006816	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	15	0.00284	0.0006197	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	15	0.002847	0.0005939	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No	14	0.002491	0.001014	78.57	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No	15	0.00288	0.0004648	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	15	0.002746	0.0007213	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	14	0.002701	0.0007935	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.00046	0.006	No	14	0.002819	0.0006788	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-104D	0.002881	0.001519	0.01	No	4	0.0036	0.001635	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-111D	0.003281	0.001919	0.01	No	4	0.0038	0.001407	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-56	0.0047	0.003	0.01	No	4	0.0035	0.0008042	0	None	No	0.0625	NP (normality)
Arsenic (mg/L)	B-77	0.002882	0.001869	0.01	No	6	0.003233	0.001409	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	B-93	0.003589	0.0004108	0.01	No	4	0.0035	0.001824	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-10	0.00717	0.003601	0.01	No	14	0.005386	0.002519	7.143	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	16	0.004452	0.001498	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	15	0.004693	0.00119	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	15	0.004169	0.001726	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0008	0.01	No	15	0.003395	0.002042	60	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.002035	0.0009847	0.01	No	15	0.002317	0.001551	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No	15	0.004566	0.00118	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01666	0.007499	0.01	No	15	0.01208	0.006761	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No	15	0.004733	0.001033	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0008	0.01	No	14	0.004057	0.001875	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	15	0.004453	0.001445	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.002647	0.001328	0.01	No	15	0.002627	0.001504	20	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.0008	0.01	No	15	0.003206	0.002005	53.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.0118	0.002817	0.01	No	14	0.008443	0.009971	14.29	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.005	0.0012	0.01	No	14	0.00369	0.001839	64.29	None	No	0.01	NP (NDs)
<b>Arsenic (mg/L)</b>	<b>DGWC-9</b>	<b>0.03003</b>	<b>0.0172</b>	<b>0.01</b>	<b>Yes</b>	<b>15</b>	<b>0.02361</b>	<b>0.009468</b>	<b>6.667</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Barium (mg/L)	B-100	0.022	0.015	2	No	4	0.02	0.003367	0	None	No	0.0625	NP (selected)
Barium (mg/L)	B-102D	0.02571	0.01829	2	No	4	0.022	0.001633	0	None	No	0.01	Param.
Barium (mg/L)	B-104D	0.026	0.021	2	No	4	0.0225	0.00238	0	None	No	0.0625	NP (normality)
Barium (mg/L)	B-111D	0.05204	0.01546	2	No	4	0.03375	0.008057	0	None	No	0.01	Param.
Barium (mg/L)	B-56	0.03185	0.02315	2	No	4	0.0275	0.001915	0	None	No	0.01	Param.
Barium (mg/L)	B-62	0.02758	0.01985	2	No	7	0.02371	0.003251	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.03208	0.01592	2	No	4	0.024	0.003559	0	None	No	0.01	Param.
Barium (mg/L)	B-66	0.01942	0.01508	2	No	4	0.01725	0.0009574	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.1255	0.08983	2	No	6	0.1077	0.01299	0	None	No	0.01	Param.

<b>PLANT MCDONOUGH ASH POND 2,3,4 GWPS TABLE - FEDERAL</b>				
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>GWPS</b>
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.19	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		5.61	5.61
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*



<b>PLANT MCDONOUGH ASH POND 2,3,4 GWPS TABLE - STATE</b>				
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>GWPS</b>
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.19	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		5.61	5.61
Fluoride, Total (mg/L)	4		0.42	4
Lead, Total (mg/L)		0.015	0.001	0.001
Lithium, Total (mg/L)		0.04	0.03	0.03
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.041	0.041
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*

# Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	B-82	0.03301	0.01899	2	No	5	0.026	0.004183	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.05537	0.02029	2	No	5	0.0358	0.01158	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	B-88	0.02418	-0.01405	2	No	4	0.02025	0.002872	0	None	x^5	0.01	Param.
Barium (mg/L)	B-93	0.01892	0.01458	2	No	4	0.01675	0.0009574	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.02962	0.02305	2	No	14	0.02634	0.004637	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06644	0.05633	2	No	14	0.06139	0.007138	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03199	0.02415	2	No	16	0.02824	0.006231	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03292	0.02732	2	No	14	0.02908	0.007369	7.143	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06261	0.05787	2	No	15	0.06024	0.003493	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.05073	0.0443	2	No	15	0.04751	0.004744	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05635	0.04167	2	No	15	0.04901	0.01083	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02541	0.02177	2	No	15	0.02359	0.002686	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02268	0.02132	2	No	15	0.022	0.001	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01537	0.009179	2	No	15	0.01227	0.004566	6.667	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.024	2	No	15	0.02596	0.001505	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03773	0.03193	2	No	15	0.03483	0.004281	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.0236	0.01844	2	No	15	0.02113	0.004092	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03617	0.0322	2	No	14	0.03419	0.002802	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.0205	0.01622	2	No	15	0.01836	0.003153	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-47	0.01975	0.01597	2	No	15	0.01786	0.002794	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.01436	0.01298	2	No	15	0.01367	0.001016	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-5	0.01834	0.01649	2	No	13	0.01742	0.001247	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03806	0.02666	2	No	14	0.03236	0.008048	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.01623	0.01484	2	No	15	0.01553	0.00103	0	None	No	0.01	Param.
Beryllium (mg/L)	B-100	0.0006113	0.0002587	0.004	No	4	0.000435	0.00007767	0	None	No	0.01	Param.
Beryllium (mg/L)	B-102D	0.001543	0.0009569	0.004	No	4	0.00125	0.0001291	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.001785	0.0009153	0.004	No	4	0.00135	0.0001915	0	None	No	0.01	Param.
Beryllium (mg/L)	B-56	0.001385	0.001015	0.004	No	4	0.0012	0.00008165	0	None	No	0.01	Param.
Beryllium (mg/L)	B-62	0.0005	0.000078	0.004	No	8	0.0002085	0.000181	25	None	No	0.004	NP (normality)
Beryllium (mg/L)	B-63	0.0004803	0.0003037	0.004	No	6	0.00041	0.00007797	16.67	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	B-77	0.0001464	0.00004658	0.004	No	6	0.0002267	0.0002142	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Beryllium (mg/L)	B-82	0.001807	0.001073	0.004	No	5	0.00144	0.0002191	0	None	No	0.01	Param.
Beryllium (mg/L)	B-83	0.0006999	0.0001718	0.004	No	5	0.000404	0.000173	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	B-88	0.005	0.00063	0.004	No	4	0.002008	0.00202	0	None	No	0.0625	NP (selected)
<b>Beryllium (mg/L)</b>	<b>B-93</b>	<b>0.01805</b>	<b>0.006467</b>	<b>0.004</b>	<b>Yes</b>	<b>5</b>	<b>0.01378</b>	<b>0.003942</b>	<b>0</b>	<b>None</b>	<b>x^3</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	B-97	0.0019	0.0015	0.004	No	4	0.001725	0.0002062	25	None	No	0.0625	NP (selected)
Beryllium (mg/L)	B-98	0.00087	0.0005	0.004	No	4	0.0005925	0.000185	75	None	No	0.0625	NP (NDs)
<b>Beryllium (mg/L)</b>	<b>DGWC-10</b>	<b>0.009208</b>	<b>0.005678</b>	<b>0.004</b>	<b>Yes</b>	<b>14</b>	<b>0.007443</b>	<b>0.002492</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	DGWC-11	0.003	0.00013	0.004	No	14	0.0004964	0.0007432	50	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00049	0.00011	0.004	No	16	0.0003943	0.0007051	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No	14	0.0005256	0.000742	64.29	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	15	0.0006185	0.0006715	86.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.0006188	0.0005265	0.004	No	15	0.0005727	0.00006808	13.33	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-19	0.0021	0.0017	0.004	No	15	0.001907	0.0004978	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-20	0.004866	0.002215	0.004	No	15	0.003673	0.002056	13.33	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0005	0.0001	0.004	No	15	0.000374	0.0007325	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.0005	0.00014	0.004	No	15	0.000376	0.0007316	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	15	0.000618	0.0006665	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00028	0.00019	0.004	No	14	0.0004279	0.0007463	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002738	0.002049	0.004	No	15	0.002333	0.0006576	6.667	None	x^2	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>DGWC-47</b>	<b>0.01281</b>	<b>0.009018</b>	<b>0.004</b>	<b>Yes</b>	<b>15</b>	<b>0.01091</b>	<b>0.002797</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>

# Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
<b>Beryllium (mg/L)</b>	<b>DGWC-48</b>	<b>0.009234</b>	<b>0.007526</b>	<b>0.004</b>	<b>Yes 15</b>	<b>0.00838</b>	<b>0.00126</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Beryllium (mg/L)</b>	<b>DGWC-5</b>	<b>0.008688</b>	<b>0.006197</b>	<b>0.004</b>	<b>Yes 14</b>	<b>0.007443</b>	<b>0.001758</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	DGWC-8	0.003201	0.001685	0.004	No 14	0.002443	0.00107	7.143	None	No	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>DGWC-9</b>	<b>0.005896</b>	<b>0.004931</b>	<b>0.004</b>	<b>Yes 15</b>	<b>0.005413</b>	<b>0.000712</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cadmium (mg/L)	B-100	0.00059	0.00027	0.005	No 4	0.000355	0.000157	0	None	No	0.0625	NP (normality)
Cadmium (mg/L)	B-102D	0.0009243	0.0006021	0.005	No 4	0.0007775	0.00007274	0	None	x^2	0.01	Param.
Cadmium (mg/L)	B-56	0.0003178	0.0002172	0.005	No 4	0.0002675	0.00002217	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0003199	0.00007013	0.005	No 4	0.0003475	0.0001817	50	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	B-82	0.0007939	0.0002981	0.005	No 5	0.000546	0.0001479	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0004307	0.0002333	0.005	No 5	0.000332	0.00005891	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.008758	-0.003848	0.005	No 4	0.002455	0.002776	0	None	No	0.01	Param.
Cadmium (mg/L)	B-93	0.0009316	0.0006384	0.005	No 4	0.000785	0.00006455	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001207	0.0008102	0.005	No 14	0.001009	0.0002801	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00016	0.005	No 14	0.0004221	0.0001549	78.57	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003426	0.0002257	0.005	No 16	0.0003944	0.0001917	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No 14	0.0004486	0.0001328	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00012	0.005	No 15	0.0004287	0.0002377	73.33	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.00033	0.00023	0.005	No 15	0.0002987	0.00009062	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.0005	0.00034	0.005	No 15	0.0004207	0.0001665	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.0002846	0.0001314	0.005	No 15	0.0003667	0.0002335	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-20	0.002238	0.001722	0.005	No 15	0.00198	0.0003802	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.0007418	0.0004675	0.005	No 15	0.0006047	0.0002024	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0007017	0.0004543	0.005	No 15	0.000578	0.0001826	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0003	0.00019	0.005	No 15	0.0002967	0.0002115	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.0008282	0.0006103	0.005	No 14	0.0007193	0.0001538	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.001109	0.0004679	0.005	No 15	0.0008233	0.0005572	13.33	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.002181	0.001246	0.005	No 15	0.001713	0.0006896	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.0042	0.0025	0.005	No 15	0.003527	0.001682	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-5	0.0008175	0.0004382	0.005	No 14	0.0006279	0.0002677	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002516	0.00197	0.005	No 14	0.002243	0.0003857	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006732	0.0005032	0.005	No 15	0.0005927	0.0001373	13.33	None	x^(1/3)	0.01	Param.
Chromium (mg/L)	B-100	0.001223	0.0003828	0.1	No 4	0.002877	0.002456	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	B-104D	0.005	0.0011	0.1	No 4	0.004025	0.00195	75	Kaplan-Meier	No	0.0625	NP (NDs)
Chromium (mg/L)	B-56	0.001914	0.00007551	0.1	No 4	0.002997	0.002336	50	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	B-62	0.005	0.00098	0.1	No 7	0.004426	0.001519	85.71	Kaplan-Meier	No	0.008	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.00064	0.1	No 4	0.00391	0.00218	75	Kaplan-Meier	No	0.0625	NP (NDs)
Chromium (mg/L)	B-77	0.001858	0.0005328	0.1	No 6	0.00241	0.002072	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	B-82	0.005	0.0011	0.1	No 5	0.00422	0.001744	80	Kaplan-Meier	No	0.031	NP (NDs)
Chromium (mg/L)	B-83	0.0051	0.0017	0.1	No 5	0.00394	0.001524	0	None	No	0.031	NP (selected)
Chromium (mg/L)	B-88	0.002116	0.0005176	0.1	No 4	0.002237	0.001875	25	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	B-93	0.005	0.00057	0.1	No 4	0.002807	0.002532	50	None	No	0.0625	NP (normality)
Chromium (mg/L)	DGWC-10	0.005	0.00078	0.1	No 14	0.002321	0.002074	35.71	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.0006	0.1	No 14	0.003742	0.002064	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No 16	0.004496	0.001378	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.005	0.00074	0.1	No 14	0.003778	0.002006	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.00058	0.1	No 15	0.004423	0.002397	73.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0035	0.0024	0.1	No 15	0.003047	0.0008651	13.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.005	0.0023	0.1	No 15	0.00342	0.002022	20	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.0005	0.1	No 15	0.003211	0.002268	60	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.002136	0.001443	0.1	No 15	0.003467	0.002385	40	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	DGWC-21	0.005	0.0005	0.1	No 15	0.00333	0.002148	60	Kaplan-Meier	No	0.01	NP (NDs)

# Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	15	0.004747	0.0009812	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0005	0.1	No	15	0.002187	0.002075	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	14	0.004679	0.001203	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.0005	0.1	No	15	0.003082	0.002157	53.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	15	0.004713	0.00111	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	15	0.004407	0.001567	86.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	14	0.004675	0.001216	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.005	0.00086	0.1	No	14	0.003391	0.002002	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.0057	0.00059	0.1	No	15	0.003593	0.002173	60	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.087	0.029	0.032	No	6	0.058	0.02804	0	None	No	0.0155	NP (selected)
Cobalt (mg/L)	B-102D	0.01585	0.01215	0.032	No	4	0.014	0.0008165	0	None	No	0.01	Param.
Cobalt (mg/L)	B-104D	0.2361	-0.01451	0.032	No	4	0.1625	0.04272	0	None	x^2	0.01	Param.
Cobalt (mg/L)	B-111D	0.0009228	0.0004439	0.032	No	4	0.00112	0.0009256	25	Kaplan-Meier	x^(1/3)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>B-56</b>	<b>0.05421</b>	<b>0.03629</b>	<b>0.032</b>	<b>Yes</b>	<b>4</b>	<b>0.04525</b>	<b>0.003948</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-62	0.0025	0.0003	0.032	No	7	0.001873	0.001071	71.43	None	No	0.008	NP (NDs)
<b>Cobalt (mg/L)</b>	<b>B-63</b>	<b>0.0547</b>	<b>0.0353</b>	<b>0.032</b>	<b>Yes</b>	<b>5</b>	<b>0.045</b>	<b>0.005788</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-66	0.01241	0.003754	0.032	No	5	0.00758	0.003665	20	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-77	0.0031	0.0004	0.032	No	6	0.001817	0.0009725	16.67	None	No	0.0155	NP (selected)
Cobalt (mg/L)	B-82	0.007804	0.0003291	0.032	No	6	0.004067	0.002721	0	None	No	0.01	Param.
Cobalt (mg/L)	B-83	0.021	0.0073	0.032	No	5	0.01344	0.005791	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-88	0.022	0.0015	0.032	No	5	0.00928	0.009906	0	None	No	0.031	NP (selected)
<b>Cobalt (mg/L)</b>	<b>B-93</b>	<b>0.069</b>	<b>0.0594</b>	<b>0.032</b>	<b>Yes</b>	<b>5</b>	<b>0.0642</b>	<b>0.002864</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-10</b>	<b>0.1888</b>	<b>0.1413</b>	<b>0.032</b>	<b>Yes</b>	<b>14</b>	<b>0.1537</b>	<b>0.04866</b>	<b>0</b>	<b>None</b>	<b>x^4</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-11	0.0025	0.0006	0.032	No	14	0.001481	0.0009221	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.013	0.0021	0.032	No	16	0.008125	0.009711	12.5	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-13	0.0025	0.0005	0.032	No	14	0.002056	0.0008832	78.57	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0028	0.0016	0.032	No	15	0.003653	0.005947	6.667	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02716	0.02022	0.032	No	15	0.02313	0.00641	6.667	None	x^2	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-19</b>	<b>0.05331</b>	<b>0.04925</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.05128</b>	<b>0.002996</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-2	0.0284	0.0062	0.032	No	15	0.01761	0.01155	0	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>DGWC-20</b>	<b>0.6394</b>	<b>0.4659</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.5575</b>	<b>0.1355</b>	<b>0</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-21	0.009773	0.008552	0.032	No	15	0.00862	0.002141	13.33	None	x^6	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009945	0.007492	0.032	No	15	0.008533	0.002244	13.33	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.005	0.00039	0.032	No	15	0.00183	0.001357	60	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-4	0.0021	0.0015	0.032	No	14	0.002021	0.000904	14.29	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.04451	0.01723	0.032	No	15	0.03087	0.02013	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-47</b>	<b>0.3858</b>	<b>0.253</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.3194</b>	<b>0.09792</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-48</b>	<b>0.5073</b>	<b>0.402</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.4547</b>	<b>0.07771</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-5	0.04	0.02	0.032	No	14	0.02794	0.01109	0	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>DGWC-8</b>	<b>0.0878</b>	<b>0.04412</b>	<b>0.032</b>	<b>Yes</b>	<b>14</b>	<b>0.06596</b>	<b>0.03083</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-9</b>	<b>0.201</b>	<b>0.1437</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.1724</b>	<b>0.04231</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Combined Radium 226 + 228 (pCi/L)	B-100	1.4	0.168	5.61	No	4	0.7853	0.5031	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-102D	1.74	0.635	5.61	No	4	1.096	0.4956	0	None	No	0.0625	NP (selected)
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>B-104D</b>	<b>21.26</b>	<b>6.892</b>	<b>5.61</b>	<b>Yes</b>	<b>4</b>	<b>14.08</b>	<b>3.164</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Combined Radium 226 + 228 (pCi/L)	B-111D	16.31	1.377	5.61	No	4	8.843	3.288	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-56	1.617	0.5846	5.61	No	4	1.101	0.2275	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	2.02	1.173	5.61	No	6	1.597	0.3082	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-77	2.17	0.617	5.61	No	5	1.516	0.7658	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-82	1.18	0.3541	5.61	No	4	0.7673	0.182	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-83	1.15	0.0359	5.61	No	5	0.674	0.4409	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-88	2.84	0.771	5.61	No	4	1.752	1.056	0	None	No	0.0625	NP (selected)

# Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	B-93	2.371	0.3074	5.61	No 4	1.339	0.4544	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.497	1.071	5.61	No 15	1.284	0.314	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.272	0.6667	5.61	No 15	0.9694	0.4467	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.27	0.4013	5.61	No 15	0.8984	0.714	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.484	1.036	5.61	No 15	1.26	0.3303	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.103	0.6919	5.61	No 15	0.8972	0.303	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.553	0.551	5.61	No 15	1.118	0.8748	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	1.05	0.5723	5.61	No 15	0.8113	0.3526	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	1.04	0.5062	5.61	No 15	0.7733	0.3942	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.444	0.8924	5.61	No 15	1.168	0.4067	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.543	0.8767	5.61	No 15	1.21	0.4913	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.125	0.5866	5.61	No 15	0.8557	0.3972	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.364	0.733	5.61	No 15	1.049	0.4659	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.489	0.7765	5.61	No 15	1.133	0.5259	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.721	1.187	5.61	No 15	1.454	0.3939	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.169	0.7309	5.61	No 15	0.9499	0.3231	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	2.903	1.785	5.61	No 15	2.344	0.8249	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.415	1.602	5.61	No 15	2.03	0.6435	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.839	1.024	5.61	No 15	1.431	0.6015	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.841	0.4794	5.61	No 15	0.6602	0.2668	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.439	0.9531	5.61	No 15	1.196	0.3583	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-102D	0.11	0.077	4	No 4	0.08725	0.01537	0	None	No	0.0625	NP (normality)
Fluoride, total (mg/L)	B-104D	0.5774	0.2326	4	No 4	0.405	0.07594	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-111D	0.7199	0.1451	4	No 4	0.4325	0.1266	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-56	0.34	0.098	4	No 4	0.207	0.09985	0	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-62	0.3546	0.06003	4	No 6	0.1855	0.1295	0	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	B-77	0.1	0.078	4	No 5	0.0948	0.00955	60	None	No	0.031	NP (NDs)
Fluoride, total (mg/L)	B-82	0.2	0.052	4	No 4	0.113	0.06226	50	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-83	0.1232	0.02857	4	No 5	0.0834	0.0317	20	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	B-93	0.3685	0.2815	4	No 4	0.325	0.01915	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-10	1.862	1.347	4	No 16	1.604	0.3955	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-11	0.1	0.052	4	No 15	0.0804	0.0261	60	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-12	0.1641	0.05529	4	No 16	0.1588	0.1448	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-13	0.2134	0.08589	4	No 15	0.157	0.1093	6.667	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-14	0.1	0.052	4	No 16	0.08588	0.02643	68.75	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-15	0.11	0.079	4	No 16	0.1054	0.04361	62.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-17	0.2722	0.09774	4	No 16	0.2039	0.1552	12.5	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-19	0.5135	0.1749	4	No 16	0.3713	0.313	6.25	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-2	0.28	0.052	4	No 16	0.1429	0.1586	37.5	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-20	0.9494	0.4006	4	No 16	0.675	0.4218	6.25	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-21	0.14	0.07	4	No 16	0.107	0.06664	62.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-22	0.13	0.09	4	No 16	0.1185	0.06532	50	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-23	0.2262	0.09243	4	No 16	0.1852	0.1558	6.25	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-4	0.17	0.082	4	No 16	0.1364	0.1776	68.75	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-42	0.1	0.06	4	No 16	0.0925	0.02176	87.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-47	1.146	0.5167	4	No 16	0.8313	0.4835	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-48	1.19	0.6114	4	No 16	0.9006	0.4445	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-5	0.7808	0.2378	4	No 15	0.5667	0.4567	6.667	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-8	0.4095	0.1193	4	No 15	0.2868	0.2338	13.33	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-9	1.391	0.9657	4	No 16	1.178	0.3265	0	None	No	0.01	Param.
Lead (mg/L)	B-100	0.0003036	0.00005528	0.015	No 4	0.0003695	0.0004235	25	Kaplan-Meier	sqrt(x)	0.01	Param.

# Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	B-102D	0.001	0.000037	0.015	No	4	0.0002865	0.0004758	25	None	No	0.0625	NP (normality)
Lead (mg/L)	B-104D	0.001	0.000051	0.015	No	4	0.0007628	0.0004745	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000051	0.015	No	4	0.0005273	0.0005459	50	None	No	0.0625	NP (normality)
Lead (mg/L)	B-56	0.0002854	0.00003627	0.015	No	4	0.0003528	0.0004355	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	B-63	0.001	0.000047	0.015	No	4	0.00053	0.0005428	50	None	No	0.0625	NP (normality)
Lead (mg/L)	B-77	0.0016	0.00021	0.015	No	6	0.0007367	0.000554	33.33	None	No	0.0155	NP (selected)
Lead (mg/L)	B-82	0.0001911	0.00004858	0.015	No	5	0.0004658	0.000489	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	B-83	0.001	0.000065	0.015	No	5	0.000455	0.0004634	20	None	No	0.031	NP (selected)
Lead (mg/L)	B-88	0.02767	0.00004865	0.015	No	4	0.00354	0.005647	25	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	B-93	0.001	0.00012	0.015	No	4	0.00056	0.0005081	50	None	No	0.0625	NP (normality)
Lead (mg/L)	DGWC-10	0.001	0.00011	0.015	No	14	0.0006273	0.0004481	57.14	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.0001	0.015	No	14	0.0006785	0.0004481	64.29	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.001	0.00011	0.015	No	16	0.0008881	0.0003057	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.015	No	14	0.0008784	0.0003097	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.015	No	15	0.0008149	0.0003834	80	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.0012	0.0001	0.015	No	15	0.0007161	0.0004487	60	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.00009	0.015	No	15	0.0005862	0.0004585	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00007	0.015	No	15	0.0007059	0.0004334	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.000086	0.015	No	15	0.0005156	0.0004693	46.67	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-20	0.001	0.00015	0.015	No	15	0.0007311	0.0003691	60	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.00014	0.015	No	15	0.0006177	0.0004296	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.015	No	15	0.0009377	0.0002412	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.00012	0.015	No	14	0.0007478	0.0004149	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0004678	0.0001549	0.015	No	15	0.0008147	0.001228	20	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.0011	0.00053	0.015	No	15	0.001081	0.001106	26.67	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.0022	0.00095	0.015	No	15	0.001664	0.001169	13.33	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.001	0.000051	0.015	No	14	0.0005984	0.0006777	35.71	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.001	0.00011	0.015	No	14	0.0006273	0.0004132	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-9	0.001	0.00028	0.015	No	15	0.00084	0.0003323	80	None	No	0.01	NP (NDs)
Lithium (mg/L)	B-100	0.003519	0.0007815	0.04	No	4	0.00215	0.0006028	0	None	No	0.01	Param.
Lithium (mg/L)	B-102D	0.01666	0.009844	0.04	No	4	0.01325	0.0015	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.04121	0.03479	0.04	No	4	0.038	0.001414	0	None	No	0.01	Param.
Lithium (mg/L)	B-111D	0.029	0.021	0.04	No	4	0.02475	0.004349	0	None	No	0.0625	NP (selected)
Lithium (mg/L)	B-56	0.005968	0.004632	0.04	No	4	0.0053	0.0002944	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.015	0.0078	0.04	No	7	0.0094	0.002532	14.29	None	No	0.008	NP (normality)
Lithium (mg/L)	B-63	0.015	0.0062	0.04	No	5	0.00812	0.003849	20	None	No	0.031	NP (normality)
Lithium (mg/L)	B-77	0.015	0.00095	0.04	No	6	0.004525	0.005339	16.67	None	No	0.0155	NP (selected)
Lithium (mg/L)	B-82	0.0039	0.001	0.04	No	5	0.00222	0.001422	0	None	No	0.031	NP (selected)
Lithium (mg/L)	B-83	0.004551	0.0009685	0.04	No	5	0.00276	0.001069	0	None	No	0.01	Param.
Lithium (mg/L)	B-88	0.029	0.0016	0.04	No	4	0.009575	0.01311	0	None	No	0.0625	NP (selected)
Lithium (mg/L)	B-93	0.012	0.011	0.04	No	4	0.01125	0.0005	0	None	No	0.0625	NP (normality)
Lithium (mg/L)	DGWC-10	0.006793	0.002702	0.04	No	14	0.005343	0.004279	14.29	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.04	No	14	0.003186	0.003418	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.0011	0.04	No	16	0.01064	0.006685	68.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.0036	0.0029	0.04	No	14	0.004879	0.004297	14.29	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0032	0.04	No	15	0.00472	0.003078	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0066	0.0058	0.04	No	14	0.00625	0.0008465	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.00096	0.04	No	15	0.009434	0.007057	60	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0035	0.003	0.04	No	15	0.003993	0.003053	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.085	0.023	0.04	No	15	0.04906	0.03031	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.04	No	15	0.006407	0.005611	6.667	None	No	0.01	NP (normality)

# Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	DGWC-21	0.0065	0.0057	0.04	No	15	0.00656	0.00236	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0046	0.0037	0.04	No	15	0.00484	0.002836	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.01279	0.003816	0.04	No	15	0.01165	0.01832	6.667	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-4	0.0035	0.0025	0.04	No	14	0.003786	0.003256	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01268	0.01007	0.04	No	15	0.01137	0.001928	6.667	None	No	0.01	Param.
<b>Lithium (mg/L)</b>	<b>DGWC-47</b>	<b>0.07457</b>	<b>0.05787</b>	<b>0.04</b>	<b>Yes</b>	<b>15</b>	<b>0.06622</b>	<b>0.01232</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>DGWC-48</b>	<b>0.1269</b>	<b>0.106</b>	<b>0.04</b>	<b>Yes</b>	<b>15</b>	<b>0.1165</b>	<b>0.01544</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	DGWC-5	0.008199	0.004206	0.04	No	14	0.006343	0.003062	7.143	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	DGWC-8	0.0072	0.0045	0.04	No	14	0.006036	0.002823	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-9	0.02931	0.02328	0.04	No	15	0.02629	0.004445	6.667	None	No	0.01	Param.
Mercury (mg/L)	B-104D	0.0002	0.000079	0.002	No	4	0.0001697	0.0000605	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.000094	0.002	No	4	0.0001735	0.000053	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-56	0.0002	0.00016	0.002	No	4	0.00019	0.00002	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No	5	0.000182	0.00004025	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.0001	0.002	No	4	0.0001525	0.000055	50	None	No	0.0625	NP (normality)
Mercury (mg/L)	B-93	0.00036	0.00001396	0.002	No	4	0.000187	0.00007622	0	None	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0002	0.000081	0.002	No	14	0.0001658	0.00005628	71.43	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.0002	0.00008	0.002	No	14	0.0001707	0.0000585	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00008	0.002	No	16	0.0001541	0.00006456	62.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	14	0.0001829	0.00004375	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	15	0.0001727	0.00005688	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	15	0.0001907	0.00003615	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.00006	0.002	No	15	0.0001404	0.00006361	46.67	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-19	0.0002	0.00009	0.002	No	15	0.000172	0.00005882	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	15	0.0002049	0.0001304	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	15	0.0001767	0.00004835	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00006	0.002	No	15	0.000158	0.00006327	66.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.0001	0.002	No	15	0.0001677	0.00005729	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0002053	0.0001241	0.002	No	15	0.0001853	0.0000573	26.67	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-4	0.00059	0.00013	0.002	No	14	0.0002059	0.0001192	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	15	0.0001893	0.00004131	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	15	0.0001907	0.00003615	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002402	0.0001202	0.002	No	14	0.0001924	0.0001175	14.29	None	ln(x)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.000079	0.002	No	14	0.0001494	0.00006312	57.14	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.00021	0.00013	0.002	No	15	0.0001881	0.00008736	46.67	None	No	0.01	NP (normality)
Molybdenum (mg/L)	B-104D	0.01	0.0012	0.1	No	4	0.0078	0.0044	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	B-111D	0.01817	0.002799	0.1	No	4	0.00765	0.003615	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	B-66	0.01	0.0015	0.1	No	4	0.005825	0.004822	50	None	No	0.0625	NP (normality)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.1	No	4	0.0056	0.005081	50	None	No	0.0625	NP (normality)
Molybdenum (mg/L)	DGWC-13	0.0262	0.01302	0.1	No	14	0.01961	0.009301	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.0018	0.1	No	15	0.005093	0.004167	40	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01117	0.00682	0.1	No	15	0.008993	0.003208	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.007258	0.004757	0.1	No	14	0.006007	0.001765	7.143	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.0019	0.05	No	4	0.004225	0.00155	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-104D	0.004053	0.0006472	0.05	No	4	0.003675	0.001648	50	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	B-111D	0.005	0.0022	0.05	No	4	0.0043	0.0014	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-56	0.029	0.011	0.05	No	4	0.016	0.008718	0	None	No	0.0625	NP (normality)
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No	6	0.00445	0.001347	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0016	0.05	No	5	0.00374	0.001734	60	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-83	0.02981	0.006668	0.05	No	5	0.01824	0.006906	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.004472	0.0007278	0.05	No	4	0.0026	0.0008246	0	None	No	0.01	Param.

# Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	B-93	0.036	0.0076	0.05	No	4	0.01788	0.01288	0	None	No	0.0625	NP (selected)
Selenium (mg/L)	DGWC-10	0.05289	0.02215	0.05	No	14	0.03752	0.0217	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0017	0.05	No	16	0.003931	0.002266	56.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004442	0.0019	0.05	No	14	0.004307	0.00244	21.43	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-14	0.01	0.0017	0.05	No	15	0.004227	0.002257	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	15	0.00512	0.001582	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.009189	0.006423	0.05	No	15	0.007953	0.002359	13.33	None	ln(x)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.008946	0.005774	0.05	No	15	0.00736	0.00234	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0053	0.0045	0.05	No	15	0.005193	0.001557	46.67	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06742	0.0338	0.05	No	15	0.05061	0.02481	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	15	0.00478	0.0008521	93.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	14	0.004743	0.0009621	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01301	0.005259	0.05	No	15	0.009133	0.005718	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.008046	0.003594	0.05	No	15	0.00582	0.003285	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.0457	0.00964	0.05	No	14	0.03263	0.04214	7.143	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.00408	0.002153	0.05	No	14	0.004586	0.002144	50	Kaplan-Meier	sqrt(x)	0.01	Param.
<b>Selenium (mg/L)</b>	<b>DGWC-9</b>	<b>0.1308</b>	<b>0.05207</b>	<b>0.05</b>	<b>Yes</b>	<b>15</b>	<b>0.09144</b>	<b>0.0581</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Thallium (mg/L)	B-56	0.0003212	0.0001238	0.002	No	4	0.0002225	0.00004349	0	None	No	0.01	Param.
Thallium (mg/L)	B-82	0.001	0.000099	0.002	No	5	0.0006418	0.0004905	60	None	No	0.031	NP (NDs)
Thallium (mg/L)	B-83	0.001	0.000072	0.002	No	5	0.0008144	0.000415	80	None	No	0.031	NP (NDs)
Thallium (mg/L)	B-88	0.001	0.0002	0.002	No	4	0.0008	0.0004	75	None	No	0.0625	NP (NDs)
Thallium (mg/L)	DGWC-10	0.0006	0.00036	0.002	No	14	0.0004907	0.0002285	14.29	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.00009	0.002	No	16	0.0006042	0.0004636	56.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00017	0.002	No	15	0.000398	0.0003761	26.67	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.00059	0.00049	0.002	No	15	0.000544	0.0001384	6.667	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.000988	0.0005219	0.002	No	15	0.000942	0.0004995	26.67	Kaplan-Meier	ln(x)	0.01	Param.
Thallium (mg/L)	DGWC-22	0.001	0.000064	0.002	No	15	0.0006889	0.0004554	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	14	0.0009338	0.0002478	92.86	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00009	0.002	No	15	0.0007559	0.000419	73.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00036	0.0002	0.002	No	15	0.0003513	0.0002684	13.33	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.00008	0.002	No	15	0.0006937	0.0004484	66.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.0002	0.002	No	14	0.00081	0.0003787	78.57	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	14	0.0003886	0.0003356	21.43	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.001	0.00043	0.002	No	15	0.0007027	0.0002443	33.33	None	No	0.01	NP (normality)



# State Confidence Intervals - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.03003	0.0172	0.01	Yes	15	0.02361	0.009468	6.667	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009208	0.005678	0.004	Yes	14	0.007443	0.002492	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01281	0.009018	0.004	Yes	15	0.01091	0.002797	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009234	0.007526	0.004	Yes	15	0.00838	0.00126	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008688	0.006197	0.004	Yes	14	0.007443	0.001758	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005896	0.004931	0.004	Yes	15	0.005413	0.000712	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.01805	0.006467	0.004	Yes	5	0.01378	0.003942	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.1888	0.1413	0.032	Yes	14	0.1537	0.04866	0	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05331	0.04925	0.032	Yes	15	0.05128	0.002996	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6394	0.4659	0.032	Yes	15	0.5575	0.1355	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3858	0.253	0.032	Yes	15	0.3194	0.09792	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5073	0.402	0.032	Yes	15	0.4547	0.07771	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.0878	0.04412	0.032	Yes	14	0.06596	0.03083	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.201	0.1437	0.032	Yes	15	0.1724	0.04231	0	None	No	0.01	Param.
Cobalt (mg/L)	B-56	0.05421	0.03629	0.032	Yes	4	0.04525	0.003948	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.0547	0.0353	0.032	Yes	5	0.045	0.005788	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.069	0.0594	0.032	Yes	5	0.0642	0.002864	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-104D	21.26	6.892	5.61	Yes	4	14.08	3.164	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07457	0.05787	0.03	Yes	15	0.06622	0.01232	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1269	0.106	0.03	Yes	15	0.1165	0.01544	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.04121	0.03479	0.03	Yes	4	0.038	0.001414	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-9	0.1308	0.05207	0.05	Yes	15	0.09144	0.0581	0	None	No	0.01	Param.

# State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	B-100	0.001954	0.001046	0.006	No	4	0.00225	0.0008813	50	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	B-102D	0.003	0.0016	0.006	No	4	0.00265	0.0007	75	Kaplan-Meier	No	0.0625	NP (NDs)
Antimony (mg/L)	B-104D	0.001068	0.0003847	0.006	No	4	0.00126	0.001169	25	Kaplan-Meier	x^(1/3)	0.01	Param.
Antimony (mg/L)	B-111D	0.003	0.0006	0.006	No	4	0.0024	0.0012	75	Kaplan-Meier	No	0.0625	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.00046	0.006	No	7	0.002637	0.00096	85.71	Kaplan-Meier	No	0.008	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.00066	0.006	No	4	0.002415	0.00117	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00036	0.006	No	6	0.001737	0.001387	50	None	No	0.0155	NP (normality)
Antimony (mg/L)	B-93	0.003	0.0014	0.006	No	4	0.0026	0.0008	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	16	0.002831	0.000675	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	15	0.002873	0.0004906	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	15	0.002671	0.0008724	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	15	0.00283	0.0006584	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.00036	0.006	No	15	0.002824	0.0006816	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	15	0.00284	0.0006197	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	15	0.002847	0.0005939	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No	14	0.002491	0.001014	78.57	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No	15	0.00288	0.0004648	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	15	0.002746	0.0007213	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	14	0.002701	0.0007935	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.00046	0.006	No	14	0.002819	0.0006788	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-104D	0.002881	0.001519	0.01	No	4	0.0036	0.001635	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-111D	0.003281	0.001919	0.01	No	4	0.0038	0.001407	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-56	0.0047	0.003	0.01	No	4	0.0035	0.0008042	0	None	No	0.0625	NP (normality)
Arsenic (mg/L)	B-77	0.002882	0.001869	0.01	No	6	0.003233	0.001409	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	B-93	0.003589	0.0004108	0.01	No	4	0.0035	0.001824	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-10	0.00717	0.003601	0.01	No	14	0.005386	0.002519	7.143	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	16	0.004452	0.001498	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	15	0.004693	0.00119	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	15	0.004169	0.001726	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0008	0.01	No	15	0.003395	0.002042	60	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.002035	0.0009847	0.01	No	15	0.002317	0.001551	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No	15	0.004566	0.00118	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01666	0.007499	0.01	No	15	0.01208	0.006761	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No	15	0.004733	0.001033	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0008	0.01	No	14	0.004057	0.001875	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	15	0.004453	0.001445	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.002647	0.001328	0.01	No	15	0.002627	0.001504	20	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.0008	0.01	No	15	0.003206	0.002005	53.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.0118	0.002817	0.01	No	14	0.008443	0.009971	14.29	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.005	0.0012	0.01	No	14	0.00369	0.001839	64.29	None	No	0.01	NP (NDs)
<b>Arsenic (mg/L)</b>	<b>DGWC-9</b>	<b>0.03003</b>	<b>0.0172</b>	<b>0.01</b>	<b>Yes</b>	<b>15</b>	<b>0.02361</b>	<b>0.009468</b>	<b>6.667</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Barium (mg/L)	B-100	0.022	0.015	2	No	4	0.02	0.003367	0	None	No	0.0625	NP (selected)
Barium (mg/L)	B-102D	0.02571	0.01829	2	No	4	0.022	0.001633	0	None	No	0.01	Param.
Barium (mg/L)	B-104D	0.026	0.021	2	No	4	0.0225	0.00238	0	None	No	0.0625	NP (normality)
Barium (mg/L)	B-111D	0.05204	0.01546	2	No	4	0.03375	0.008057	0	None	No	0.01	Param.
Barium (mg/L)	B-56	0.03185	0.02315	2	No	4	0.0275	0.001915	0	None	No	0.01	Param.
Barium (mg/L)	B-62	0.02758	0.01985	2	No	7	0.02371	0.003251	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.03208	0.01592	2	No	4	0.024	0.003559	0	None	No	0.01	Param.
Barium (mg/L)	B-66	0.01942	0.01508	2	No	4	0.01725	0.0009574	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.1255	0.08983	2	No	6	0.1077	0.01299	0	None	No	0.01	Param.

# State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	B-82	0.03301	0.01899	2	No	5	0.026	0.004183	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.05537	0.02029	2	No	5	0.0358	0.01158	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	B-88	0.02418	-0.01405	2	No	4	0.02025	0.002872	0	None	x^5	0.01	Param.
Barium (mg/L)	B-93	0.01892	0.01458	2	No	4	0.01675	0.0009574	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.02962	0.02305	2	No	14	0.02634	0.004637	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06644	0.05633	2	No	14	0.06139	0.007138	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03199	0.02415	2	No	16	0.02824	0.006231	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03292	0.02732	2	No	14	0.02908	0.007369	7.143	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06261	0.05787	2	No	15	0.06024	0.003493	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.05073	0.0443	2	No	15	0.04751	0.004744	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05635	0.04167	2	No	15	0.04901	0.01083	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02541	0.02177	2	No	15	0.02359	0.002686	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02268	0.02132	2	No	15	0.022	0.001	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01537	0.009179	2	No	15	0.01227	0.004566	6.667	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.024	2	No	15	0.02596	0.001505	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03773	0.03193	2	No	15	0.03483	0.004281	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.0236	0.01844	2	No	15	0.02113	0.004092	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03617	0.0322	2	No	14	0.03419	0.002802	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.0205	0.01622	2	No	15	0.01836	0.003153	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-47	0.01975	0.01597	2	No	15	0.01786	0.002794	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.01436	0.01298	2	No	15	0.01367	0.001016	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-5	0.01834	0.01649	2	No	13	0.01742	0.001247	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03806	0.02666	2	No	14	0.03236	0.008048	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.01623	0.01484	2	No	15	0.01553	0.00103	0	None	No	0.01	Param.
Beryllium (mg/L)	B-100	0.0006113	0.0002587	0.004	No	4	0.000435	0.00007767	0	None	No	0.01	Param.
Beryllium (mg/L)	B-102D	0.001543	0.0009569	0.004	No	4	0.00125	0.0001291	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.001785	0.0009153	0.004	No	4	0.00135	0.0001915	0	None	No	0.01	Param.
Beryllium (mg/L)	B-56	0.001385	0.001015	0.004	No	4	0.0012	0.00008165	0	None	No	0.01	Param.
Beryllium (mg/L)	B-62	0.0005	0.000078	0.004	No	8	0.0002085	0.000181	25	None	No	0.004	NP (normality)
Beryllium (mg/L)	B-63	0.0004803	0.0003037	0.004	No	6	0.00041	0.00007797	16.67	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	B-77	0.0001464	0.00004658	0.004	No	6	0.0002267	0.0002142	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Beryllium (mg/L)	B-82	0.001807	0.001073	0.004	No	5	0.00144	0.0002191	0	None	No	0.01	Param.
Beryllium (mg/L)	B-83	0.0006999	0.0001718	0.004	No	5	0.000404	0.000173	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	B-88	0.005	0.00063	0.004	No	4	0.002008	0.00202	0	None	No	0.0625	NP (selected)
<b>Beryllium (mg/L)</b>	<b>B-93</b>	<b>0.01805</b>	<b>0.006467</b>	<b>0.004</b>	<b>Yes</b>	<b>5</b>	<b>0.01378</b>	<b>0.003942</b>	<b>0</b>	<b>None</b>	<b>x^3</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	B-97	0.0019	0.0015	0.004	No	4	0.001725	0.0002062	25	None	No	0.0625	NP (selected)
Beryllium (mg/L)	B-98	0.00087	0.0005	0.004	No	4	0.0005925	0.000185	75	None	No	0.0625	NP (NDs)
<b>Beryllium (mg/L)</b>	<b>DGWC-10</b>	<b>0.009208</b>	<b>0.005678</b>	<b>0.004</b>	<b>Yes</b>	<b>14</b>	<b>0.007443</b>	<b>0.002492</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	DGWC-11	0.003	0.00013	0.004	No	14	0.0004964	0.0007432	50	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00049	0.00011	0.004	No	16	0.0003943	0.0007051	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No	14	0.0005256	0.000742	64.29	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	15	0.0006185	0.0006715	86.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.0006188	0.0005265	0.004	No	15	0.0005727	0.00006808	13.33	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-19	0.0021	0.0017	0.004	No	15	0.001907	0.0004978	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-20	0.004866	0.002215	0.004	No	15	0.003673	0.002056	13.33	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0005	0.0001	0.004	No	15	0.000374	0.0007325	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.0005	0.00014	0.004	No	15	0.000376	0.0007316	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	15	0.000618	0.0006665	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00028	0.00019	0.004	No	14	0.0004279	0.0007463	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002738	0.002049	0.004	No	15	0.002333	0.0006576	6.667	None	x^2	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>DGWC-47</b>	<b>0.01281</b>	<b>0.009018</b>	<b>0.004</b>	<b>Yes</b>	<b>15</b>	<b>0.01091</b>	<b>0.002797</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>

# State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
<b>Beryllium (mg/L)</b>	<b>DGWC-48</b>	<b>0.009234</b>	<b>0.007526</b>	<b>0.004</b>	<b>Yes 15</b>	<b>0.00838</b>	<b>0.00126</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Beryllium (mg/L)</b>	<b>DGWC-5</b>	<b>0.008688</b>	<b>0.006197</b>	<b>0.004</b>	<b>Yes 14</b>	<b>0.007443</b>	<b>0.001758</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	DGWC-8	0.003201	0.001685	0.004	No 14	0.002443	0.00107	7.143	None	No	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>DGWC-9</b>	<b>0.005896</b>	<b>0.004931</b>	<b>0.004</b>	<b>Yes 15</b>	<b>0.005413</b>	<b>0.000712</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cadmium (mg/L)	B-100	0.00059	0.00027	0.005	No 4	0.000355	0.000157	0	None	No	0.0625	NP (normality)
Cadmium (mg/L)	B-102D	0.0009243	0.0006021	0.005	No 4	0.0007775	0.00007274	0	None	x^2	0.01	Param.
Cadmium (mg/L)	B-56	0.0003178	0.0002172	0.005	No 4	0.0002675	0.00002217	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0003199	0.00007013	0.005	No 4	0.0003475	0.0001817	50	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	B-82	0.0007939	0.0002981	0.005	No 5	0.000546	0.0001479	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0004307	0.0002333	0.005	No 5	0.000332	0.00005891	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.008758	-0.003848	0.005	No 4	0.002455	0.002776	0	None	No	0.01	Param.
Cadmium (mg/L)	B-93	0.0009316	0.0006384	0.005	No 4	0.000785	0.00006455	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001207	0.0008102	0.005	No 14	0.001009	0.0002801	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00016	0.005	No 14	0.0004221	0.0001549	78.57	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003426	0.0002257	0.005	No 16	0.0003944	0.0001917	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No 14	0.0004486	0.0001328	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00012	0.005	No 15	0.0004287	0.0002377	73.33	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.00033	0.00023	0.005	No 15	0.0002987	0.00009062	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.0005	0.00034	0.005	No 15	0.0004207	0.0001665	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.0002846	0.0001314	0.005	No 15	0.0003667	0.0002335	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-20	0.002238	0.001722	0.005	No 15	0.00198	0.0003802	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.0007418	0.0004675	0.005	No 15	0.0006047	0.0002024	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0007017	0.0004543	0.005	No 15	0.000578	0.0001826	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0003	0.00019	0.005	No 15	0.0002967	0.0002115	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.0008282	0.0006103	0.005	No 14	0.0007193	0.0001538	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.001109	0.0004679	0.005	No 15	0.0008233	0.0005572	13.33	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.002181	0.001246	0.005	No 15	0.001713	0.0006896	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.0042	0.0025	0.005	No 15	0.003527	0.001682	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-5	0.0008175	0.0004382	0.005	No 14	0.0006279	0.0002677	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002516	0.00197	0.005	No 14	0.002243	0.0003857	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006732	0.0005032	0.005	No 15	0.0005927	0.0001373	13.33	None	x^(1/3)	0.01	Param.
Chromium (mg/L)	B-100	0.001223	0.0003828	0.1	No 4	0.002877	0.002456	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	B-104D	0.005	0.0011	0.1	No 4	0.004025	0.00195	75	Kaplan-Meier	No	0.0625	NP (NDs)
Chromium (mg/L)	B-56	0.001914	0.00007551	0.1	No 4	0.002997	0.002336	50	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	B-62	0.005	0.00098	0.1	No 7	0.004426	0.001519	85.71	Kaplan-Meier	No	0.008	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.00064	0.1	No 4	0.00391	0.00218	75	Kaplan-Meier	No	0.0625	NP (NDs)
Chromium (mg/L)	B-77	0.001858	0.0005328	0.1	No 6	0.00241	0.002072	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	B-82	0.005	0.0011	0.1	No 5	0.00422	0.001744	80	Kaplan-Meier	No	0.031	NP (NDs)
Chromium (mg/L)	B-83	0.0051	0.0017	0.1	No 5	0.00394	0.001524	0	None	No	0.031	NP (selected)
Chromium (mg/L)	B-88	0.002116	0.0005176	0.1	No 4	0.002237	0.001875	25	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	B-93	0.005	0.00057	0.1	No 4	0.002807	0.002532	50	None	No	0.0625	NP (normality)
Chromium (mg/L)	DGWC-10	0.005	0.00078	0.1	No 14	0.002321	0.002074	35.71	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.0006	0.1	No 14	0.003742	0.002064	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No 16	0.004496	0.001378	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.005	0.00074	0.1	No 14	0.003778	0.002006	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.00058	0.1	No 15	0.004423	0.002397	73.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0035	0.0024	0.1	No 15	0.003047	0.0008651	13.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.005	0.0023	0.1	No 15	0.00342	0.002022	20	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.0005	0.1	No 15	0.003211	0.002268	60	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.002136	0.001443	0.1	No 15	0.003467	0.002385	40	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	DGWC-21	0.005	0.0005	0.1	No 15	0.00333	0.002148	60	Kaplan-Meier	No	0.01	NP (NDs)

# State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	15	0.004747	0.0009812	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0005	0.1	No	15	0.002187	0.002075	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	14	0.004679	0.001203	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.0005	0.1	No	15	0.003082	0.002157	53.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	15	0.004713	0.00111	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	15	0.004407	0.001567	86.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	14	0.004675	0.001216	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.005	0.00086	0.1	No	14	0.003391	0.002002	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.0057	0.00059	0.1	No	15	0.003593	0.002173	60	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.087	0.029	0.032	No	6	0.058	0.02804	0	None	No	0.0155	NP (selected)
Cobalt (mg/L)	B-102D	0.01585	0.01215	0.032	No	4	0.014	0.0008165	0	None	No	0.01	Param.
Cobalt (mg/L)	B-104D	0.2361	-0.01451	0.032	No	4	0.1625	0.04272	0	None	x^2	0.01	Param.
Cobalt (mg/L)	B-111D	0.0009228	0.0004439	0.032	No	4	0.00112	0.0009256	25	Kaplan-Meier	x^(1/3)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>B-56</b>	<b>0.05421</b>	<b>0.03629</b>	<b>0.032</b>	<b>Yes</b>	<b>4</b>	<b>0.04525</b>	<b>0.003948</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-62	0.0025	0.0003	0.032	No	7	0.001873	0.001071	71.43	None	No	0.008	NP (NDs)
<b>Cobalt (mg/L)</b>	<b>B-63</b>	<b>0.0547</b>	<b>0.0353</b>	<b>0.032</b>	<b>Yes</b>	<b>5</b>	<b>0.045</b>	<b>0.005788</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-66	0.01241	0.003754	0.032	No	5	0.00758	0.003665	20	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-77	0.0031	0.0004	0.032	No	6	0.001817	0.0009725	16.67	None	No	0.0155	NP (selected)
Cobalt (mg/L)	B-82	0.007804	0.0003291	0.032	No	6	0.004067	0.002721	0	None	No	0.01	Param.
Cobalt (mg/L)	B-83	0.021	0.0073	0.032	No	5	0.01344	0.005791	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-88	0.022	0.0015	0.032	No	5	0.00928	0.009906	0	None	No	0.031	NP (selected)
<b>Cobalt (mg/L)</b>	<b>B-93</b>	<b>0.069</b>	<b>0.0594</b>	<b>0.032</b>	<b>Yes</b>	<b>5</b>	<b>0.0642</b>	<b>0.002864</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-10</b>	<b>0.1888</b>	<b>0.1413</b>	<b>0.032</b>	<b>Yes</b>	<b>14</b>	<b>0.1537</b>	<b>0.04866</b>	<b>0</b>	<b>None</b>	<b>x^4</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-11	0.0025	0.0006	0.032	No	14	0.001481	0.0009221	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.013	0.0021	0.032	No	16	0.008125	0.009711	12.5	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-13	0.0025	0.0005	0.032	No	14	0.002056	0.0008832	78.57	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0028	0.0016	0.032	No	15	0.003653	0.005947	6.667	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02716	0.02022	0.032	No	15	0.02313	0.00641	6.667	None	x^2	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-19</b>	<b>0.05331</b>	<b>0.04925</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.05128</b>	<b>0.002996</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-2	0.0284	0.0062	0.032	No	15	0.01761	0.01155	0	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>DGWC-20</b>	<b>0.6394</b>	<b>0.4659</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.5575</b>	<b>0.1355</b>	<b>0</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-21	0.009773	0.008552	0.032	No	15	0.00862	0.002141	13.33	None	x^6	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009945	0.007492	0.032	No	15	0.008533	0.002244	13.33	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.005	0.00039	0.032	No	15	0.00183	0.001357	60	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-4	0.0021	0.0015	0.032	No	14	0.002021	0.000904	14.29	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.04451	0.01723	0.032	No	15	0.03087	0.02013	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-47</b>	<b>0.3858</b>	<b>0.253</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.3194</b>	<b>0.09792</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-48</b>	<b>0.5073</b>	<b>0.402</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.4547</b>	<b>0.07771</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-5	0.04	0.02	0.032	No	14	0.02794	0.01109	0	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>DGWC-8</b>	<b>0.0878</b>	<b>0.04412</b>	<b>0.032</b>	<b>Yes</b>	<b>14</b>	<b>0.06596</b>	<b>0.03083</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-9</b>	<b>0.201</b>	<b>0.1437</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.1724</b>	<b>0.04231</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Combined Radium 226 + 228 (pCi/L)	B-100	1.4	0.168	5.61	No	4	0.7853	0.5031	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-102D	1.74	0.635	5.61	No	4	1.096	0.4956	0	None	No	0.0625	NP (selected)
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>B-104D</b>	<b>21.26</b>	<b>6.892</b>	<b>5.61</b>	<b>Yes</b>	<b>4</b>	<b>14.08</b>	<b>3.164</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Combined Radium 226 + 228 (pCi/L)	B-111D	16.31	1.377	5.61	No	4	8.843	3.288	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-56	1.617	0.5846	5.61	No	4	1.101	0.2275	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	2.02	1.173	5.61	No	6	1.597	0.3082	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-77	2.17	0.617	5.61	No	5	1.516	0.7658	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-82	1.18	0.3541	5.61	No	4	0.7673	0.182	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-83	1.15	0.0359	5.61	No	5	0.674	0.4409	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-88	2.84	0.771	5.61	No	4	1.752	1.056	0	None	No	0.0625	NP (selected)

# State Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	B-93	2.371	0.3074	5.61	No 4	1.339	0.4544	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.497	1.071	5.61	No 15	1.284	0.314	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.272	0.6667	5.61	No 15	0.9694	0.4467	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.27	0.4013	5.61	No 15	0.8984	0.714	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.484	1.036	5.61	No 15	1.26	0.3303	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.103	0.6919	5.61	No 15	0.8972	0.303	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.553	0.551	5.61	No 15	1.118	0.8748	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	1.05	0.5723	5.61	No 15	0.8113	0.3526	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	1.04	0.5062	5.61	No 15	0.7733	0.3942	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.444	0.8924	5.61	No 15	1.168	0.4067	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.543	0.8767	5.61	No 15	1.21	0.4913	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.125	0.5866	5.61	No 15	0.8557	0.3972	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.364	0.733	5.61	No 15	1.049	0.4659	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.489	0.7765	5.61	No 15	1.133	0.5259	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.721	1.187	5.61	No 15	1.454	0.3939	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.169	0.7309	5.61	No 15	0.9499	0.3231	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	2.903	1.785	5.61	No 15	2.344	0.8249	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.415	1.602	5.61	No 15	2.03	0.6435	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.839	1.024	5.61	No 15	1.431	0.6015	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.841	0.4794	5.61	No 15	0.6602	0.2668	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.439	0.9531	5.61	No 15	1.196	0.3583	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-102D	0.11	0.077	4	No 4	0.08725	0.01537	0	None	No	0.0625	NP (normality)
Fluoride, total (mg/L)	B-104D	0.5774	0.2326	4	No 4	0.405	0.07594	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-111D	0.7199	0.1451	4	No 4	0.4325	0.1266	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-56	0.34	0.098	4	No 4	0.207	0.09985	0	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-62	0.3546	0.06003	4	No 6	0.1855	0.1295	0	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	B-77	0.1	0.078	4	No 5	0.0948	0.00955	60	None	No	0.031	NP (NDs)
Fluoride, total (mg/L)	B-82	0.2	0.052	4	No 4	0.113	0.06226	50	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-83	0.1232	0.02857	4	No 5	0.0834	0.0317	20	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	B-93	0.3685	0.2815	4	No 4	0.325	0.01915	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-10	1.862	1.347	4	No 16	1.604	0.3955	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-11	0.1	0.052	4	No 15	0.0804	0.0261	60	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-12	0.1641	0.05529	4	No 16	0.1588	0.1448	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-13	0.2134	0.08589	4	No 15	0.157	0.1093	6.667	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-14	0.1	0.052	4	No 16	0.08588	0.02643	68.75	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-15	0.11	0.079	4	No 16	0.1054	0.04361	62.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-17	0.2722	0.09774	4	No 16	0.2039	0.1552	12.5	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-19	0.5135	0.1749	4	No 16	0.3713	0.313	6.25	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-2	0.28	0.052	4	No 16	0.1429	0.1586	37.5	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-20	0.9494	0.4006	4	No 16	0.675	0.4218	6.25	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-21	0.14	0.07	4	No 16	0.107	0.06664	62.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-22	0.13	0.09	4	No 16	0.1185	0.06532	50	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-23	0.2262	0.09243	4	No 16	0.1852	0.1558	6.25	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-4	0.17	0.082	4	No 16	0.1364	0.1776	68.75	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-42	0.1	0.06	4	No 16	0.0925	0.02176	87.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-47	1.146	0.5167	4	No 16	0.8313	0.4835	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-48	1.19	0.6114	4	No 16	0.9006	0.4445	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-5	0.7808	0.2378	4	No 15	0.5667	0.4567	6.667	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-8	0.4095	0.1193	4	No 15	0.2868	0.2338	13.33	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-9	1.391	0.9657	4	No 16	1.178	0.3265	0	None	No	0.01	Param.
Lead (mg/L)	B-100	0.0003036	0.00005528	0.001	No 4	0.0003695	0.0004235	25	Kaplan-Meier	sqrt(x)	0.01	Param.

# State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	B-102D	0.001	0.000037	0.001	No 4	0.0002865	0.0004758	25	None	No	0.0625	NP (normality)
Lead (mg/L)	B-104D	0.001	0.000051	0.001	No 4	0.0007628	0.0004745	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000051	0.001	No 4	0.0005273	0.0005459	50	None	No	0.0625	NP (normality)
Lead (mg/L)	B-56	0.0002854	0.00003627	0.001	No 4	0.0003528	0.0004355	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	B-63	0.001	0.000047	0.001	No 4	0.00053	0.0005428	50	None	No	0.0625	NP (normality)
Lead (mg/L)	B-77	0.0016	0.00021	0.001	No 6	0.0007367	0.000554	33.33	None	No	0.0155	NP (selected)
Lead (mg/L)	B-82	0.0001911	0.00004858	0.001	No 5	0.0004658	0.000489	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	B-83	0.001	0.000065	0.001	No 5	0.000455	0.0004634	20	None	No	0.031	NP (selected)
Lead (mg/L)	B-88	0.02767	0.00004865	0.001	No 4	0.00354	0.005647	25	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	B-93	0.001	0.00012	0.001	No 4	0.00056	0.0005081	50	None	No	0.0625	NP (normality)
Lead (mg/L)	DGWC-10	0.001	0.00011	0.001	No 14	0.0006273	0.0004481	57.14	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.0001	0.001	No 14	0.0006785	0.0004481	64.29	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.001	0.00011	0.001	No 16	0.0008881	0.0003057	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.001	No 14	0.0008784	0.0003097	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.001	No 15	0.0008149	0.0003834	80	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.0012	0.0001	0.001	No 15	0.0007161	0.0004487	60	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.00009	0.001	No 15	0.0005862	0.0004585	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00007	0.001	No 15	0.0007059	0.0004334	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.000086	0.001	No 15	0.0005156	0.0004693	46.67	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-20	0.001	0.00015	0.001	No 15	0.0007311	0.0003691	60	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.00014	0.001	No 15	0.0006177	0.0004296	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.001	No 15	0.0009377	0.0002412	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.00012	0.001	No 14	0.0007478	0.0004149	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0004678	0.0001549	0.001	No 15	0.0008147	0.001228	20	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.0011	0.00053	0.001	No 15	0.001081	0.001106	26.67	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.0022	0.00095	0.001	No 15	0.001664	0.001169	13.33	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.001	0.000051	0.001	No 14	0.0005984	0.0006777	35.71	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.001	0.00011	0.001	No 14	0.0006273	0.0004132	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-9	0.001	0.00028	0.001	No 15	0.00084	0.0003323	80	None	No	0.01	NP (NDs)
Lithium (mg/L)	B-100	0.003519	0.0007815	0.03	No 4	0.00215	0.0006028	0	None	No	0.01	Param.
Lithium (mg/L)	B-102D	0.01666	0.009844	0.03	No 4	0.01325	0.0015	0	None	No	0.01	Param.
<b>Lithium (mg/L)</b>	<b>B-104D</b>	<b>0.04121</b>	<b>0.03479</b>	<b>0.03</b>	<b>Yes 4</b>	<b>0.038</b>	<b>0.001414</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	B-111D	0.029	0.021	0.03	No 4	0.02475	0.004349	0	None	No	0.0625	NP (selected)
Lithium (mg/L)	B-56	0.005968	0.004632	0.03	No 4	0.0053	0.0002944	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.015	0.0078	0.03	No 7	0.0094	0.002532	14.29	None	No	0.008	NP (normality)
Lithium (mg/L)	B-63	0.015	0.0062	0.03	No 5	0.00812	0.003849	20	None	No	0.031	NP (normality)
Lithium (mg/L)	B-77	0.015	0.00095	0.03	No 6	0.004525	0.005339	16.67	None	No	0.0155	NP (selected)
Lithium (mg/L)	B-82	0.0039	0.001	0.03	No 5	0.00222	0.001422	0	None	No	0.031	NP (selected)
Lithium (mg/L)	B-83	0.004551	0.0009685	0.03	No 5	0.00276	0.001069	0	None	No	0.01	Param.
Lithium (mg/L)	B-88	0.029	0.0016	0.03	No 4	0.009575	0.01311	0	None	No	0.0625	NP (selected)
Lithium (mg/L)	B-93	0.012	0.011	0.03	No 4	0.01125	0.0005	0	None	No	0.0625	NP (normality)
Lithium (mg/L)	DGWC-10	0.006793	0.002702	0.03	No 14	0.005343	0.004279	14.29	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.03	No 14	0.003186	0.003418	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.0011	0.03	No 16	0.01064	0.006685	68.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.0036	0.0029	0.03	No 14	0.004879	0.004297	14.29	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0032	0.03	No 15	0.00472	0.003078	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0066	0.0058	0.03	No 14	0.00625	0.0008465	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.00096	0.03	No 15	0.009434	0.007057	60	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0035	0.003	0.03	No 15	0.003993	0.003053	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.085	0.023	0.03	No 15	0.04906	0.03031	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.03	No 15	0.006407	0.005611	6.667	None	No	0.01	NP (normality)

# State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	DGWC-21	0.0065	0.0057	0.03	No	15	0.00656	0.00236	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0046	0.0037	0.03	No	15	0.00484	0.002836	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.01279	0.003816	0.03	No	15	0.01165	0.01832	6.667	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-4	0.0035	0.0025	0.03	No	14	0.003786	0.003256	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01268	0.01007	0.03	No	15	0.01137	0.001928	6.667	None	No	0.01	Param.
<b>Lithium (mg/L)</b>	<b>DGWC-47</b>	<b>0.07457</b>	<b>0.05787</b>	<b>0.03</b>	<b>Yes</b>	<b>15</b>	<b>0.06622</b>	<b>0.01232</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>DGWC-48</b>	<b>0.1269</b>	<b>0.106</b>	<b>0.03</b>	<b>Yes</b>	<b>15</b>	<b>0.1165</b>	<b>0.01544</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	DGWC-5	0.008199	0.004206	0.03	No	14	0.006343	0.003062	7.143	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	DGWC-8	0.0072	0.0045	0.03	No	14	0.006036	0.002823	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-9	0.02931	0.02328	0.03	No	15	0.02629	0.004445	6.667	None	No	0.01	Param.
Mercury (mg/L)	B-104D	0.0002	0.000079	0.002	No	4	0.0001697	0.0000605	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.000094	0.002	No	4	0.0001735	0.000053	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-56	0.0002	0.00016	0.002	No	4	0.00019	0.00002	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No	5	0.000182	0.00004025	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.0001	0.002	No	4	0.0001525	0.000055	50	None	No	0.0625	NP (normality)
Mercury (mg/L)	B-93	0.00036	0.00001396	0.002	No	4	0.000187	0.00007622	0	None	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0002	0.000081	0.002	No	14	0.0001658	0.00005628	71.43	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.0002	0.00008	0.002	No	14	0.0001707	0.0000585	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00008	0.002	No	16	0.0001541	0.00006456	62.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	14	0.0001829	0.00004375	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	15	0.0001727	0.00005688	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	15	0.0001907	0.00003615	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.00006	0.002	No	15	0.0001404	0.00006361	46.67	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-19	0.0002	0.00009	0.002	No	15	0.000172	0.00005882	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	15	0.0002049	0.0001304	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	15	0.0001767	0.00004835	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00006	0.002	No	15	0.000158	0.00006327	66.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.0001	0.002	No	15	0.0001677	0.00005729	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0002053	0.0001241	0.002	No	15	0.0001853	0.0000573	26.67	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-4	0.00059	0.00013	0.002	No	14	0.0002059	0.0001192	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	15	0.0001893	0.00004131	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	15	0.0001907	0.00003615	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002402	0.0001202	0.002	No	14	0.0001924	0.0001175	14.29	None	ln(x)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.000079	0.002	No	14	0.0001494	0.00006312	57.14	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.00021	0.00013	0.002	No	15	0.0001881	0.00008736	46.67	None	No	0.01	NP (normality)
Molybdenum (mg/L)	B-104D	0.01	0.0012	0.041	No	4	0.0078	0.0044	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	B-111D	0.01817	0.002799	0.041	No	4	0.00765	0.003615	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	B-66	0.01	0.0015	0.041	No	4	0.005825	0.004822	50	None	No	0.0625	NP (normality)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.041	No	4	0.0056	0.005081	50	None	No	0.0625	NP (normality)
Molybdenum (mg/L)	DGWC-13	0.0262	0.01302	0.041	No	14	0.01961	0.009301	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.0018	0.041	No	15	0.005093	0.004167	40	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01117	0.00682	0.041	No	15	0.008993	0.003208	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.007258	0.004757	0.041	No	14	0.006007	0.001765	7.143	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.0019	0.05	No	4	0.004225	0.00155	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-104D	0.004053	0.0006472	0.05	No	4	0.003675	0.001648	50	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	B-111D	0.005	0.0022	0.05	No	4	0.0043	0.0014	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-56	0.029	0.011	0.05	No	4	0.016	0.008718	0	None	No	0.0625	NP (normality)
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No	6	0.00445	0.001347	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0016	0.05	No	5	0.00374	0.001734	60	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-83	0.02981	0.006668	0.05	No	5	0.01824	0.006906	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.004472	0.0007278	0.05	No	4	0.0026	0.0008246	0	None	No	0.01	Param.



# State Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	B-93	0.036	0.0076	0.05	No	4	0.01788	0.01288	0	None	No	0.0625	NP (selected)
Selenium (mg/L)	DGWC-10	0.05289	0.02215	0.05	No	14	0.03752	0.0217	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0017	0.05	No	16	0.003931	0.002266	56.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004442	0.0019	0.05	No	14	0.004307	0.00244	21.43	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-14	0.01	0.0017	0.05	No	15	0.004227	0.002257	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	15	0.00512	0.001582	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.009189	0.006423	0.05	No	15	0.007953	0.002359	13.33	None	ln(x)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.008946	0.005774	0.05	No	15	0.00736	0.00234	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0053	0.0045	0.05	No	15	0.005193	0.001557	46.67	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06742	0.0338	0.05	No	15	0.05061	0.02481	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	15	0.00478	0.0008521	93.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	14	0.004743	0.0009621	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01301	0.005259	0.05	No	15	0.009133	0.005718	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.008046	0.003594	0.05	No	15	0.00582	0.003285	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.0457	0.00964	0.05	No	14	0.03263	0.04214	7.143	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.00408	0.002153	0.05	No	14	0.004586	0.002144	50	Kaplan-Meier	sqrt(x)	0.01	Param.
<b>Selenium (mg/L)</b>	<b>DGWC-9</b>	<b>0.1308</b>	<b>0.05207</b>	<b>0.05</b>	<b>Yes</b>	<b>15</b>	<b>0.09144</b>	<b>0.0581</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Thallium (mg/L)	B-56	0.0003212	0.0001238	0.002	No	4	0.0002225	0.00004349	0	None	No	0.01	Param.
Thallium (mg/L)	B-82	0.001	0.000099	0.002	No	5	0.0006418	0.0004905	60	None	No	0.031	NP (NDs)
Thallium (mg/L)	B-83	0.001	0.000072	0.002	No	5	0.0008144	0.000415	80	None	No	0.031	NP (NDs)
Thallium (mg/L)	B-88	0.001	0.0002	0.002	No	4	0.0008	0.0004	75	None	No	0.0625	NP (NDs)
Thallium (mg/L)	DGWC-10	0.0006	0.00036	0.002	No	14	0.0004907	0.0002285	14.29	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.00009	0.002	No	16	0.0006042	0.0004636	56.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00017	0.002	No	15	0.000398	0.0003761	26.67	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.00059	0.00049	0.002	No	15	0.000544	0.0001384	6.667	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.000988	0.0005219	0.002	No	15	0.000942	0.0004995	26.67	Kaplan-Meier	ln(x)	0.01	Param.
Thallium (mg/L)	DGWC-22	0.001	0.000064	0.002	No	15	0.0006889	0.0004554	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	14	0.0009338	0.0002478	92.86	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00009	0.002	No	15	0.0007559	0.000419	73.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00036	0.0002	0.002	No	15	0.0003513	0.0002684	13.33	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.00008	0.002	No	15	0.0006937	0.0004484	66.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.0002	0.002	No	14	0.00081	0.0003787	78.57	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	14	0.0003886	0.0003356	21.43	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.001	0.00043	0.002	No	15	0.0007027	0.0002443	33.33	None	No	0.01	NP (normality)

# Appendix IV Trend Tests - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 3:01 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	DGWA-70A (bg)	-0.0006733	-54	-53	Yes	15	53.33	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-47	-0.001263	-55	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-53 (bg)	-0.005485	-77	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-10	-0.02424	-58	-48	Yes	14	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-47	-0.05383	-76	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-48	-0.04534	-87	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-8	-0.01234	-55	-48	Yes	14	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-9	0.02407	66	53	Yes	15	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-47	-0.006577	-65	-53	Yes	15	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-48	-0.008187	-75	-53	Yes	15	0	n/a	n/a	0.01	NP

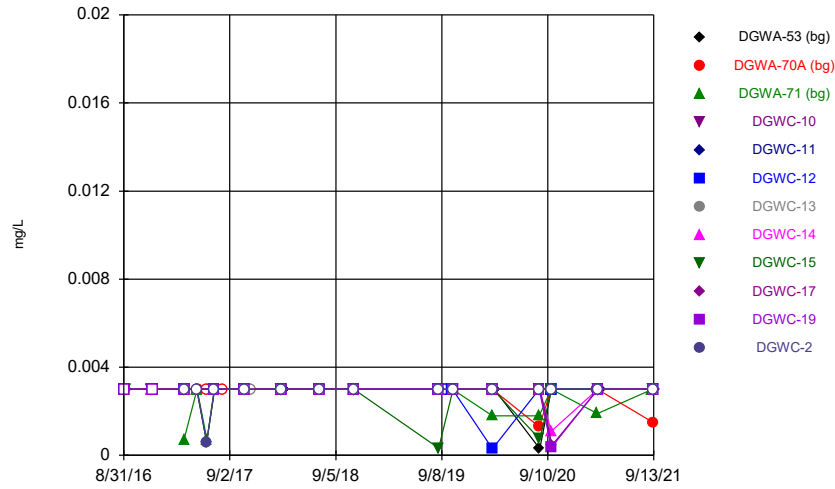
# Appendix IV Trend Tests - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 11/8/2021, 3:01 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	DGWA-53 (bg)	0	11	53	No	15	66.67	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-70A (bg)	0	-4	-53	No	15	93.33	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-71 (bg)	0	9	48	No	14	85.71	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWC-9	0.001503	18	53	No	15	6.667	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-53 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
<b>Beryllium (mg/L)</b>	<b>DGWA-70A (bg)</b>	<b>-0.0006733</b>	<b>-54</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>53.33</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Beryllium (mg/L)	DGWA-71 (bg)	-0.00002022	-33	-53	No	15	33.33	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-10	0.0006483	25	48	No	14	0	n/a	n/a	0.01	NP
<b>Beryllium (mg/L)</b>	<b>DGWC-47</b>	<b>-0.001263</b>	<b>-55</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Beryllium (mg/L)	DGWC-48	-0.0004177	-53	-53	No	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-5	0.0004286	25	48	No	14	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-9	0.0001134	20	53	No	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-93	0.00406	5	12	No	5	0	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-0.005485</b>	<b>-77</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	DGWA-70A (bg)	0	-1	-53	No	15	46.67	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-71 (bg)	0	17	48	No	14	64.29	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWC-10</b>	<b>-0.02424</b>	<b>-58</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	DGWC-19	-0.0006109	-25	-53	No	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-20	0.02101	20	53	No	15	0	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWC-47</b>	<b>-0.05383</b>	<b>-76</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-48</b>	<b>-0.04534</b>	<b>-87</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-8</b>	<b>-0.01234</b>	<b>-55</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-9</b>	<b>0.02407</b>	<b>66</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	B-56	0.004935	3	8	No	4	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-63	-0.004021	-5	-12	No	5	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-93	-0.003331	-6	-12	No	5	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-53 (bg)	-0.6866	-53	-53	No	15	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-70A (bg)	0.004235	0	58	No	16	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-71 (bg)	0	0	53	No	15	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	B-104D	-8.273	-4	-8	No	4	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-53 (bg)	-0.0001578	-13	-53	No	15	6.667	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-70A (bg)	0	15	53	No	15	80	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-71 (bg)	-0.0001648	-41	-48	No	14	21.43	n/a	n/a	0.01	NP
<b>Lithium (mg/L)</b>	<b>DGWC-47</b>	<b>-0.006577</b>	<b>-65</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Lithium (mg/L)</b>	<b>DGWC-48</b>	<b>-0.008187</b>	<b>-75</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Lithium (mg/L)	B-104D	-0.004109	-5	-8	No	4	0	n/a	n/a	0.01	NP
Selenium (mg/L)	DGWA-53 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Selenium (mg/L)	DGWA-70A (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Selenium (mg/L)	DGWA-71 (bg)	0	0	48	No	14	100	n/a	n/a	0.01	NP
Selenium (mg/L)	DGWC-9	0.006758	19	53	No	15	0	n/a	n/a	0.01	NP

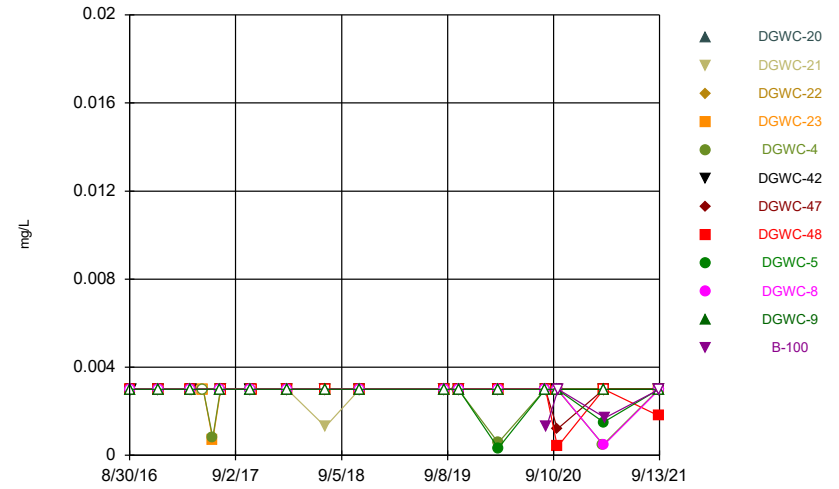
FIGURE A.

Time Series



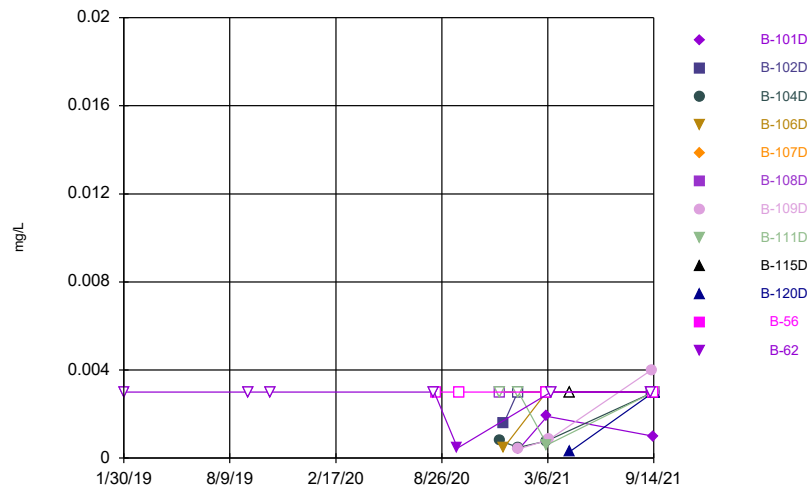
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



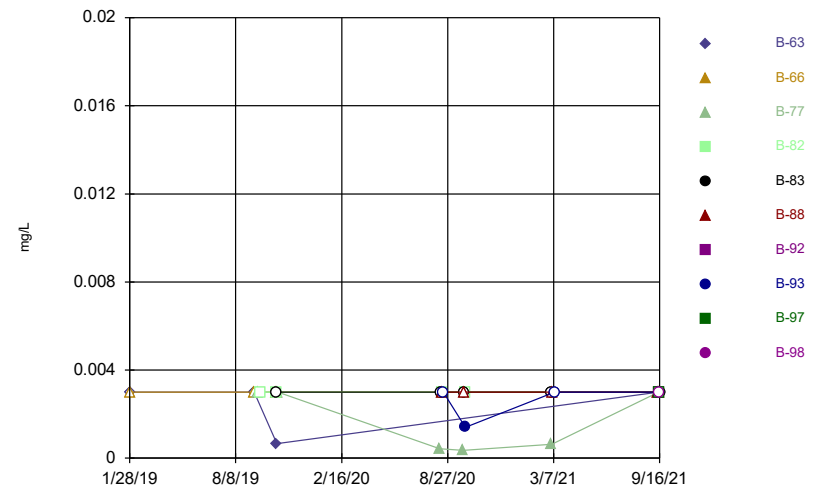
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



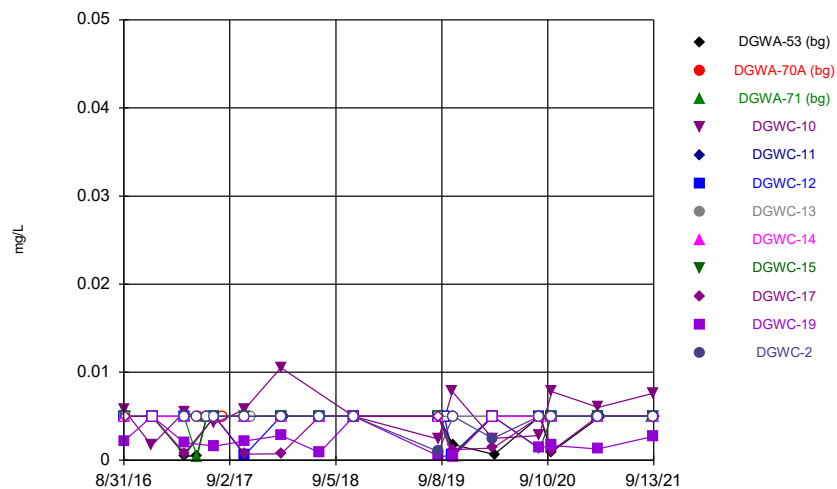
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



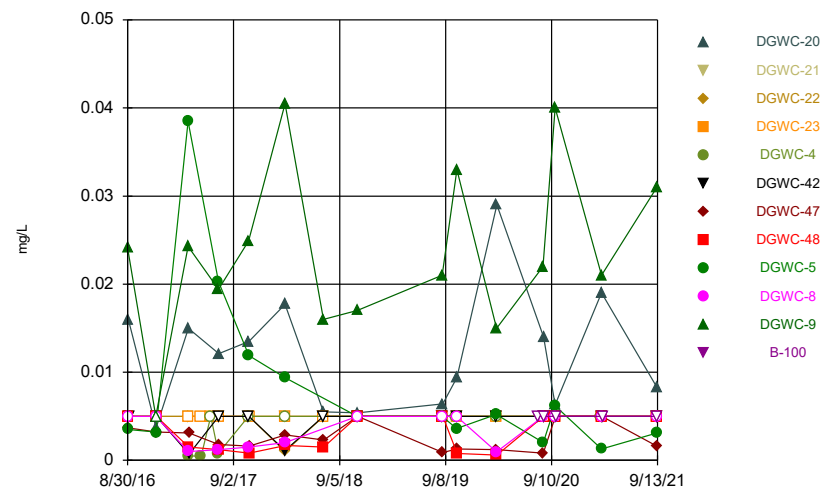
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



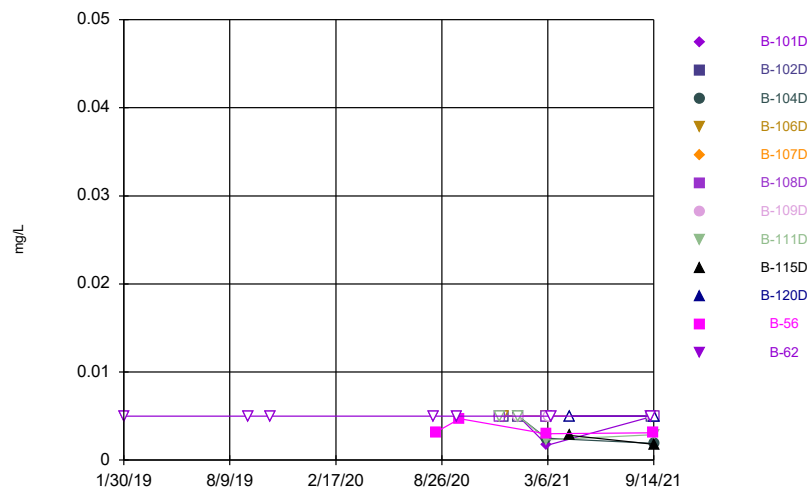
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



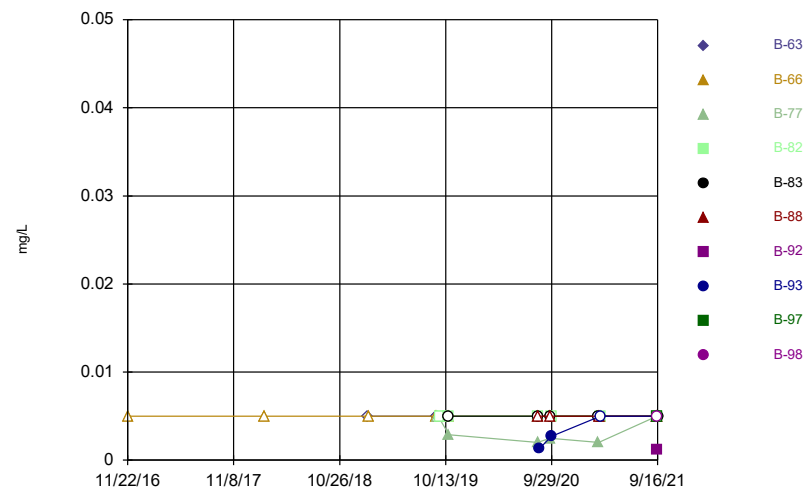
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



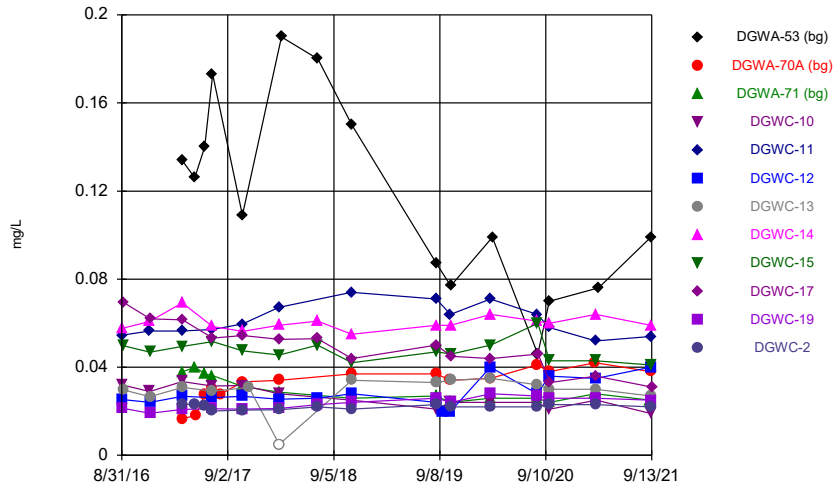
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



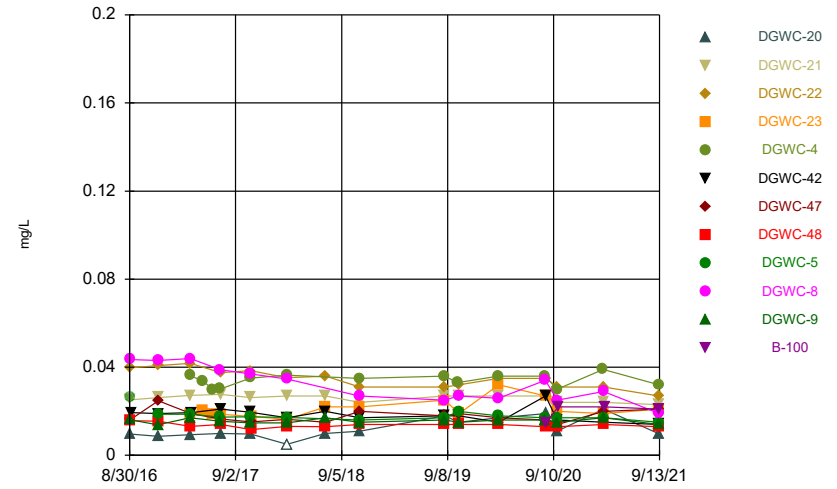
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Time Series



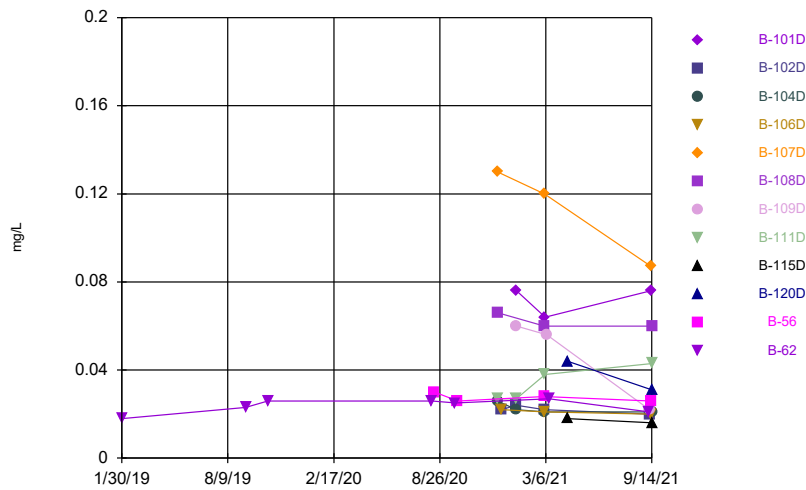
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Time Series



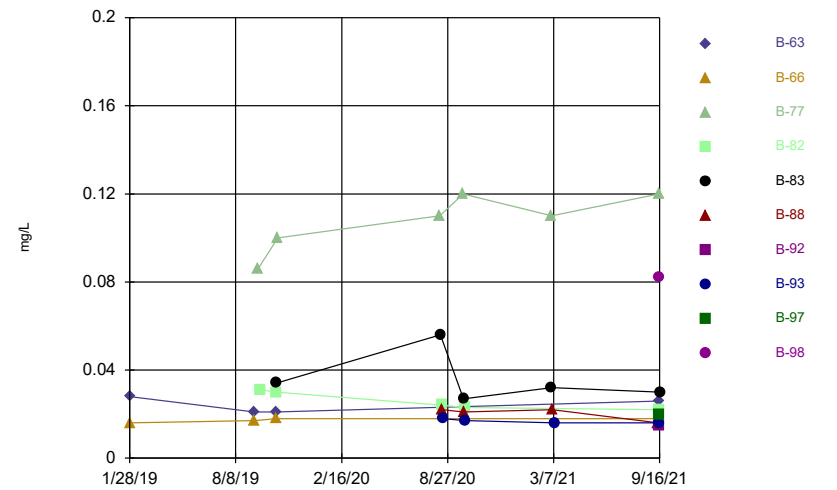
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Time Series



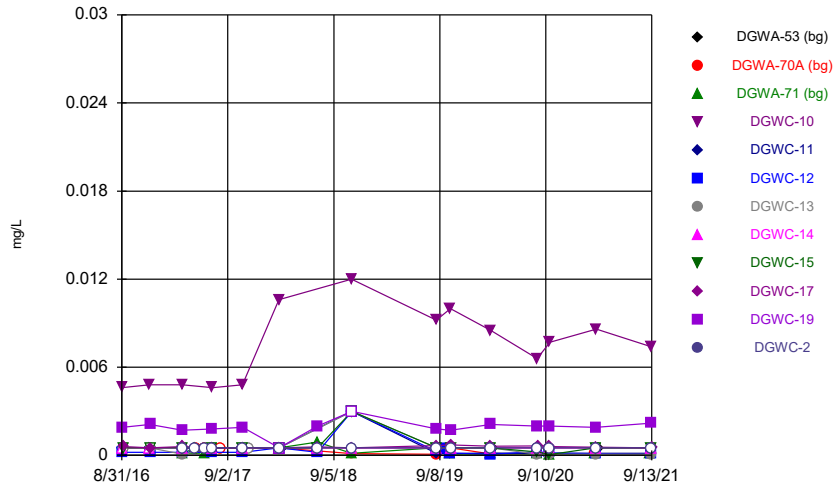
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Time Series



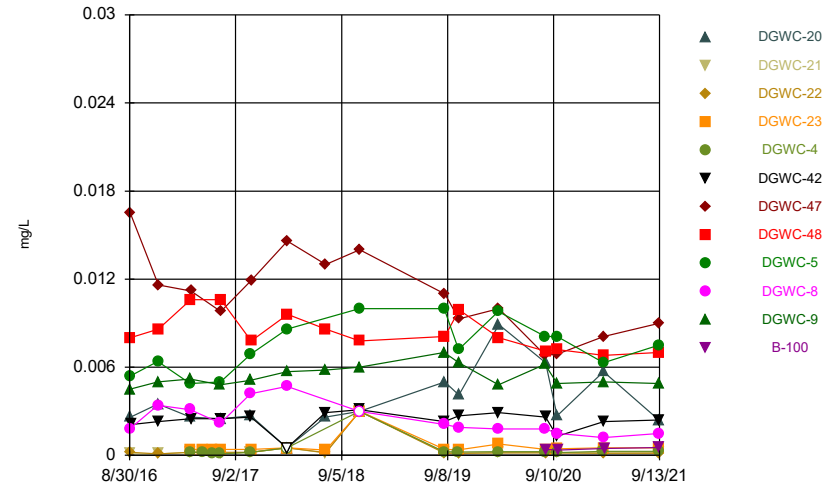
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### Time Series



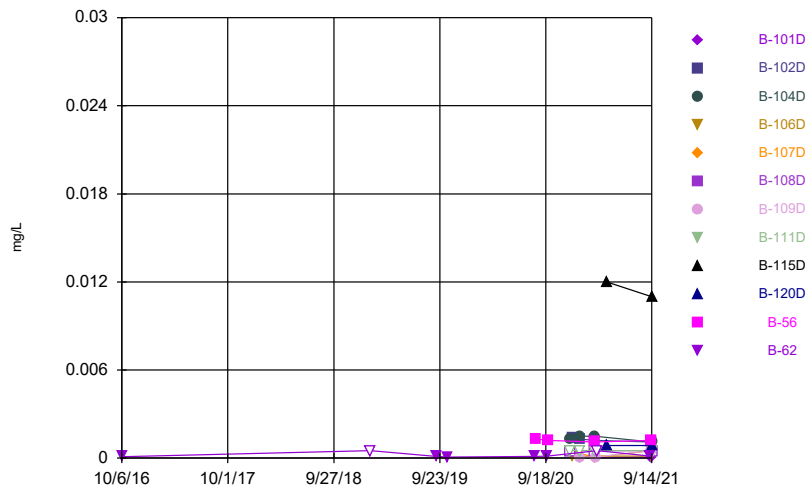
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### Time Series



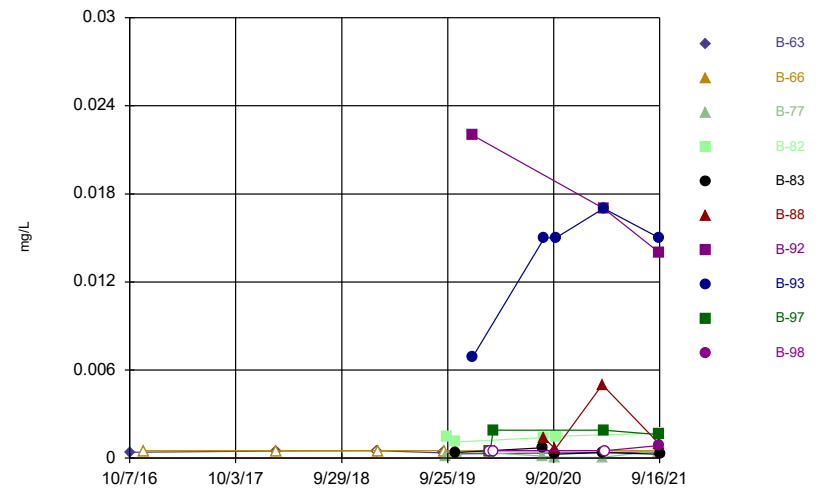
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### Time Series



Constituent: Beryllium Analysis Run 11/8/2021 1:00 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

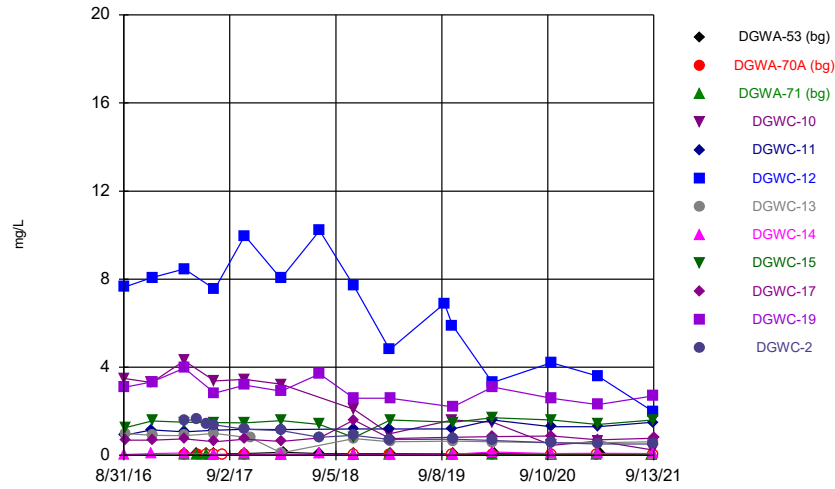
### Time Series



Constituent: Beryllium Analysis Run 11/8/2021 1:00 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

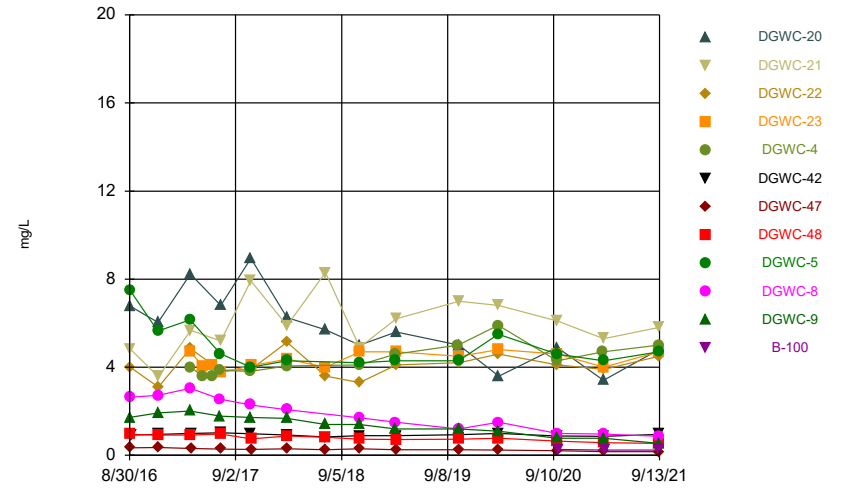


### Time Series



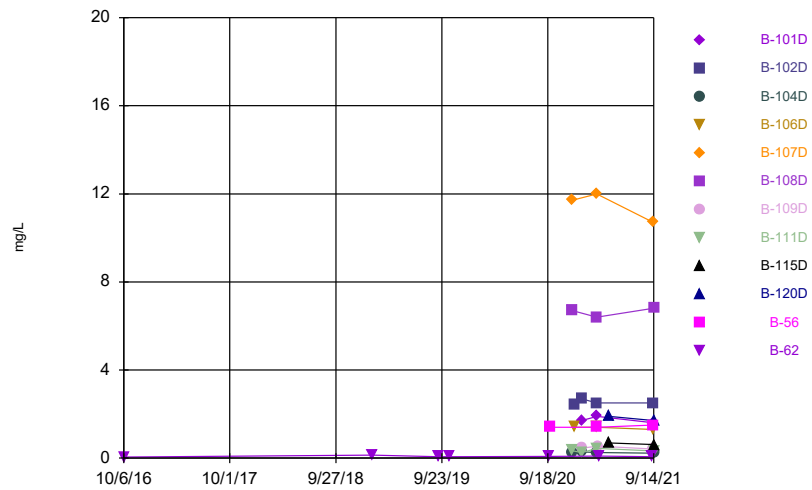
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



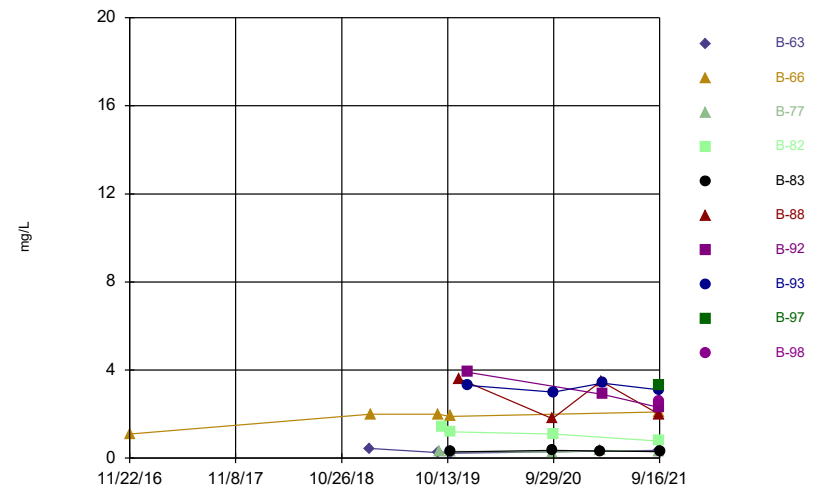
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### Time Series



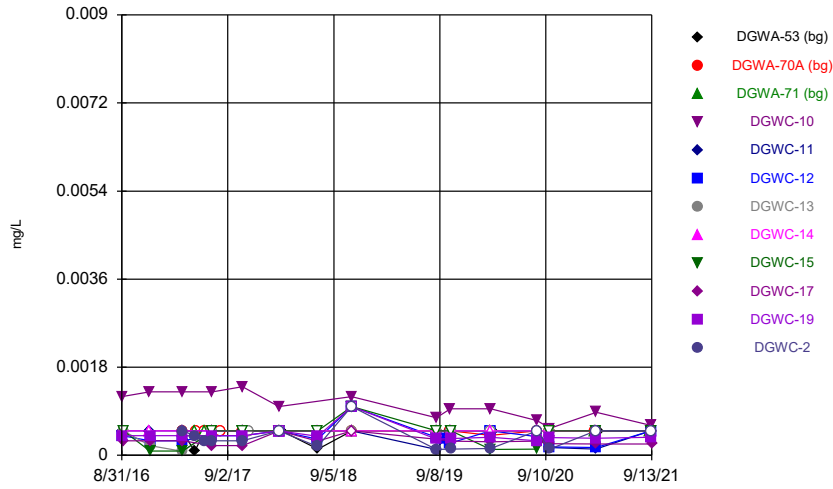
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### Time Series



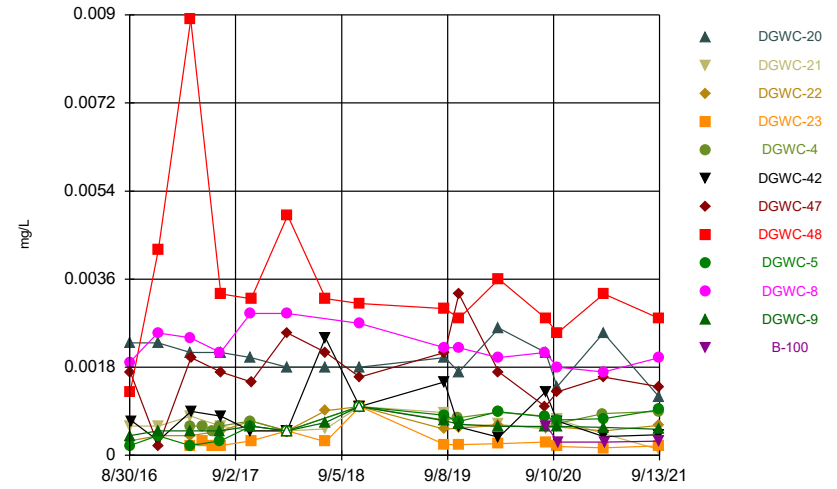
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



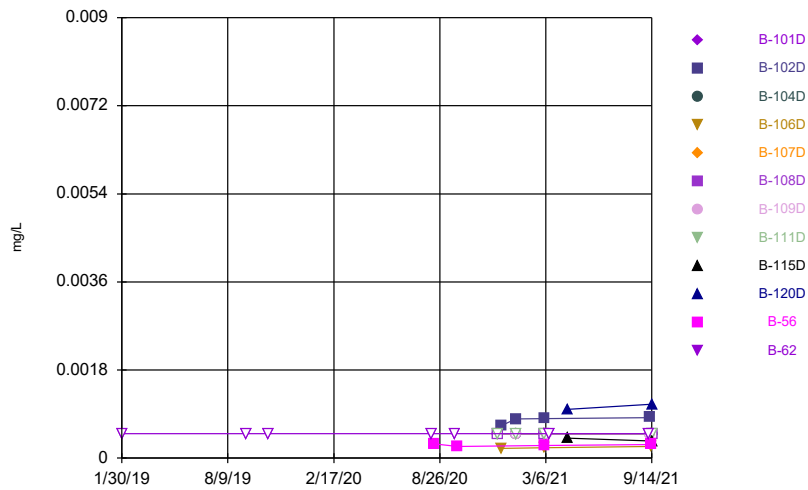
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



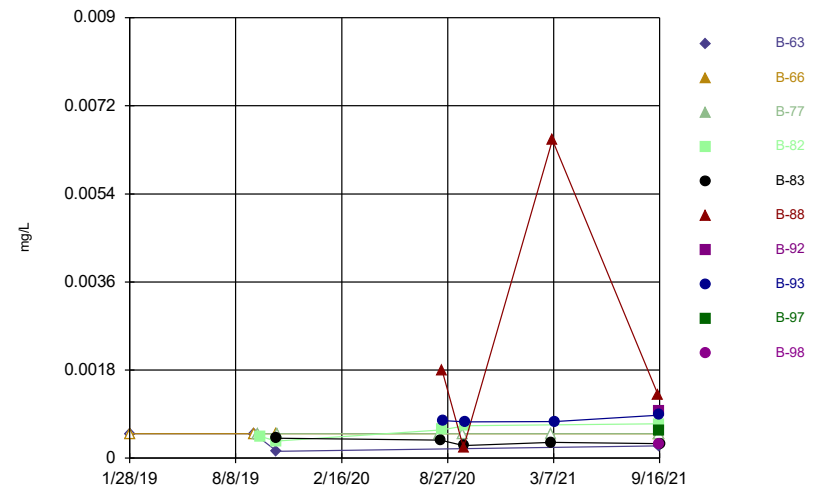
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



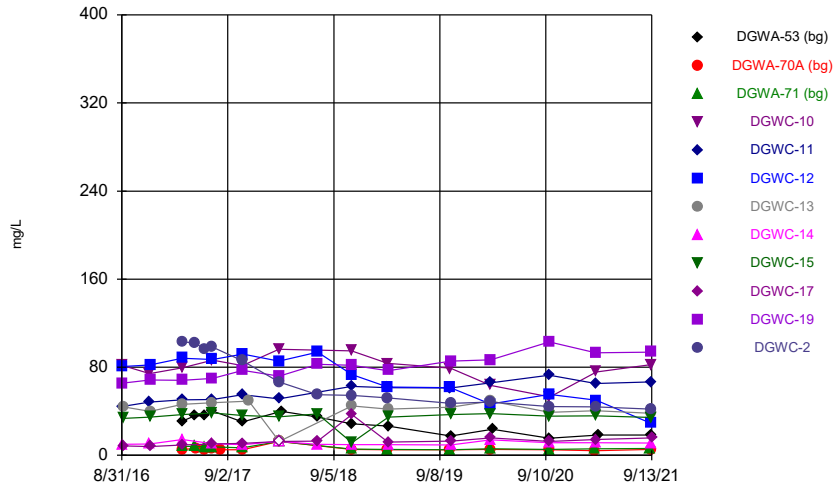
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



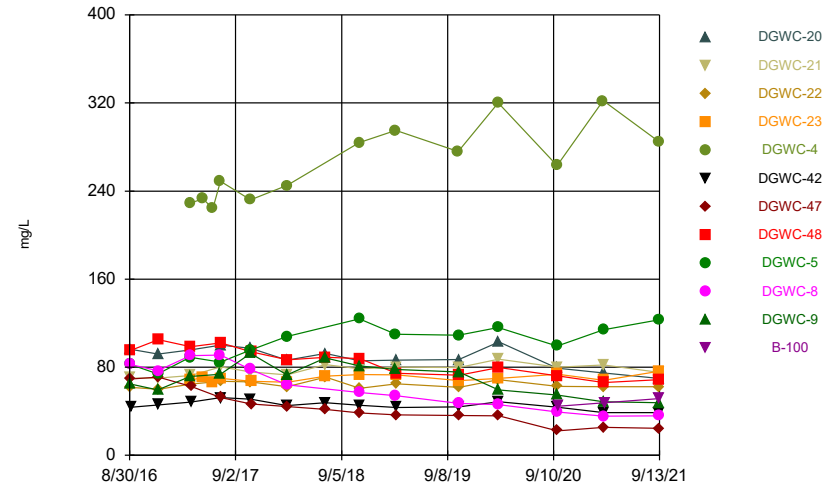
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



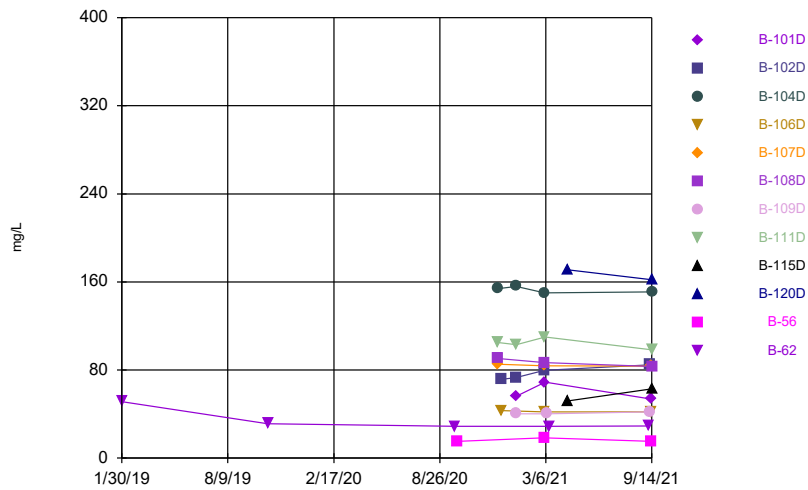
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 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



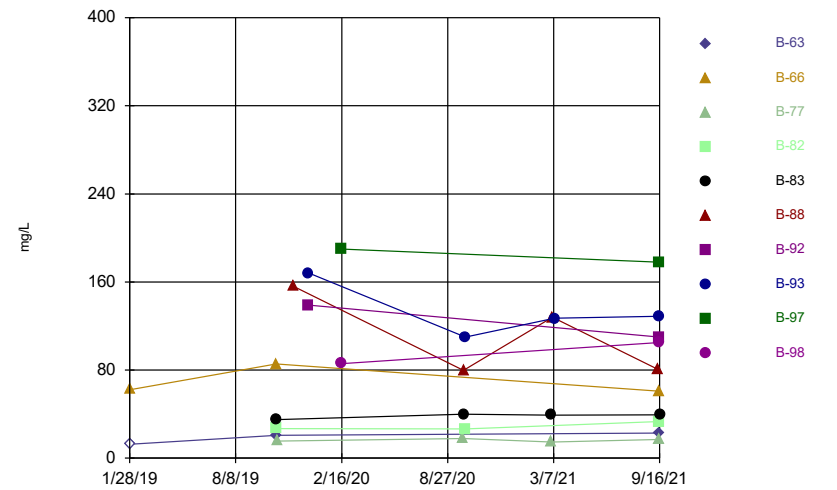
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Time Series



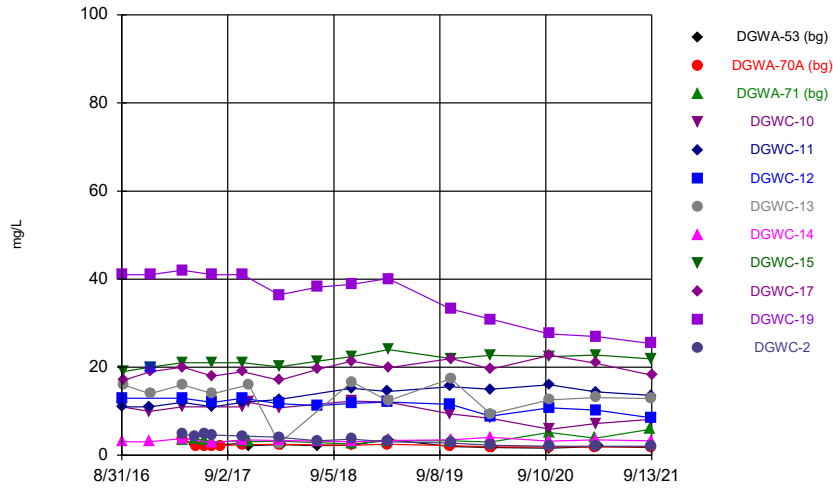
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 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



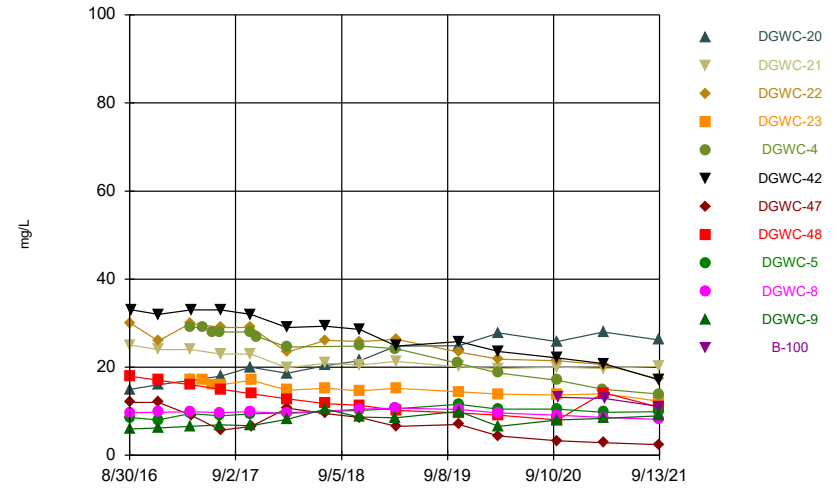
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Time Series



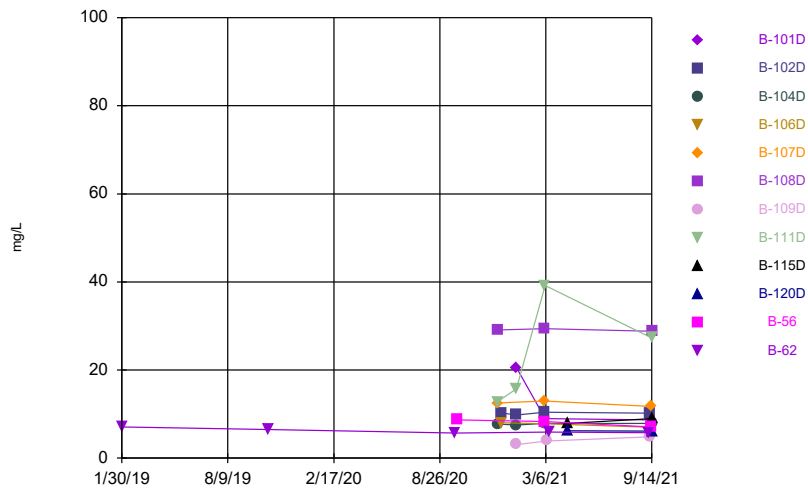
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Time Series



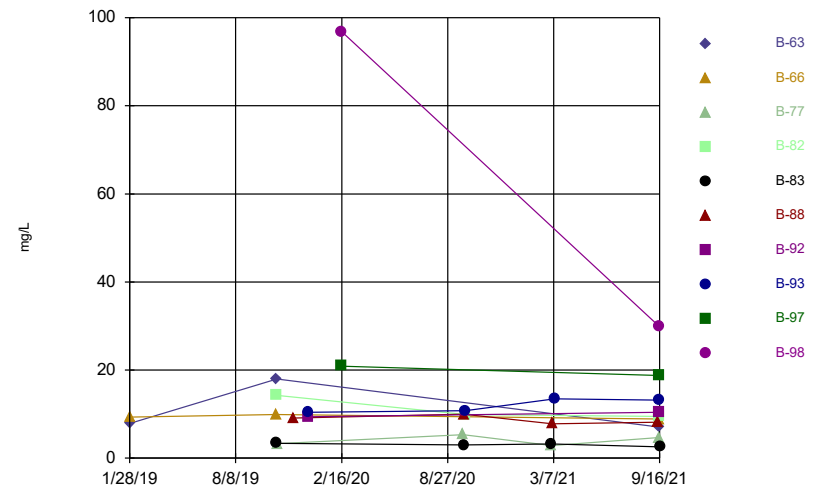
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Time Series



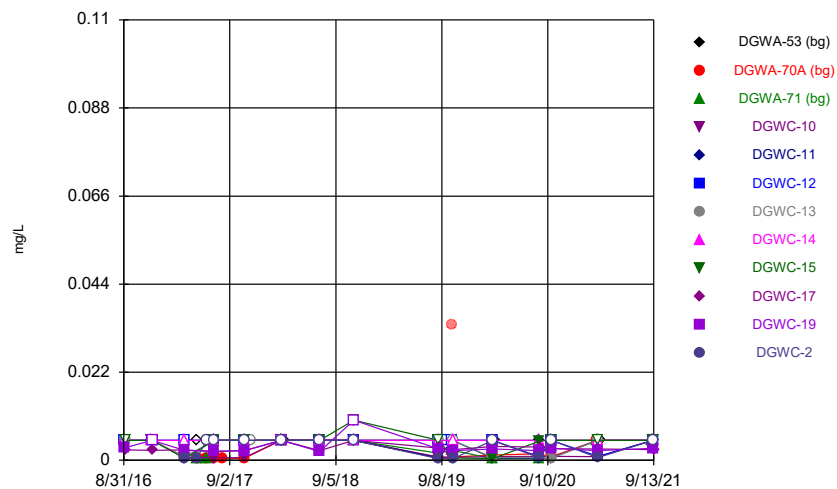
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Time Series



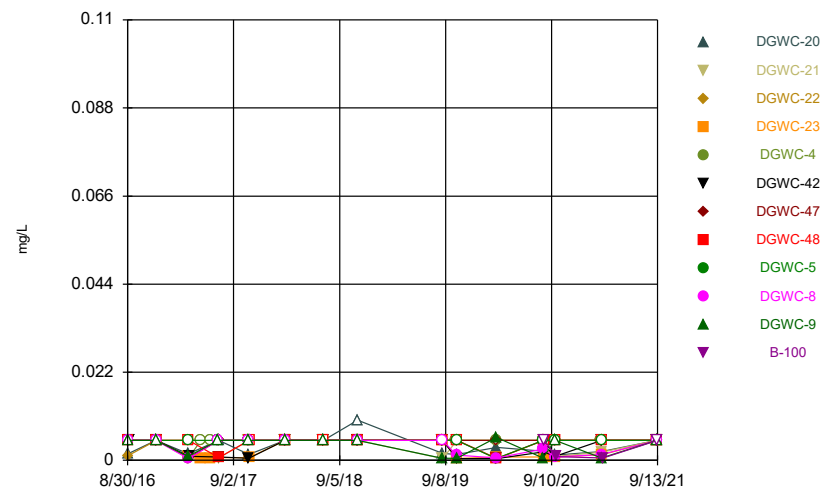
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### Time Series



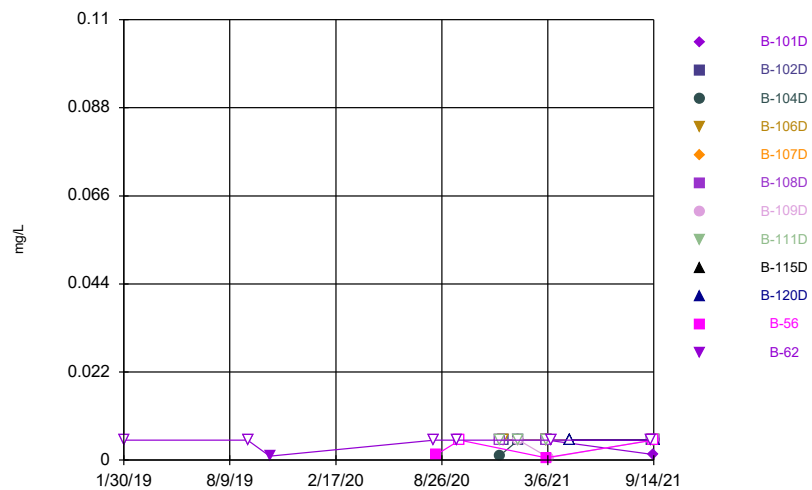
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### Time Series



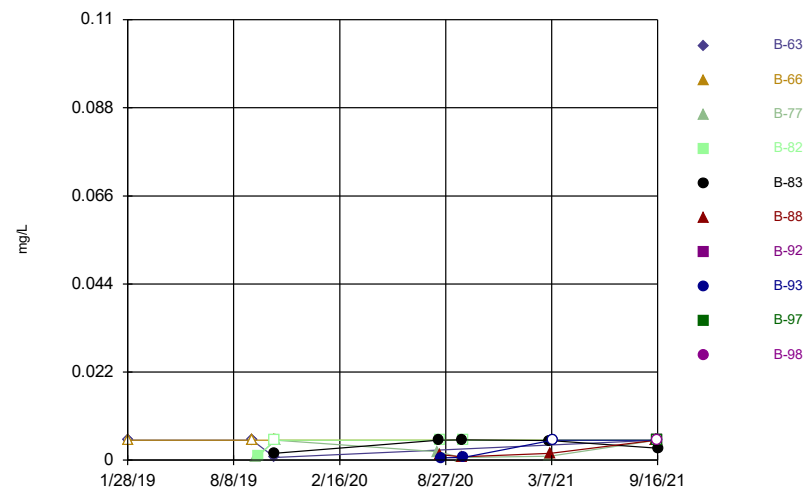
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



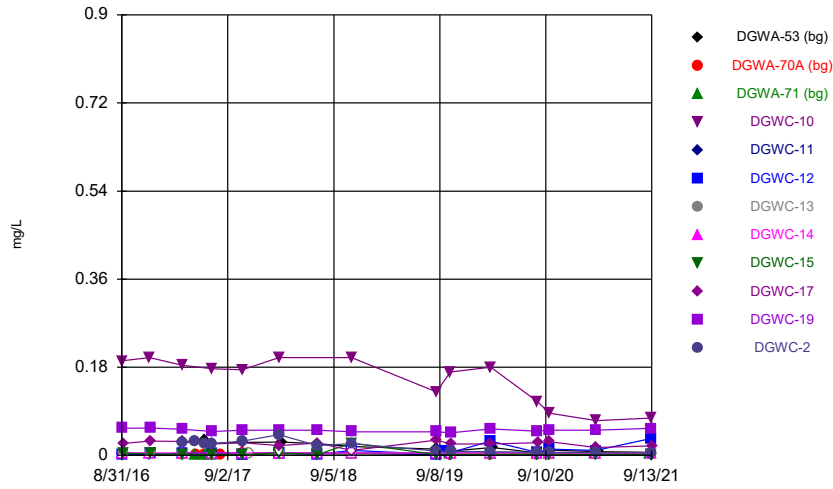
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



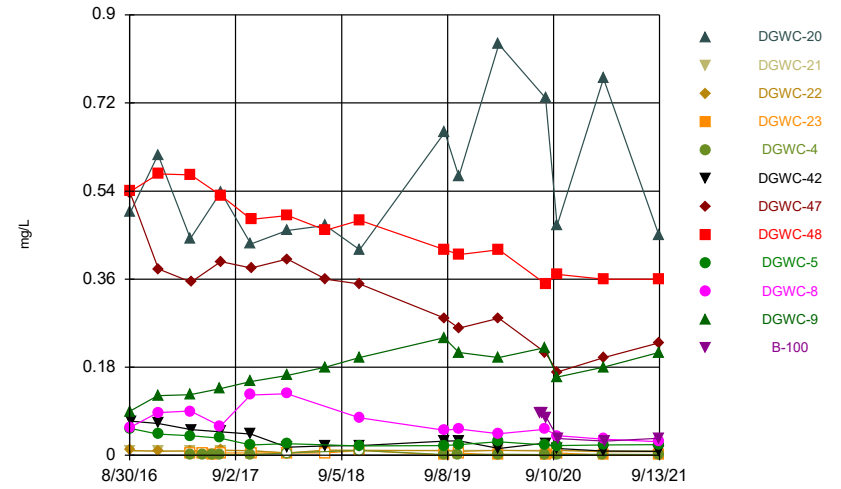
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Time Series



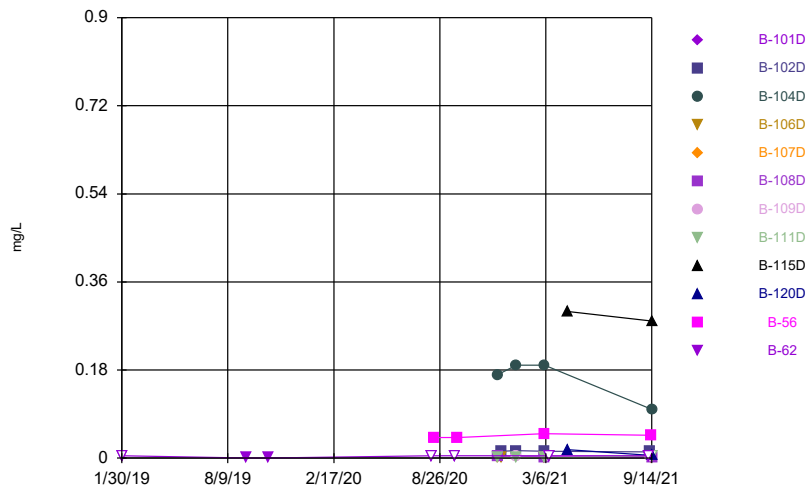
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



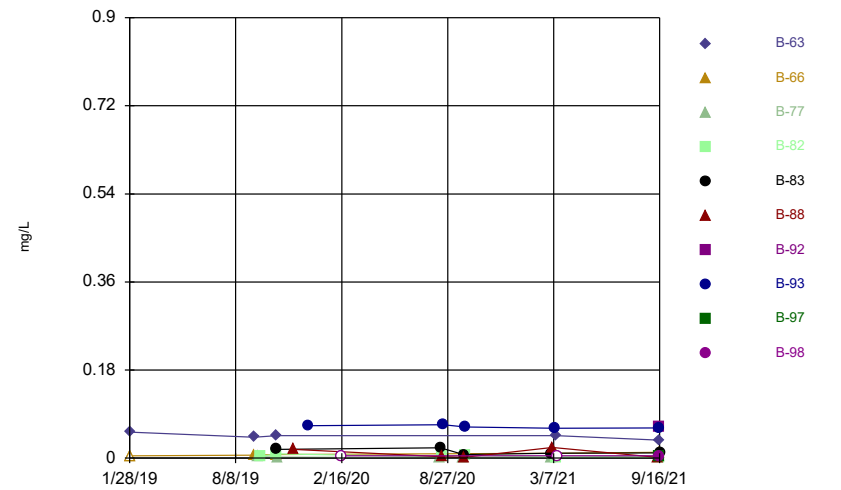
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



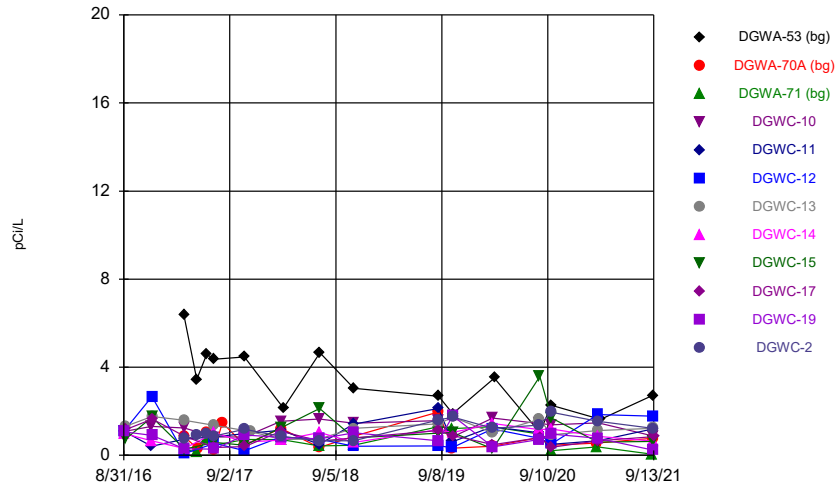
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Time Series



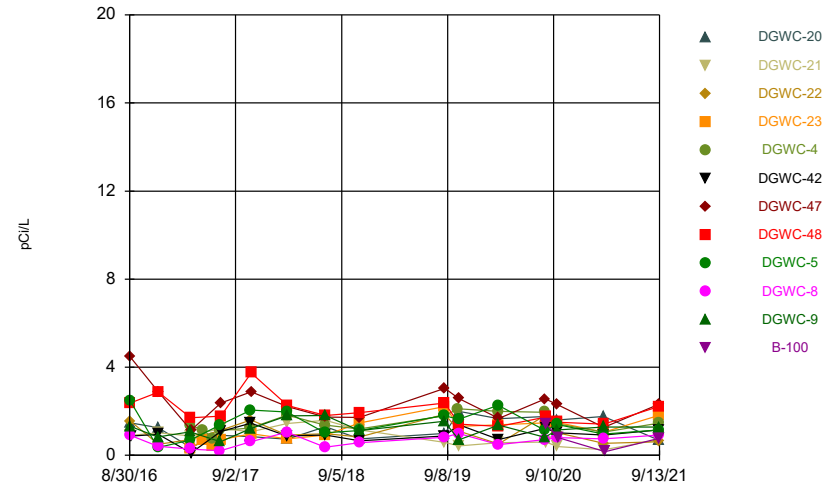
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### Time Series



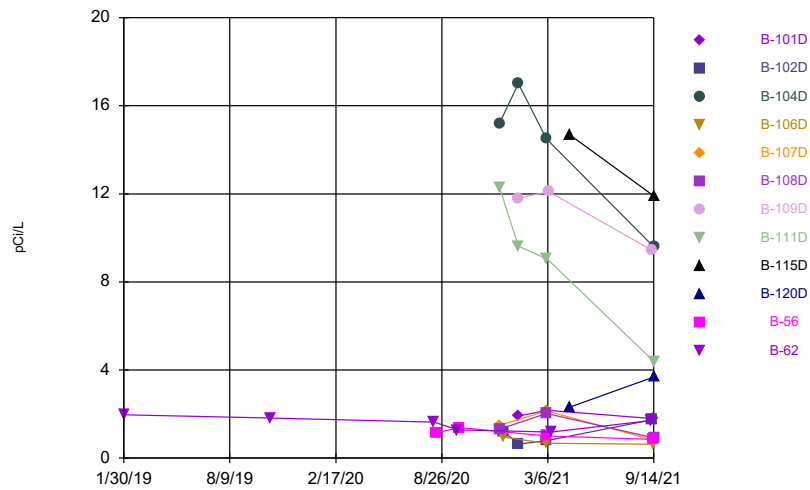
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



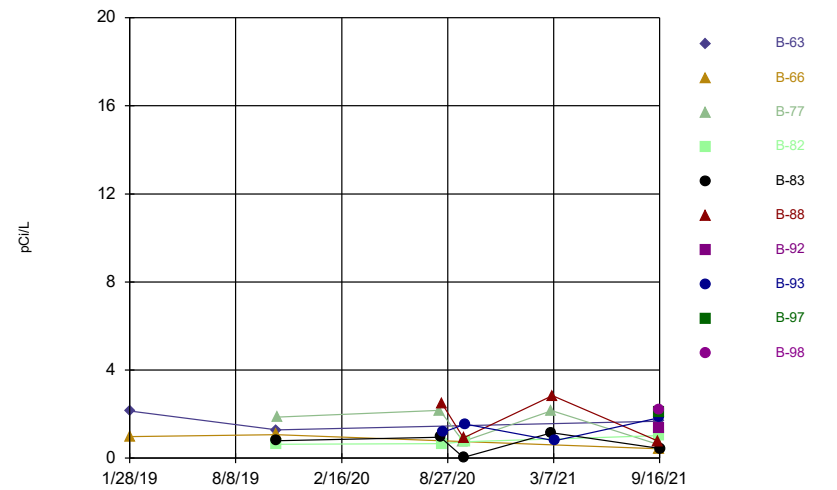
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### Time Series



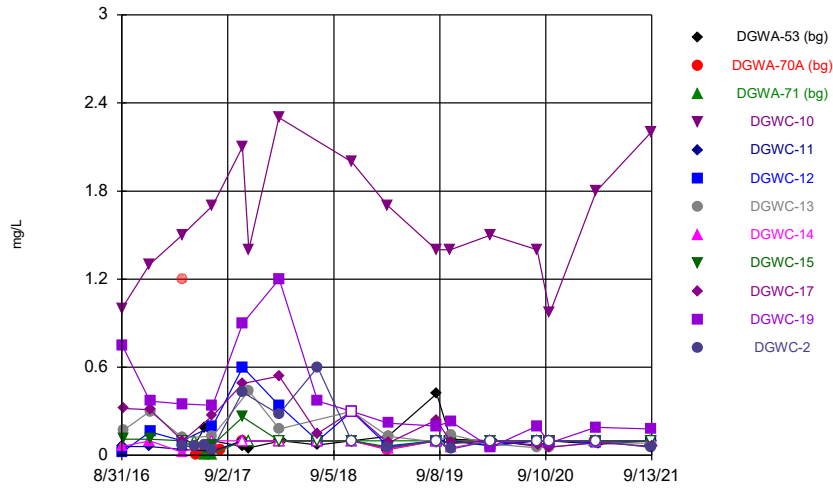
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### Time Series



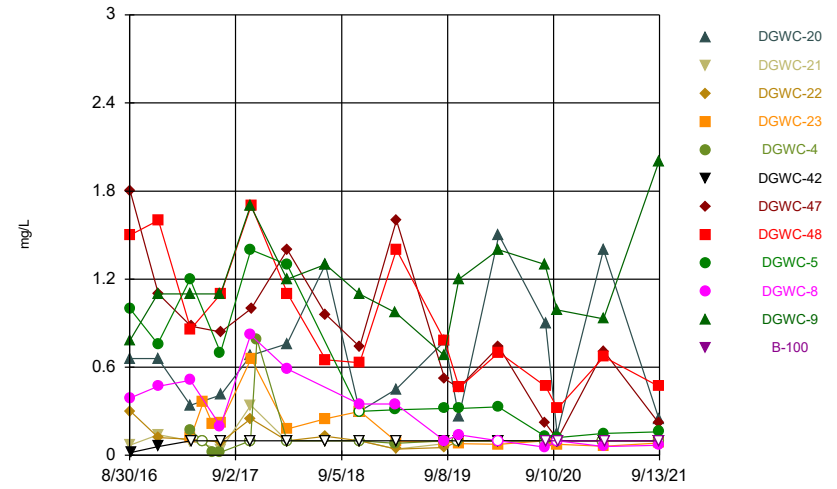
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



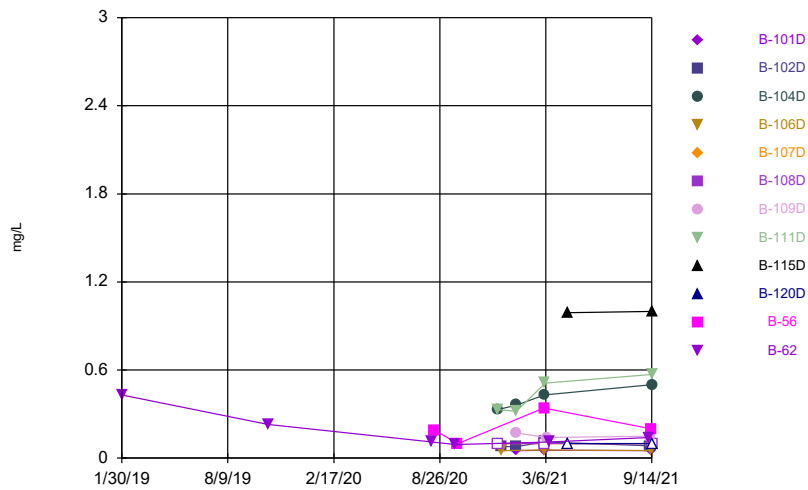
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



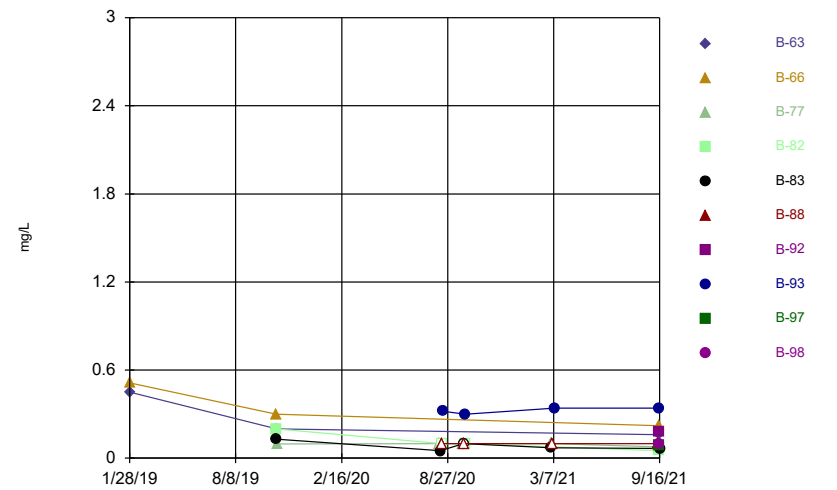
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



Constituent: Fluoride, total Analysis Run 11/8/2021 1:00 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

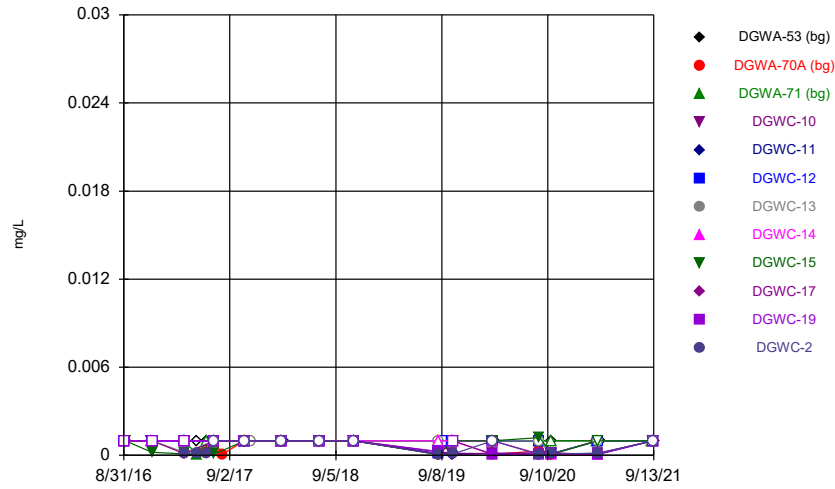
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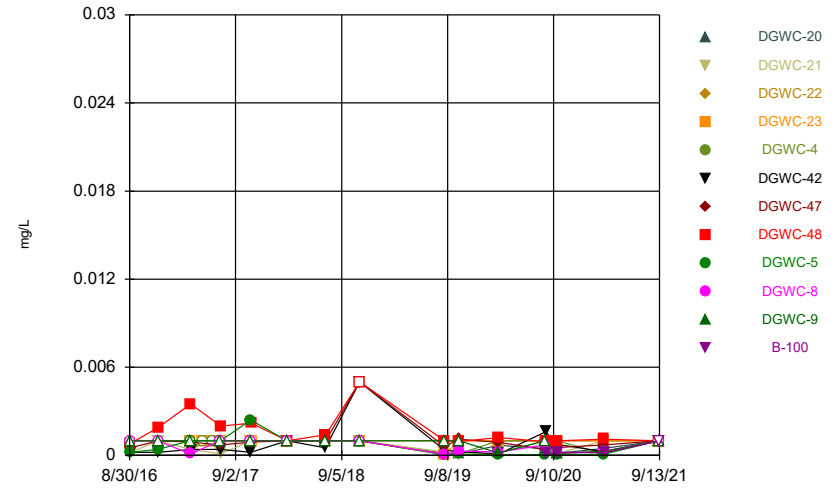
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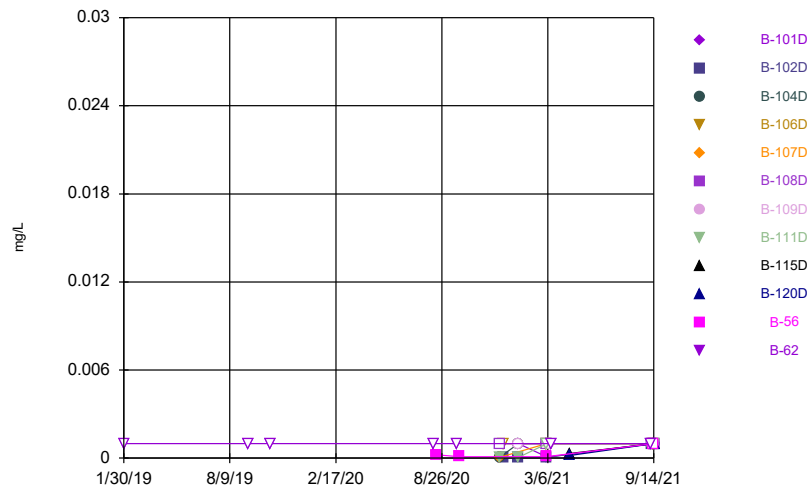
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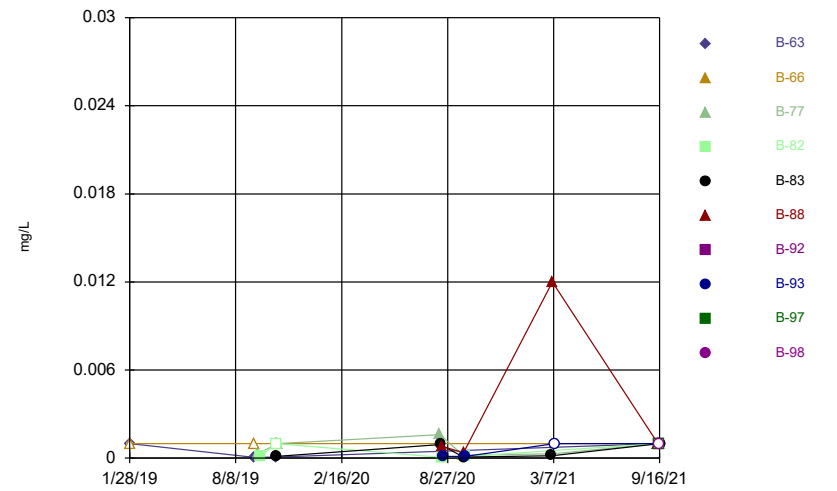
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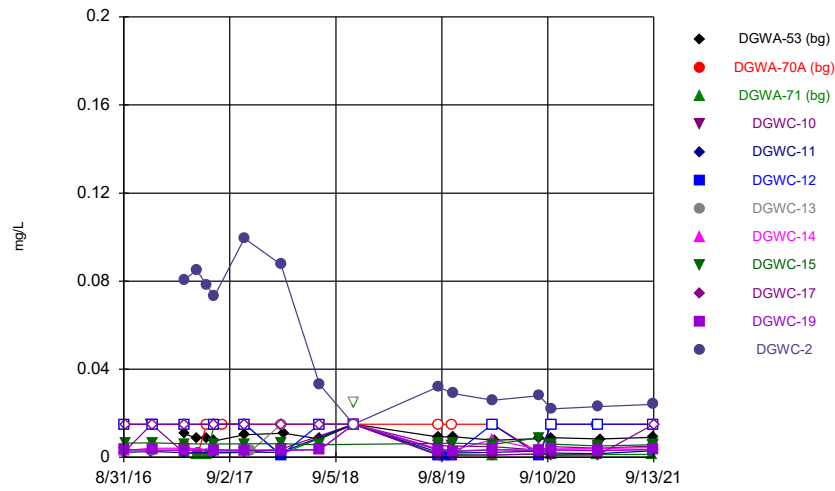
Time Series



Time Series

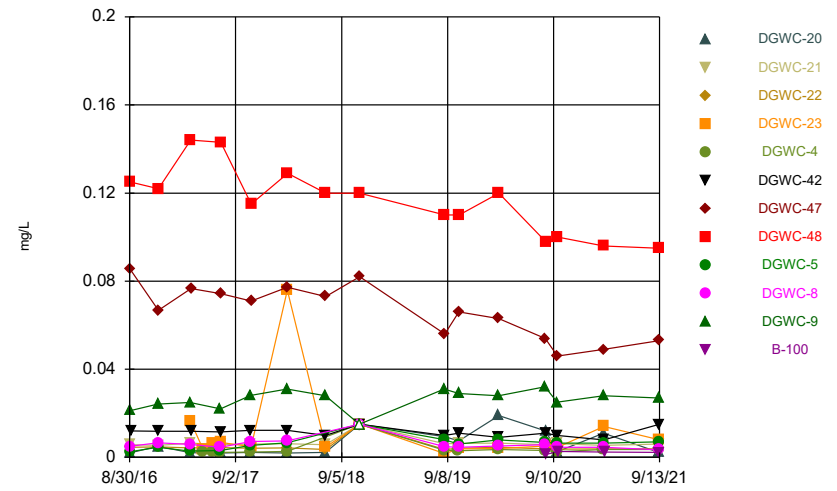


Time Series



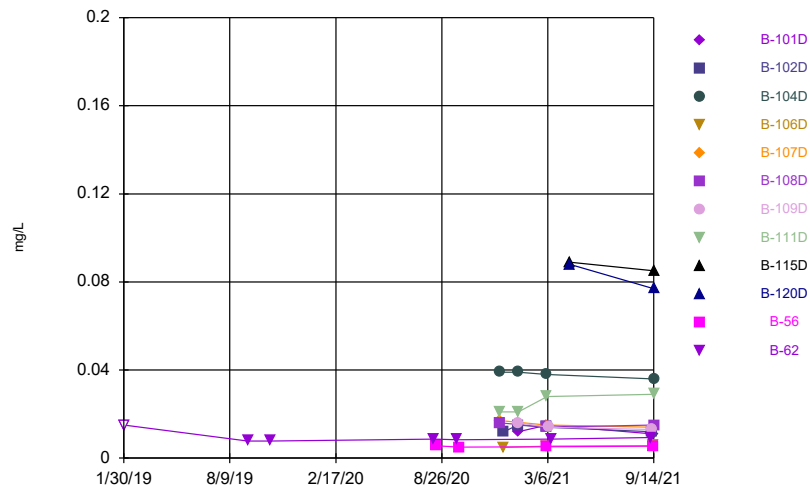
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Time Series



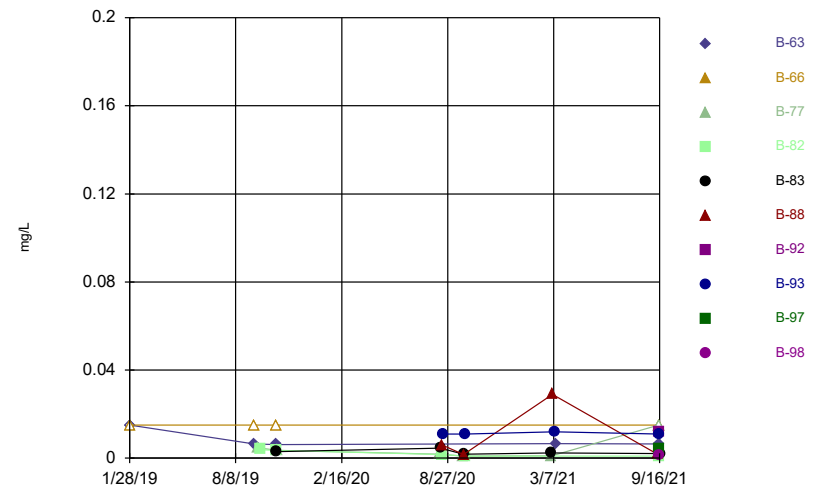
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



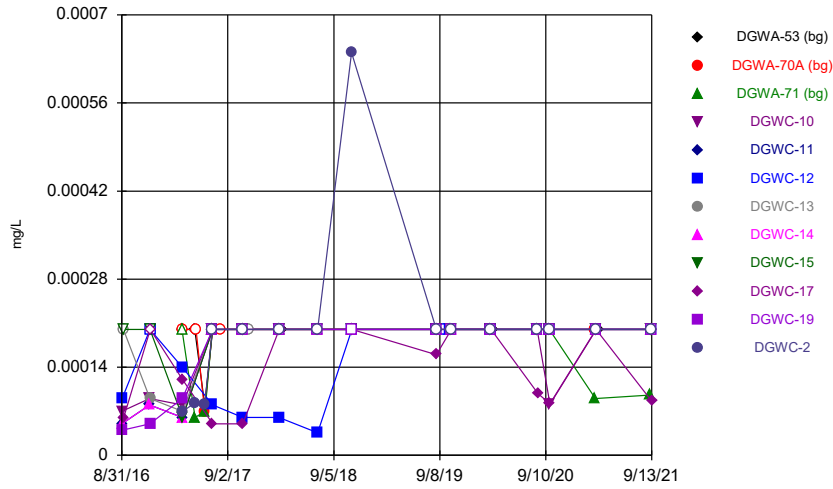
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Time Series



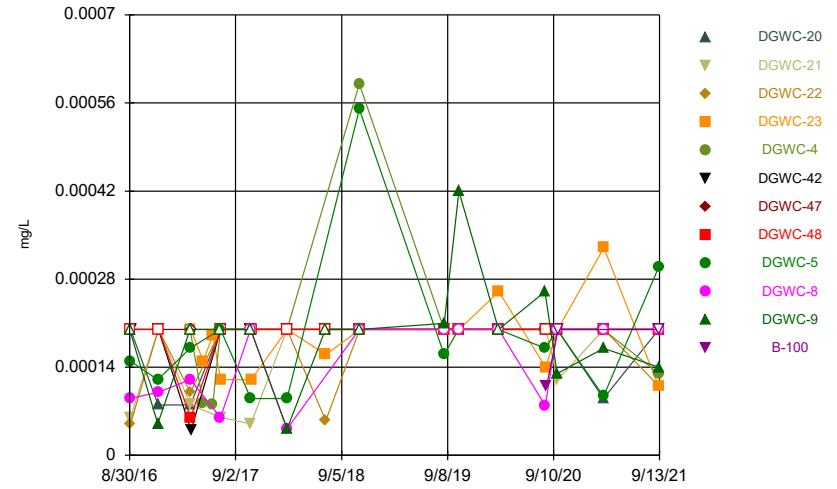
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



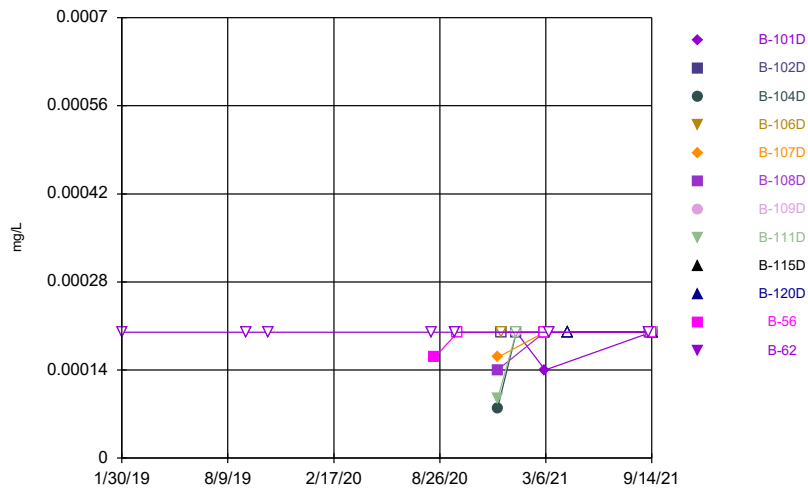
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Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



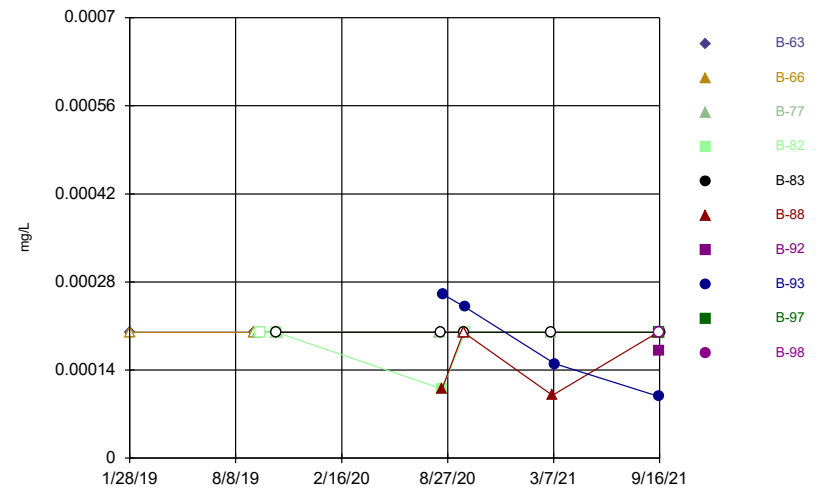
Constituent: Mercury Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



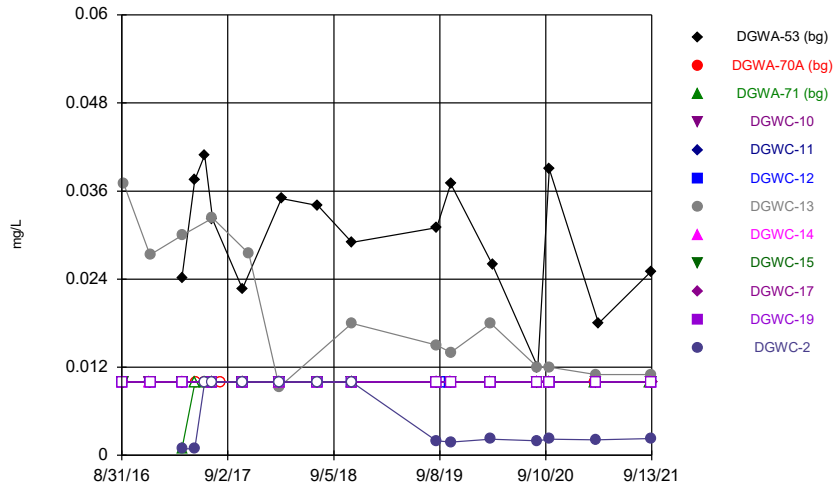
Constituent: Mercury Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



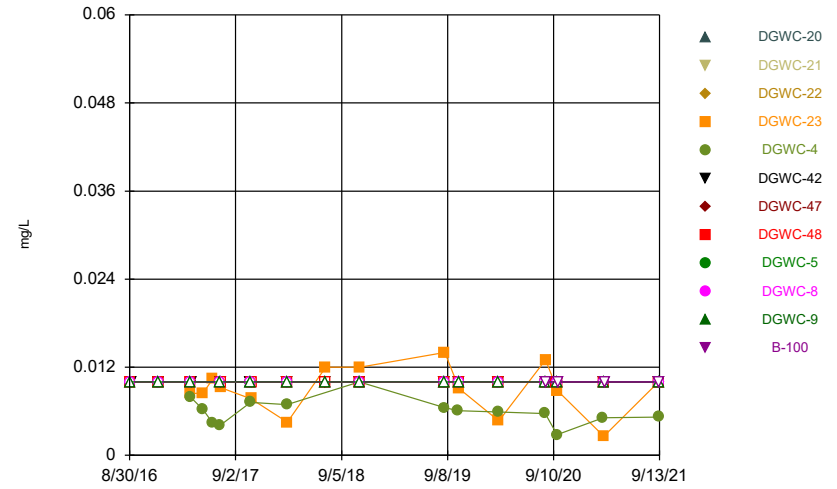
Constituent: Mercury Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



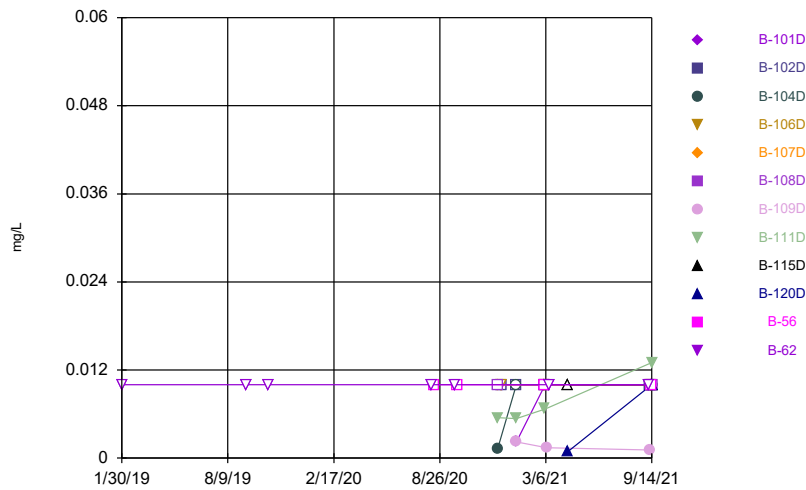
Constituent: Molybdenum Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



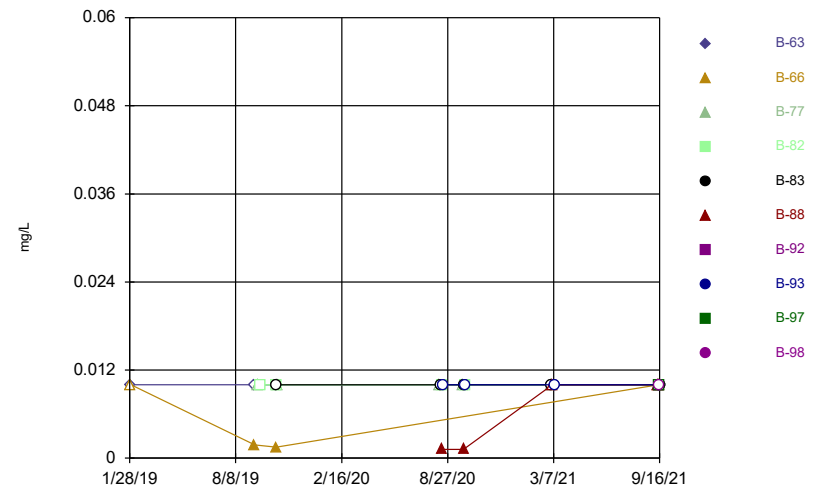
Constituent: Molybdenum Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



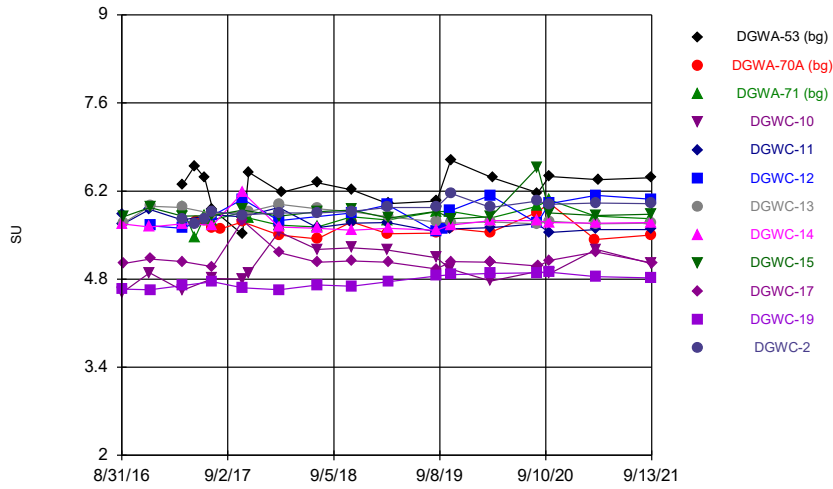
Constituent: Molybdenum Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



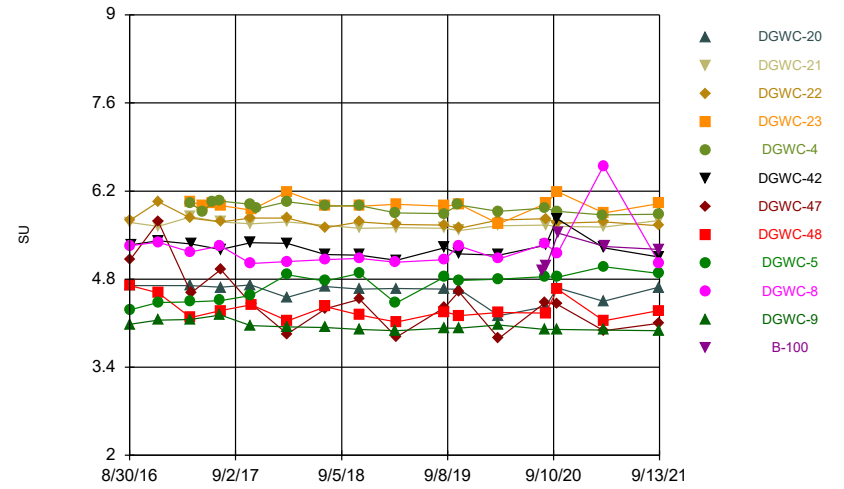
Constituent: Molybdenum Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



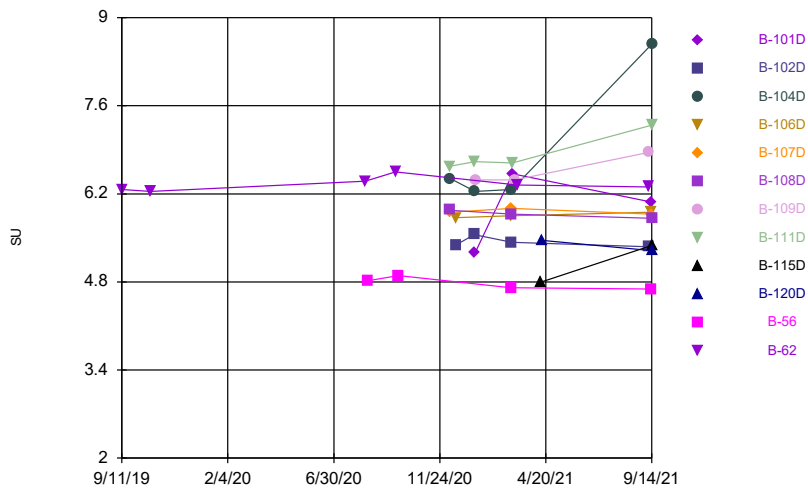
Constituent: pH, Field Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



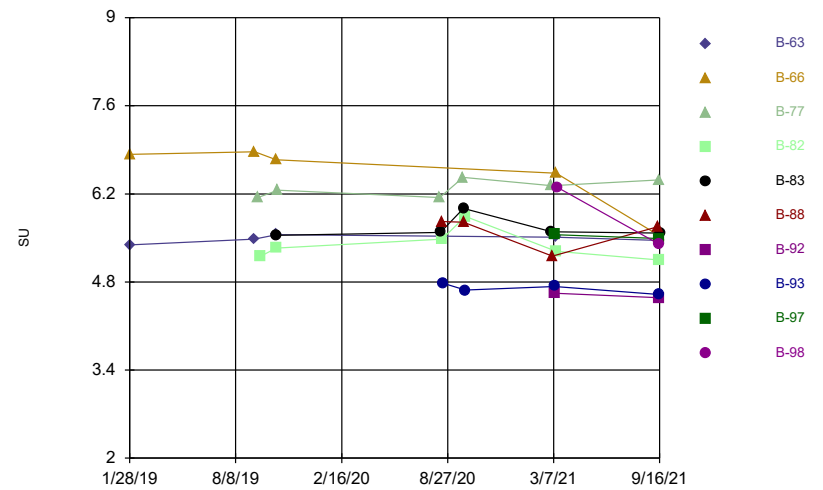
Constituent: pH, Field Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



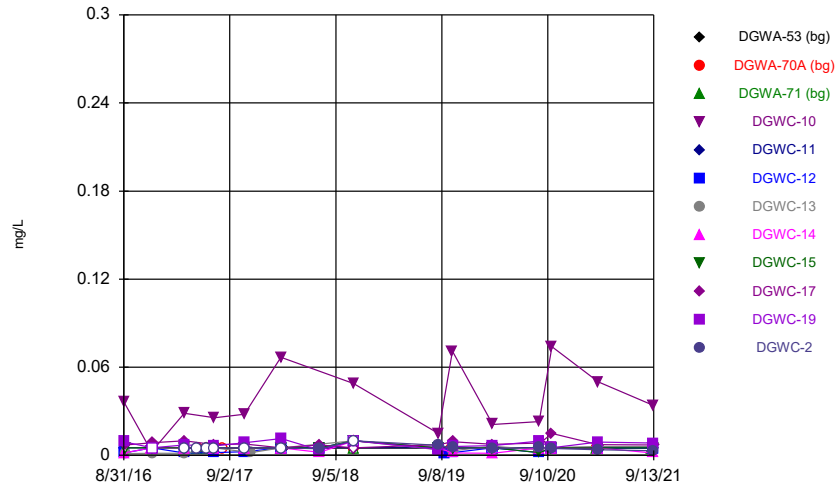
Constituent: pH, Field Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



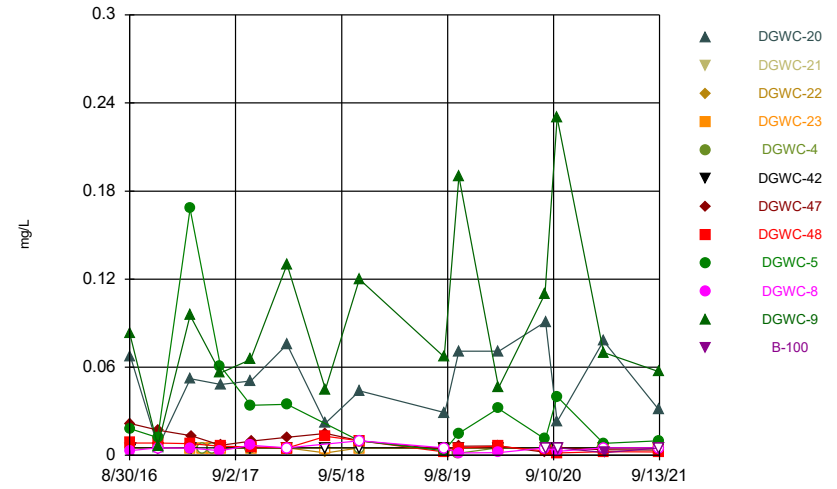
Constituent: pH, Field Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



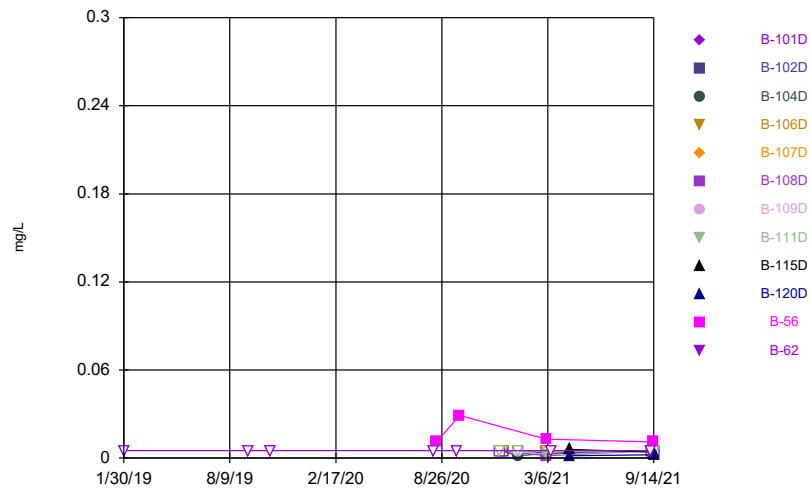
Constituent: Seleniun Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



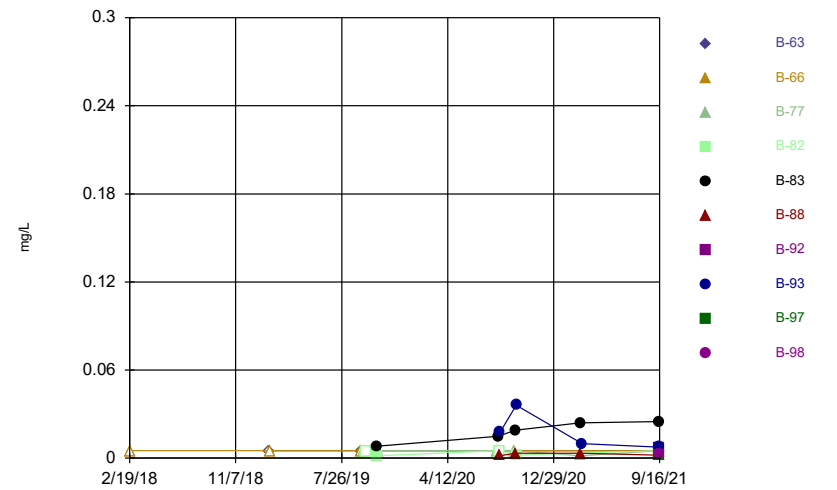
Constituent: Seleniun Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



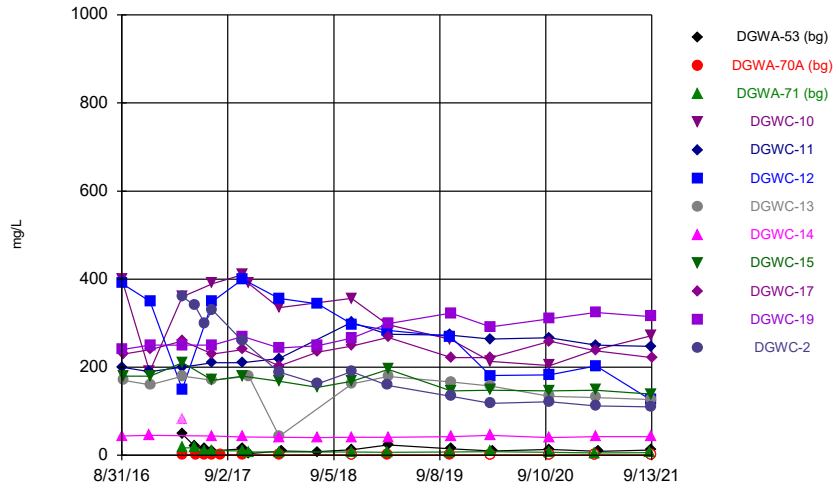
Constituent: Seleniun Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



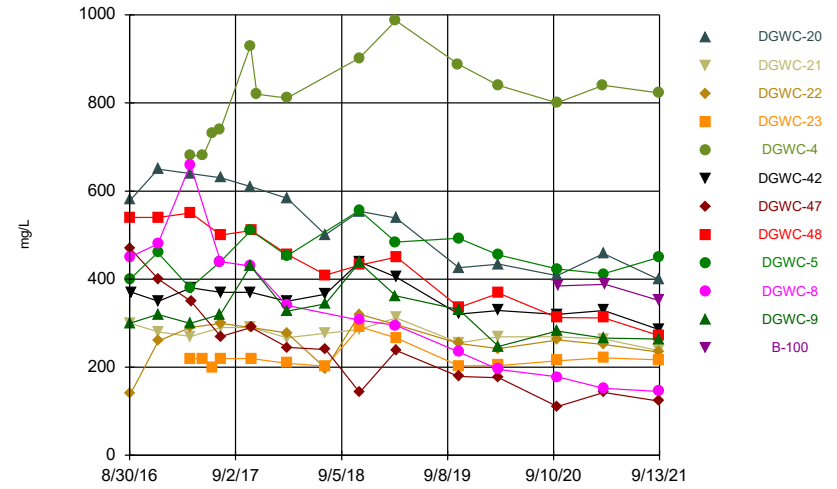
Constituent: Seleniun Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



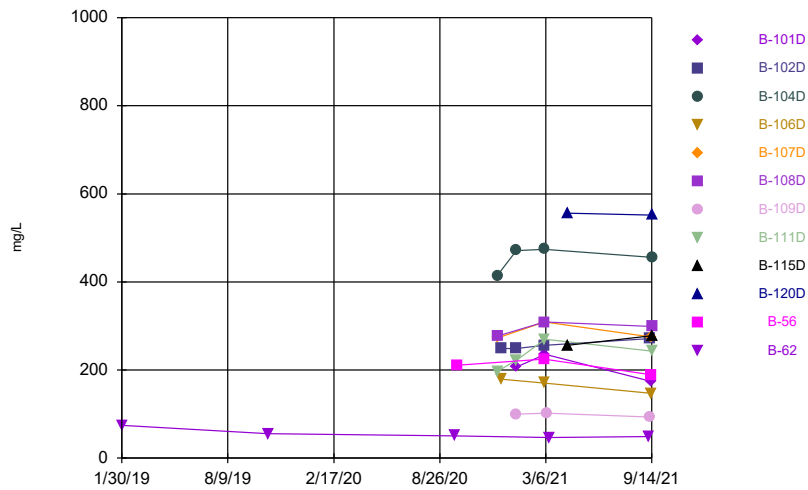
Constituent: Sulfate as SO4 Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



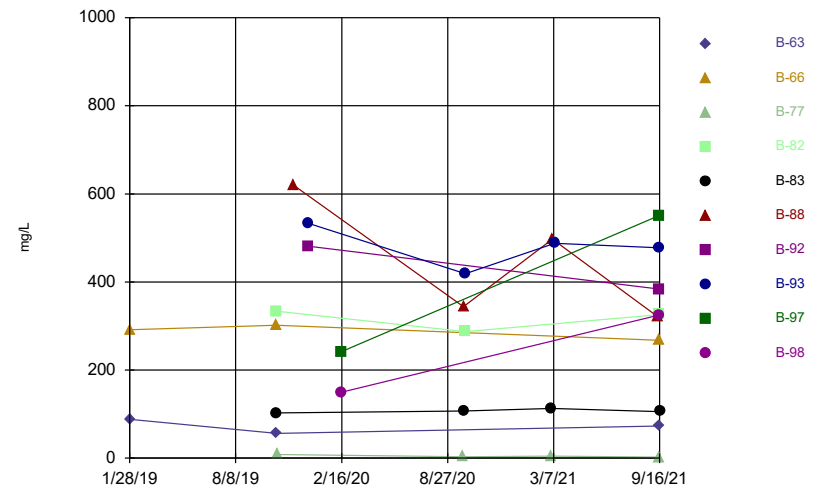
Constituent: Sulfate as SO4 Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



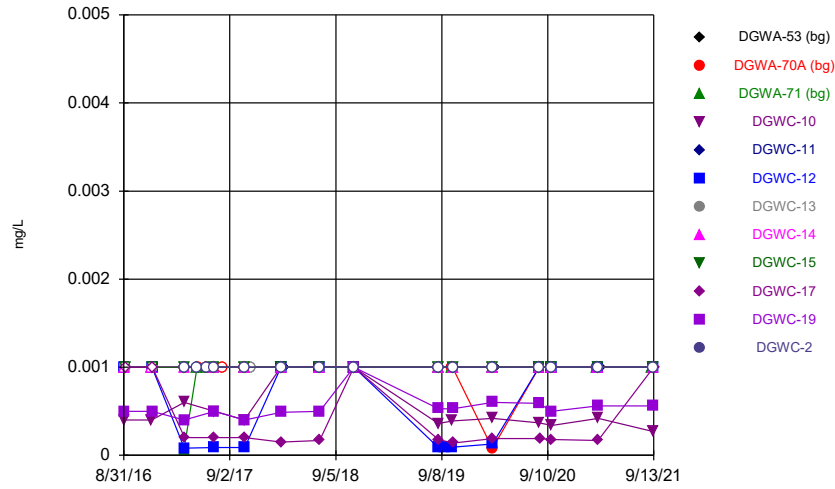
Constituent: Sulfate as SO4 Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



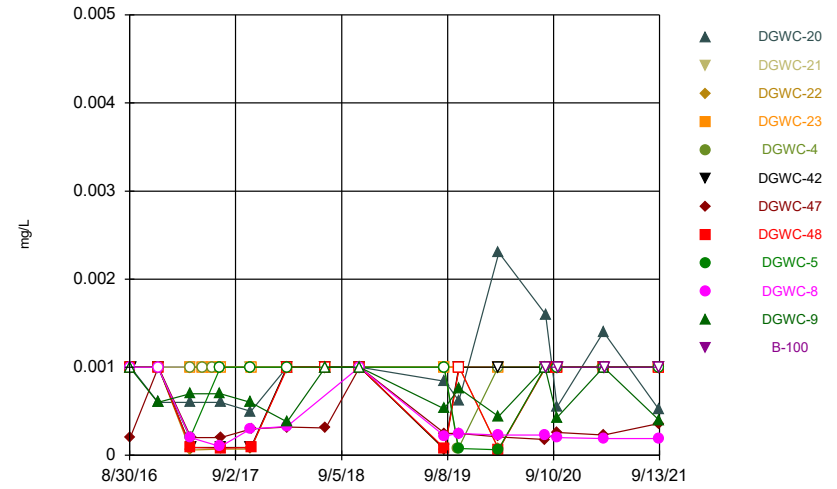
Constituent: Sulfate as SO4 Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



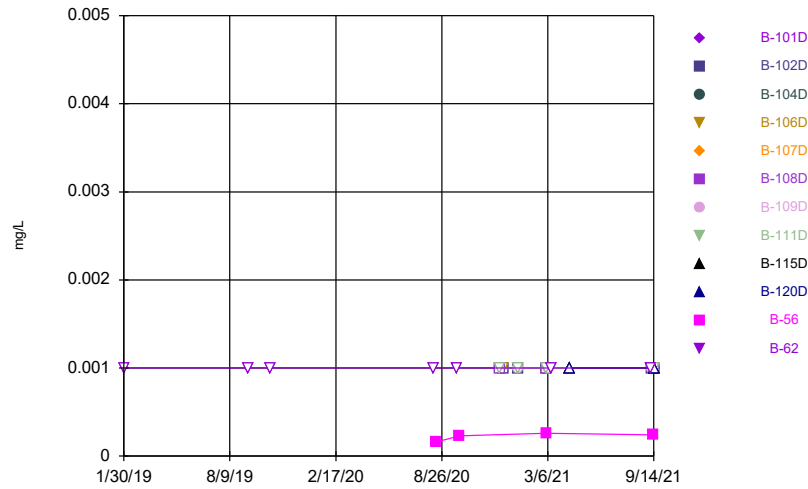
Constituent: Thallium Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



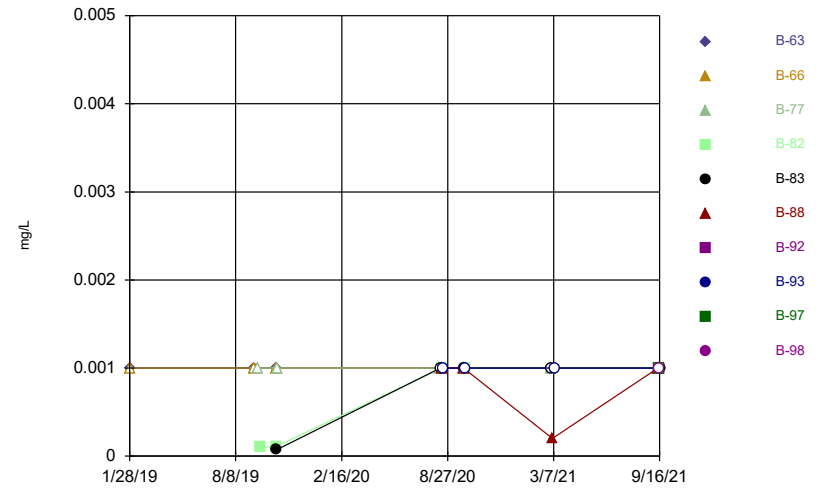
Constituent: Thallium Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



Constituent: Thallium Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

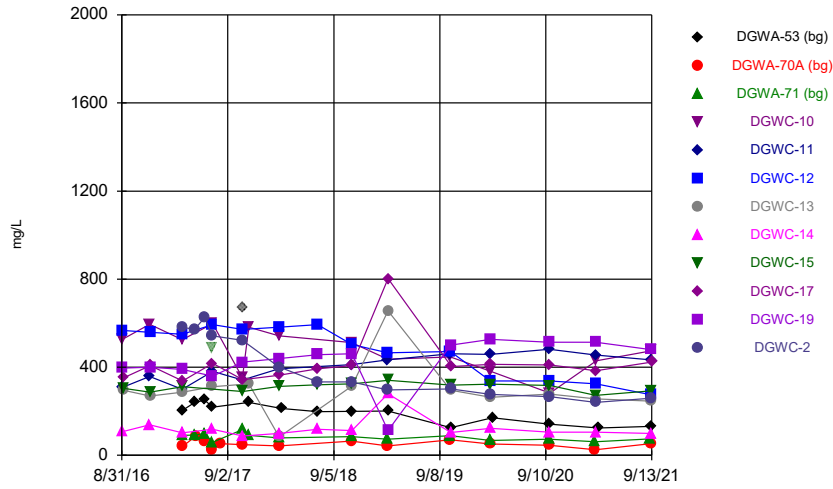
Time Series



Constituent: Thallium Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

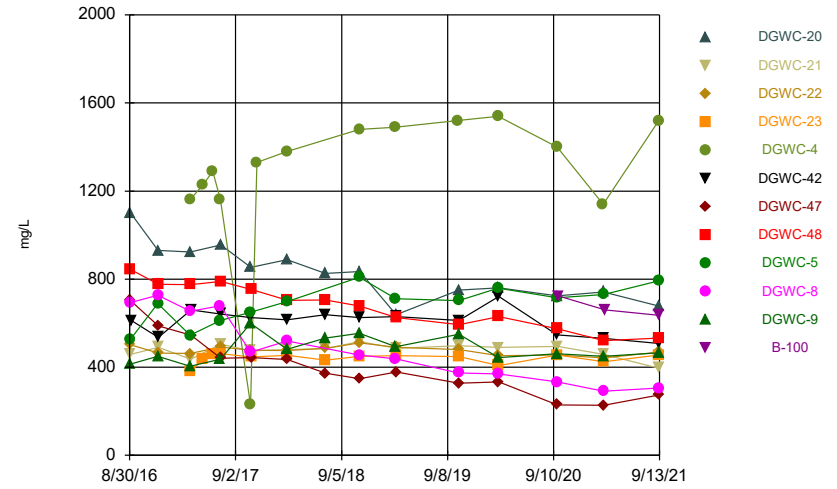


### Time Series



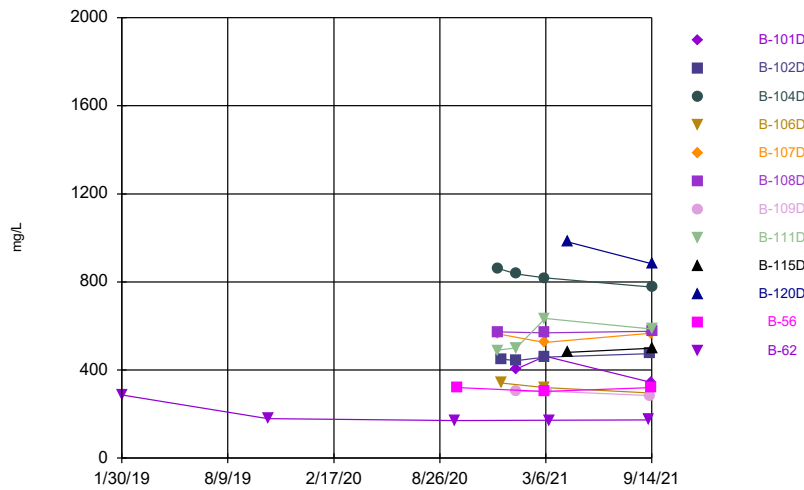
Constituent: Total Dissolved Solids [TDS] Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



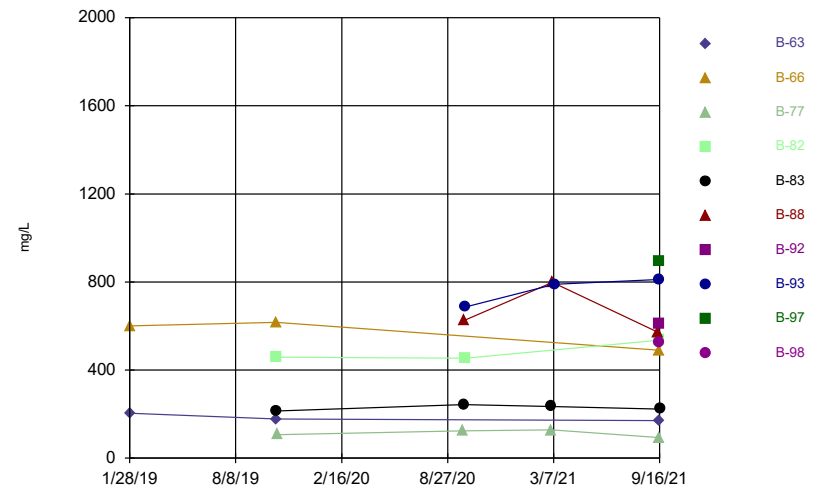
Constituent: Total Dissolved Solids [TDS] Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 11/8/2021 1:01 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

# Time Series

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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	<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 11/8/2021 1:03 PM View: AP 234  
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 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2
9/9/2021		<0.003	<0.003
9/10/2021			
9/13/2021	<0.003		



# Time Series

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
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 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			0.0013 (J)
9/22/2020		<0.003	
9/23/2020	<0.003		
9/24/2020			
9/25/2020			<0.003
3/1/2021			
3/2/2021	0.00046 (J)	<0.003	
3/3/2021			
3/8/2021			0.0017 (J)



# Time Series

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		<0.003	
9/13/2021	<0.003		<0.003

# Time Series

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.00079 (J)		<0.003	<0.003		<0.003	
12/17/2020		0.0016 (J)		0.00048 (J)					
1/11/2021		<0.003							
1/12/2021	0.00039 (J)		0.00048 (J)					<0.003	
1/13/2021							0.00042 (J)		
3/3/2021									
3/4/2021		<0.003	0.00077 (J)	<0.003	<0.003	<0.003			
3/5/2021	0.0019 (J)							0.0006 (J)	
3/8/2021							0.00084 (J)		
3/12/2021									
4/14/2021									<0.003
4/15/2021									
9/9/2021									
9/10/2021		<0.003					0.004		
9/13/2021	0.001 (J)			<0.003	<0.003				
9/14/2021			<0.003			<0.003		<0.003	<0.003

# Time Series

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
1/30/2019			<0.003
9/11/2019			<0.003
10/21/2019			<0.003
8/13/2020			<0.003
8/17/2020		<0.003	
9/24/2020			0.00046 (J)
9/28/2020		<0.003	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		<0.003	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.003
4/14/2021			
4/15/2021	0.00029 (J)		
9/9/2021			<0.003
9/10/2021			
9/13/2021		<0.003	
9/14/2021	<0.003		

# Time Series

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.003								
1/30/2019		<0.003							
9/11/2019	<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				
10/22/2019	0.00066 (J)								
10/24/2019			<0.003						
8/13/2020			0.00043 (J)						
8/14/2020					<0.003				
8/17/2020				<0.003		<0.003			
8/19/2020								<0.003	
9/24/2020			0.00036 (J)						
9/25/2020					<0.003	<0.003			
9/28/2020				<0.003				0.0014 (J)	
3/4/2021			0.00063 (J)		<0.003				
3/5/2021						<0.003			
3/9/2021								<0.003	
9/13/2021						<0.003			
9/14/2021	<0.003	<0.003	<0.003	<0.003					
9/15/2021							<0.003	<0.003	<0.003
9/16/2021					<0.003				

# Time Series

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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  
9/24/2020  
9/25/2020  
9/28/2020  
3/4/2021  
3/5/2021  
3/9/2021  
9/13/2021  
9/14/2021  
9/15/2021  
9/16/2021

<0.003

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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 11/8/2021 1:03 PM View: AP 234  
 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 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.0027 (J)	<0.005
9/10/2021			
9/13/2021	<0.005		

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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)	
7/23/2020									
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						
8/17/2020									
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					
9/25/2020									
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	

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
3/8/2021									
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 11/8/2021 1:03 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
7/23/2020			<0.005
8/11/2020		0.022	
8/12/2020	<0.005		
8/13/2020			
8/14/2020			
8/17/2020			<0.005
9/22/2020		0.04	
9/23/2020	<0.005		
9/24/2020			
9/25/2020			<0.005
3/1/2021			
3/2/2021	<0.005	0.021	
3/3/2021			

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
3/8/2021			<0.005
9/9/2021			
9/10/2021		0.031	
9/13/2021	<0.005		<0.005

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			<0.005		<0.005	<0.005		<0.005	
12/17/2020		<0.005		<0.005					
1/11/2021		<0.005							
1/12/2021	<0.005		<0.005					<0.005	
1/13/2021							<0.005		
3/3/2021									
3/4/2021		<0.005	0.0025 (J)	<0.005	<0.005	<0.005			
3/5/2021	0.0017 (J)							0.0023 (J)	
3/8/2021							<0.005		
3/12/2021									
4/14/2021									0.0028 (J)
4/15/2021									
9/9/2021									
9/10/2021		<0.005					<0.005		
9/13/2021	<0.005			<0.005	<0.005				
9/14/2021			0.0019 (J)			<0.005		0.0029 (J)	0.0018 (J)

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.003 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/14/2021			
4/15/2021	<0.005		
9/9/2021			<0.005
9/10/2021			
9/13/2021		0.0031 (J)	
9/14/2021	<0.005		

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
11/22/2016		<0.005							
2/19/2018		<0.005							
1/28/2019	<0.005								
1/30/2019		<0.005							
9/11/2019	<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				
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		<0.005			
8/19/2020								0.0013 (J)	
9/24/2020			0.0025 (J)						
9/25/2020					<0.005	<0.005			
9/28/2020				<0.005				0.0027 (J)	
3/4/2021			0.002 (J)		<0.005				
3/5/2021						<0.005			
3/9/2021								<0.005	
3/12/2021		<0.005		<0.005					
9/13/2021						<0.005			
9/14/2021	<0.005	<0.005	<0.005	<0.005					
9/15/2021							0.0012 (J)	<0.005	<0.005
9/16/2021					<0.005				



# Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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  
9/24/2020  
9/25/2020  
9/28/2020  
3/4/2021  
3/5/2021  
3/9/2021  
3/12/2021  
9/13/2021  
9/14/2021  
9/15/2021  
9/16/2021

<0.005

# Time Series

Constituent: Barium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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 11/8/2021 1:03 PM View: AP 234  
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 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.025	0.022
9/10/2021			
9/13/2021	0.031		



# Time Series

Constituent: Barium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
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 11/8/2021 1:03 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			0.015
9/22/2020		0.015	
9/23/2020	0.025		
9/24/2020			
9/25/2020			0.022
3/1/2021			
3/2/2021	0.029	0.017	
3/3/2021			
3/8/2021			0.022



# Time Series

Constituent: Barium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.014	
9/13/2021	0.019		0.021

# Time Series

Constituent: Barium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.026		0.13	0.066		0.027	
12/17/2020		0.022		0.022					
1/11/2021		0.024							
1/12/2021	0.076		0.022					0.027	
1/13/2021							0.06		
3/3/2021									
3/4/2021		0.022	0.021	0.021	0.12	0.06			
3/5/2021	0.064							0.038	
3/8/2021							0.056		
3/12/2021									
4/14/2021									0.018
4/15/2021									
9/9/2021									
9/10/2021		0.02					0.022		
9/13/2021	0.076			0.02	0.087				
9/14/2021			0.021			0.06		0.043	0.016

# Time Series

Constituent: Barium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
1/30/2019			0.018
9/11/2019			0.023
10/21/2019			0.026
8/13/2020			0.026
8/17/2020		0.03	
9/24/2020			0.025
9/28/2020		0.026	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.028	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.027
4/14/2021			
4/15/2021	0.044		
9/9/2021			0.021
9/10/2021			
9/13/2021		0.026	
9/14/2021	0.031		

# Time Series

Constituent: Barium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	0.028								
1/30/2019		0.016							
9/11/2019	0.021								
9/12/2019		0.017							
9/18/2019			0.086						
9/23/2019				0.031					
10/21/2019		0.018		0.03	0.034				
10/22/2019	0.021								
10/24/2019			0.1						
8/13/2020			0.11						
8/14/2020					0.056				
8/17/2020				0.024		0.022			
8/19/2020								0.018	
9/24/2020			0.12						
9/25/2020					0.027	0.021			
9/28/2020				0.023				0.017	
3/4/2021			0.11		0.032				
3/5/2021						0.022			
3/9/2021								0.016 (J)	
9/13/2021						0.016			
9/14/2021	0.026	0.018	0.12	0.022					
9/15/2021							0.015	0.016	0.02
9/16/2021					0.03				

# Time Series

Constituent: Barium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	0.082
9/16/2021	





# Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2
9/8/2021			
9/9/2021		0.0022	<0.0005
9/10/2021			
9/13/2021	0.00052		



# Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
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 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			0.0004 (J)
9/22/2020		0.0049	
9/23/2020	0.0015 (J)		
9/24/2020			
9/25/2020			0.00035 (J)
3/1/2021			
3/2/2021	0.0012	0.005	
3/3/2021			
3/8/2021			0.00046 (J)

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.0049	
9/13/2021	0.0015		0.00053

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
10/6/2016									
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.0013 (J)		<0.0005	<0.0005		<0.0005	
12/17/2020		0.0014 (J)		0.00012 (J)					
1/11/2021		0.0013 (J)							
1/12/2021	6.6E-05 (J)		0.0015 (J)					<0.0005	
1/13/2021							5.9E-05 (J)		
3/3/2021									
3/4/2021		0.0012	0.0015	0.00013 (J)	5E-05 (J)	<0.0005			
3/5/2021	4.7E-05 (J)							<0.0005	
3/8/2021							7.9E-05 (J)		
3/12/2021									
4/14/2021									0.012
4/15/2021									
9/9/2021									
9/10/2021		0.0011					<0.0005		
9/13/2021	6.7E-05 (J)			0.00013 (J)	<0.0005				
9/14/2021			0.0011			<0.0005		<0.0005	0.011

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
10/6/2016			9E-05 (J)
1/30/2019			<0.0005
9/11/2019			0.00012 (J)
10/21/2019			7.8E-05 (J)
8/13/2020			0.00011 (J)
8/17/2020		0.0013 (J)	
9/24/2020			0.00013 (J)
9/28/2020		0.0012 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.0011	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.0005
4/14/2021			
4/15/2021	0.00085		
9/9/2021			0.00014 (J)
9/10/2021			
9/13/2021		0.0012	
9/14/2021	0.00087		

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
10/7/2016	0.0004 (J)								
11/22/2016		<0.0005							
2/19/2018	0.00049 (J)	<0.0005							
1/28/2019	<0.0005								
1/30/2019		<0.0005							
9/11/2019	0.00035 (J)								
9/12/2019		<0.0005							
9/18/2019			0.00011 (J)						
9/23/2019				0.0015 (J)					
10/21/2019		<0.0005		0.0011 (J)	0.00039 (J)				
10/22/2019	0.0003 (J)								
10/24/2019			<0.0005						
12/18/2019							0.022		
12/19/2019								0.0069	
2/17/2020									<0.0005
2/27/2020									0.0019 (J)
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	0.0019
3/15/2021									
9/13/2021						0.001			
9/14/2021	0.00042 (J)	<0.0005	<0.0005	0.0017					
9/15/2021							0.014	0.015	0.0016
9/16/2021					0.00028 (J)				



# Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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	
2/17/2020	<0.0005
2/27/2020	<0.0005
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
3/15/2021	<0.0005
9/13/2021	
9/14/2021	
9/15/2021	0.00087
9/16/2021	



# Time Series

Constituent: Boron, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
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, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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					
9/25/2020									
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	
3/8/2021									
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			

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
9/25/2020			0.27
3/1/2021			
3/2/2021	0.96	0.77	
3/3/2021			
3/8/2021			0.24
9/9/2021			
9/10/2021		0.54	
9/13/2021	0.86		0.24

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
10/6/2016									
1/30/2019									
9/11/2019									
10/21/2019									
9/24/2020									
9/28/2020									
12/9/2020			0.26 (J)		11.7	6.7		0.34 (J)	
12/17/2020		2.4		1.4					
1/11/2021		2.7							
1/12/2021	1.7		0.28					0.26	
1/13/2021							0.46		
3/3/2021									
3/4/2021		2.5	0.26	1.4	12	6.4			
3/5/2021	1.9							0.44	
3/8/2021							0.55		
3/12/2021									
4/14/2021									0.69
4/15/2021									
9/9/2021									
9/10/2021		2.5					0.41		
9/13/2021	1.6			1.3	10.7				
9/14/2021			0.23			6.8		0.32	0.61

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
10/6/2016			0.053 (J)
1/30/2019			0.14
9/11/2019			0.068
10/21/2019			0.058
9/24/2020			0.074 (J)
9/28/2020		1.4	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		1.4	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.092 (J)
4/14/2021			
4/15/2021	1.9		
9/9/2021			0.068
9/10/2021			
9/13/2021		1.5	
9/14/2021	1.7		

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
11/22/2016		1.1							
1/28/2019	0.44								
1/30/2019		2							
9/11/2019	0.26								
9/12/2019		2							
9/18/2019			0.3						
9/23/2019				1.4					
10/21/2019		1.9		1.2	0.28				
10/22/2019	0.22								
10/24/2019			0.31						
11/22/2019						3.6			
12/18/2019							3.9		
12/19/2019								3.3	
9/24/2020			0.27						
9/25/2020					0.35	1.8			
9/28/2020				1.1				3	
3/4/2021			0.35		0.33				
3/5/2021						3.5			
3/9/2021							2.9	3.4	
9/13/2021						2			
9/14/2021	0.35	2.1	0.29	0.78					
9/15/2021							2.3	3.1	3.3
9/16/2021					0.3				



# Time Series

Constituent: Boron, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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B-98

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  
9/24/2020  
9/25/2020  
9/28/2020  
3/4/2021  
3/5/2021  
3/9/2021  
9/13/2021  
9/14/2021  
9/15/2021  
9/16/2021

2.6

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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 11/8/2021 1:03 PM View: AP 234

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 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.00037 (J)	<0.0005
9/10/2021			
9/13/2021	0.00023 (J)		



# Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
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 11/8/2021 1:03 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			0.00059 (J)
9/22/2020		0.00059 (J)	
9/23/2020	0.0018 (J)		
9/24/2020			
9/25/2020			0.00027 (J)
3/1/2021			
3/2/2021	0.0017	0.00057	
3/3/2021			
3/8/2021			0.00027 (J)



# Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.00053	
9/13/2021	0.002		0.00029 (J)

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			<0.0005		<0.0005	<0.0005		<0.0005	
12/17/2020		0.00067 (J)		0.0002 (J)					
1/11/2021		0.0008 (J)							
1/12/2021	<0.0005		<0.0005					<0.0005	
1/13/2021							<0.0005		
3/3/2021									
3/4/2021		0.00081	<0.0005	0.00021 (J)	<0.0005	<0.0005			
3/5/2021	<0.0005							<0.0005	
3/8/2021							<0.0005		
3/12/2021									
4/14/2021									0.00041 (J)
4/15/2021									
9/9/2021									
9/10/2021		0.00083					<0.0005		
9/13/2021	<0.0005			0.00024 (J)	<0.0005				
9/14/2021			<0.0005			<0.0005		<0.0005	0.00035 (J)

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
1/30/2019			<0.0005
9/11/2019			<0.0005
10/21/2019			<0.0005
8/13/2020			<0.0005
8/17/2020		0.00029 (J)	
9/24/2020			<0.0005
9/28/2020		0.00024 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.00026 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.0005
4/14/2021			
4/15/2021	0.001		
9/9/2021			<0.0005
9/10/2021			
9/13/2021		0.00028 (J)	
9/14/2021	0.0011		

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.0005								
1/30/2019		<0.0005							
9/11/2019	<0.0005								
9/12/2019		<0.0005							
9/18/2019			<0.0005						
9/23/2019				0.00044 (J)					
10/21/2019		<0.0005		0.00035 (J)	0.00041 (J)				
10/22/2019	0.00014 (J)								
10/24/2019			<0.0005						
8/13/2020			<0.0005						
8/14/2020					0.00037 (J)				
8/17/2020				0.00058 (J)		0.0018 (J)			
8/19/2020								0.00077 (J)	
9/24/2020			<0.0005						
9/25/2020					0.00026 (J)	0.00022 (J)			
9/28/2020				0.00066 (J)				0.00074 (J)	
3/4/2021			<0.0005		0.00032 (J)				
3/5/2021						0.0065			
3/9/2021								0.00075 (J)	
9/13/2021						0.0013			
9/14/2021	0.00025 (J)	<0.0005	<0.0005	0.0007					
9/15/2021							0.00096	0.00088	0.00056
9/16/2021					0.0003 (J)				

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	0.0003 (J)
9/16/2021	



# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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		

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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					
9/25/2020									
3/1/2021					322				
3/2/2021	74.7								114
3/3/2021		82.1	62.3	68.1		38.8	25.5	66	
3/8/2021									
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			



# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
9/25/2020			44.7
3/1/2021			
3/2/2021	35.6	48.8	
3/3/2021			
3/8/2021			47.7
9/9/2021			
9/10/2021		47.7	
9/13/2021	36		51.5

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
9/24/2020									
9/28/2020									
12/9/2020			154		85.4	90.5		105	
12/17/2020		71.5		43.2					
1/11/2021		73							
1/12/2021	56.3		156					103	
1/13/2021							40.3		
3/3/2021									
3/4/2021		79.7	150	42.1	83.9	86.6			
3/5/2021	68.9							110	
3/8/2021							40.2		
3/12/2021									
4/14/2021									52
4/15/2021									
9/9/2021									
9/10/2021		84.7					42.1		
9/13/2021	53.6			42.1	83.6				
9/14/2021			151			83.3		98.4	63

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
1/30/2019			51.4
10/21/2019			31.2
9/24/2020			28.8
9/28/2020		15.1	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		18.5	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			28.8
4/14/2021			
4/15/2021	171		
9/9/2021			29.2
9/10/2021			
9/13/2021		15.2	
9/14/2021	162		

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<25								
1/30/2019		62.4							
10/21/2019		85.5		27	35.1				
10/22/2019	20.7								
10/24/2019			15.6						
11/22/2019						156			
12/18/2019							139		
12/19/2019								168	
2/17/2020									190
9/24/2020			17.9						
9/25/2020					39.8	79.8			
9/28/2020				26.5				110	
3/4/2021			14.8		39.1				
3/5/2021						128			
3/9/2021								127	
9/13/2021						80.5			
9/14/2021	22.7	60.9	17	33.4					
9/15/2021							110	129	178
9/16/2021					39.4				

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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	
2/17/2020	85.9
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	105
9/16/2021	



# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
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		

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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					
9/25/2020									
3/1/2021					15				
3/2/2021	28								9.8
3/3/2021		19.7	20.6	14		20.8	2.9	14.2	
3/8/2021									
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			



# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
9/25/2020			13.2
3/1/2021			
3/2/2021	8.6	8.4	
3/3/2021			
3/8/2021			12.9
9/9/2021			
9/10/2021		9	
9/13/2021	8.2		11.1

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
9/24/2020									
9/28/2020									
12/9/2020			7.7		12.5	29.1		12.8	
12/17/2020		10.3		8					
1/11/2021		9.8							
1/12/2021	20.6		7.5					15.7	
1/13/2021							3.1		
3/3/2021									
3/4/2021		10.4	7.9	7.8	13	29.4			
3/5/2021	9							39.2	
3/8/2021							3.9		
3/12/2021									
4/14/2021									7.9
4/15/2021									
9/9/2021									
9/10/2021		10.2					4.8		
9/13/2021	8.7			7	11.7				
9/14/2021			7.9			28.8		27.3	9

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
1/30/2019			7.1
10/21/2019			6.5
9/24/2020			5.7
9/28/2020		8.7	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		8.3	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			5.9
4/14/2021			
4/15/2021	6.2		
9/9/2021			5.8
9/10/2021			
9/13/2021		7.1	
9/14/2021	6.1		

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	7.9								
1/30/2019		9.3							
10/21/2019		9.9		14.3	3.4				
10/22/2019	18								
10/24/2019			3.3						
11/22/2019						9.1			
12/18/2019							9.4		
12/19/2019								10.4	
2/17/2020									20.9
9/24/2020			5.3						
9/25/2020					3	10			
9/28/2020				9.9				10.8	
3/4/2021			2.9		3.2				
3/5/2021						7.8			
3/9/2021								13.5	
9/13/2021						8.2			
9/14/2021	7.1	8.9	4.7	9.5					
9/15/2021							10.4	13.2	18.8
9/16/2021					2.6				

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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1/28/2019	
1/30/2019	
10/21/2019	
10/22/2019	
10/24/2019	
11/22/2019	
12/18/2019	
12/19/2019	
2/17/2020	96.8
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	29.9
9/16/2021	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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	<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 11/8/2021 1:03 PM View: AP 234  
 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 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.003 (J)	<0.005
9/10/2021			
9/13/2021	0.0027 (J)		



# Time Series

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
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 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			<0.005
9/22/2020		<0.005	
9/23/2020	0.00086 (J)		
9/24/2020			
9/25/2020			0.00094 (J)
3/1/2021			
3/2/2021	0.0015 (J)	0.00059 (J)	
3/3/2021			
3/8/2021			0.00057 (J)

# Time Series

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		<0.005	
9/13/2021	<0.005		<0.005

# Time Series

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.0011 (J)		<0.005	<0.005		<0.005	
12/17/2020		<0.005		<0.005					
1/11/2021		<0.005							
1/12/2021	<0.005		<0.005					<0.005	
1/13/2021							<0.005		
3/3/2021									
3/4/2021		<0.005	<0.005	<0.005	<0.005	<0.005			
3/5/2021	<0.005							<0.005	
3/8/2021							0.00061 (J)		
3/12/2021									
4/14/2021									<0.005
4/15/2021									
9/9/2021									
9/10/2021		<0.005					<0.005		
9/13/2021	0.0014 (J)			<0.005	<0.005				
9/14/2021			<0.005			<0.005		<0.005	<0.005

# Time Series

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
1/30/2019			<0.005
9/11/2019			<0.005
10/21/2019			0.00098 (J)
8/13/2020			<0.005
8/17/2020		0.0014 (J)	
9/24/2020			<0.005
9/28/2020		<0.005	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.00059 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/14/2021			
4/15/2021	<0.005		
9/9/2021			<0.005
9/10/2021			
9/13/2021		<0.005	
9/14/2021	<0.005		

# Time Series

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.005								
1/30/2019		<0.005							
9/11/2019	<0.005								
9/12/2019		<0.005							
9/18/2019			0.00068 (J)						
9/23/2019				0.0011 (J)					
10/21/2019		<0.005		<0.005	0.0017 (J)				
10/22/2019	0.00064 (J)								
10/24/2019			<0.005						
8/13/2020			0.0021 (J)						
8/14/2020					0.005 (J)				
8/17/2020				<0.005		0.0014 (J)			
8/19/2020								0.00057 (J)	
9/24/2020			0.0007 (J)						
9/25/2020					0.0051 (J)	0.00085 (J)			
9/28/2020				<0.005				0.00066 (J)	
3/4/2021			0.00098 (J)		0.0049 (J)				
3/5/2021						0.0017 (J)			
3/9/2021								<0.005	
9/13/2021						<0.005			
9/14/2021	<0.005	<0.005	<0.005	<0.005					
9/15/2021							<0.005	<0.005	<0.005
9/16/2021					0.003 (J)				



# Time Series

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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  
9/24/2020  
9/25/2020  
9/28/2020  
3/4/2021  
3/5/2021  
3/9/2021  
9/13/2021  
9/14/2021  
9/15/2021  
9/16/2021

<0.005

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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 11/8/2021 1:03 PM View: AP 234  
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 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.055	0.0048 (J)
9/10/2021			
9/13/2021	0.019		



# Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
3/3/2021		0.0087	0.0078	0.00039 (J)		0.0087	0.2	0.36	
3/8/2021									
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 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
7/23/2020			0.086
8/3/2020			0.087
8/11/2020		0.22	
8/12/2020	0.053		
8/13/2020			
8/14/2020			
8/17/2020			0.077
9/22/2020		0.16	
9/23/2020	0.04		
9/24/2020			
9/25/2020			0.034
3/1/2021			
3/2/2021	0.033	0.18	



# Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
3/3/2021			
3/8/2021			0.029
9/9/2021			
9/10/2021		0.21	
9/13/2021	0.028		0.035

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.17		0.0017 (J)	0.0048 (J)		0.00076 (J)	
12/17/2020		0.014		0.00087 (J)					
1/11/2021		0.015							
1/12/2021	0.0034 (J)		0.19					0.0007 (J)	
1/13/2021							<0.005		
3/3/2021									
3/4/2021		0.014	0.19	0.0007 (J)	0.0012 (J)	0.0017 (J)			
3/5/2021	0.0023 (J)							0.00052 (J)	
3/8/2021							<0.005		
3/12/2021									
4/14/2021									0.3
4/15/2021									
9/9/2021									
9/10/2021		0.013					<0.005		
9/13/2021	0.003 (J)			0.00056 (J)	0.00083 (J)				
9/14/2021			0.1			0.0017 (J)		<0.005	0.28

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
1/30/2019			<0.005
9/11/2019			0.0003 (J)
10/21/2019			0.00031 (J)
8/13/2020			<0.005
8/17/2020		0.042	
9/24/2020			<0.005
9/28/2020		0.042	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.05	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/14/2021			
4/15/2021	0.017		
9/9/2021			<0.005
9/10/2021			
9/13/2021		0.047	
9/14/2021	0.0055		

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	0.053								
1/30/2019		<0.005							
9/11/2019	0.043								
9/12/2019		0.006							
9/18/2019			0.0031 (J)						
9/23/2019				0.0038 (J)					
10/21/2019		0.0074		0.0089	0.018				
10/22/2019	0.046								
10/24/2019			0.0021 (J)						
11/22/2019						0.018 (J)			
12/19/2019								0.066	
2/17/2020									
8/13/2020			0.0011 (J)						
8/14/2020					0.021				
8/17/2020				0.0028 (J)		0.0031 (J)			
8/19/2020								0.068	
9/24/2020			0.0004 (J)						
9/25/2020					0.0073	0.0015 (J)			
9/28/2020				0.0053				0.064	
3/4/2021			0.0017 (J)		0.0099				
3/5/2021						0.022			
3/9/2021								0.061	
3/12/2021	0.046	0.01		0.0021 (J)					
3/15/2021									
9/13/2021						0.0018 (J)			
9/14/2021	0.037	0.012	<0.005	0.0015 (J)					
9/15/2021							0.063	0.062	0.003 (J)
9/16/2021					0.011				

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	
2/17/2020	<0.005
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
3/12/2021	
3/15/2021	<0.005
9/13/2021	
9/14/2021	
9/15/2021	0.0048 (J)
9/16/2021	

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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				1.08	1.09			0.997 (U)	
9/1/2016						1.11			
9/6/2016							1.32		0.731 (U)
9/7/2016									
12/6/2016				1.31	0.409 (U)			0.659 (U)	
12/7/2016						2.66	1.76		1.73
12/8/2016									
3/28/2017	6.36	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)
5/11/2017	3.45								
5/12/2017			0.165 (U)						
5/15/2017		0.288 (U)							
6/15/2017	4.58	1.01 (U)							
6/16/2017			0.732 (U)						
7/11/2017		0.254 (U)	0.461 (U)						
7/12/2017	4.37			0.831	0.85 (U)	0.538 (U)	1.36	1.03 (U)	0.584 (U)
8/8/2017		1.48							
10/24/2017	4.46	0.472 (U)	0.724 (U)	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		1.22	0.714 (U)	1.55	1.14	0.83		0.695 (U)	
2/28/2018							0.721 (U)		1.25
3/8/2018	2.14								
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
7/12/2018	4.65								
11/6/2018		0.859 (U)	0.455 (U)	1.46	1.41				
11/7/2018	3.05					0.414 (U)	1.22 (U)	0.593 (U)	0.786 (U)
8/27/2019		1.97	1.3 (U)	1.58	2.13	0.434 (U)		1.17 (U)	
8/28/2019	2.68						1.43		1.01 (U)
10/15/2019		0.319 (U)	1.21 (U)	0.831 (U)	0.622 (U)	0.359 (U)			
10/16/2019	1.89						1.73	1.04 (U)	
10/17/2019									1.03 (U)
10/18/2019									
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									
3/9/2020	3.51								
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	1.04								3.58
8/14/2020									
9/22/2020	2.27	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					
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			
3/4/2021				1.48					
3/12/2021	1.63								
9/8/2021			0.051 (U)						



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		1.07 (U)	
9/6/2016			
9/7/2016	1.17		
12/6/2016			
12/7/2016		0.903 (U)	
12/8/2016	1.65		
3/28/2017			
3/29/2017		0.302 (U)	
3/30/2017	0.865 (U)		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	0.362 (U)	0.283 (U)	
8/8/2017			
10/24/2017			1.19
10/25/2017	0.401 (U)	0.927 (U)	
11/15/2017			
2/27/2018			0.863 (U)
2/28/2018	1.1 (U)	0.813 (U)	
3/8/2018			
7/10/2018			
7/11/2018	0.64 (U)	0.751 (U)	0.663 (U)
7/12/2018			
11/6/2018			0.664
11/7/2018	0.795 (U)	1.02	
8/27/2019	1.12		1.6
8/28/2019		0.661 (U)	
10/15/2019			
10/16/2019		1.79	
10/17/2019			1.74
10/18/2019	0.89 (U)		
3/2/2020			
3/3/2020		0.383 (U)	1.23
3/4/2020	0.493 (U)		
3/9/2020			
8/11/2020		0.723 (U)	1.37
8/12/2020			
8/13/2020			
8/14/2020	0.804 (U)		
9/22/2020		0.96 (U)	
9/23/2020			1.96 (U)
9/24/2020	0.369 (U)		
3/1/2021			
3/2/2021		0.775 (U)	1.54 (U)
3/3/2021	0.66 (U)		
3/4/2021			
3/12/2021			
9/8/2021			



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.239 (U)	1.22 (U)
9/10/2021			
9/13/2021	0.85 (U)		

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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									2.49
9/1/2016							4.47	2.37	
9/2/2016	1.48	0.908 (U)	1.54						
9/7/2016						0.876 (U)			
12/6/2016									0.348 (U)
12/7/2016	1.26 (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	0.373 (U)		0.715 (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
7/12/2017	0.91 (U)	1.22		0.703 (U)					
7/13/2017			1.14			1.08 (U)	2.37	1.78	
10/24/2017					1.24				
10/25/2017	0.853 (U)	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
2/28/2018	0.727 (U)	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)
7/11/2018	1.3	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
11/7/2018	0.746 (U)	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)			
8/29/2019	0.996 (U)	0.582 (U)	1.87	2.21			3.05	2.37	
10/15/2019					2.11 (U)				
10/16/2019									1.63
10/17/2019	2	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)						
3/4/2020	1.67			1.39		0.722 (U)	1.68	1.31	
8/11/2020									
8/12/2020					1.95		2.56		1.13
8/13/2020	1.77			1.48 (U)		1.23 (U)		1.74	
8/14/2020		0.602 (U)	1.83						
8/17/2020									
9/22/2020	1.61 (U)				1.43 (U)	1.03 (U)			1.4 (U)
9/23/2020							2.3 (U)	1.51 (U)	
9/24/2020		0.396 (U)	1.02 (U)	1.49					
9/25/2020									
3/1/2021					1.05 (U)				
3/2/2021	1.76								0.971 (U)
3/3/2021		0.248 (U)	0.547 (U)	1.05 (U)		0.92 (U)	1.27 (U)	1.41	

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
3/8/2021									
9/9/2021		0.702 (U)		1.81					
9/10/2021	0.689 (U)		0.616 (U)		1.46		2.32	2.21	1.15
9/13/2021						1.15 (U)			

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	0.919 (U)	1.33	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	0.407 (U)	0.828 (U)	
12/7/2016			
12/8/2016			
3/28/2017		1.06	
3/29/2017	0.28 (U)		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	0.209 (U)	0.62 (U)	
7/12/2017			
7/13/2017			
10/24/2017	0.615 (U)	1.21	
10/25/2017			
10/26/2017			
2/27/2018	1.05 (U)	1.79	
2/28/2018			
3/1/2018			
3/2/2018			
7/10/2018	0.363 (U)		
7/11/2018		1.81	
7/12/2018			
11/6/2018	0.577 (U)	1.13	
11/7/2018			
11/8/2018			
8/27/2019		1.55	
8/28/2019	0.815 (U)		
8/29/2019			
10/15/2019			
10/16/2019	0.999 (U)		
10/17/2019		0.702 (U)	
10/18/2019			
3/2/2020			
3/3/2020	0.481 (U)	1.37	
3/4/2020			
8/11/2020		0.819 (U)	
8/12/2020	0.721 (U)		
8/13/2020			
8/14/2020			
8/17/2020			1.4 (U)
9/22/2020		1.15 (U)	
9/23/2020	0.8 (U)		
9/24/2020			
9/25/2020			0.799 (U)
3/1/2021			
3/2/2021	0.751 (U)	1.29 (U)	
3/3/2021			

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
3/8/2021			0.168 (U)
9/9/2021			
9/10/2021		1.28	
9/13/2021	0.916 (U)		0.774 (U)

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
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							12.1		
3/12/2021									
4/14/2021									14.7
4/15/2021									
9/9/2021									
9/10/2021		1.74					9.45		
9/13/2021	1.8			0.625 (U)	0.813 (U)				
9/14/2021			9.6			0.917 (U)		4.39	11.9

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
1/30/2019			1.97 (U)
10/21/2019			1.82
8/13/2020			1.63
8/17/2020		1.15 (U)	
9/24/2020			1.28 (U)
9/28/2020		1.39	
12/9/2020			
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			
3/12/2021			1.18 (U)
4/14/2021			
4/15/2021	2.31		
9/9/2021			1.7
9/10/2021			
9/13/2021		0.854 (U)	
9/14/2021	3.68		

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	2.14 (U)								
1/30/2019		0.975 (U)							
10/21/2019		1.07 (U)		0.63 (U)	0.792 (U)				
10/22/2019	1.28 (U)								
10/24/2019			1.87						
8/13/2020			2.17						
8/14/2020					0.95 (U)				
8/17/2020				0.662 (U)		2.47			
8/19/2020								1.19 (U)	
9/24/2020			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)	
9/13/2021						0.771 (U)			
9/14/2021	1.68	0.421 (U)	0.617 (U)	1.03 (U)					
9/15/2021							1.39	1.84	2.11
9/16/2021					0.442 (U)				



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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  
9/24/2020  
9/25/2020  
9/28/2020  
3/4/2021  
3/5/2021  
3/9/2021  
9/13/2021  
9/14/2021  
9/15/2021  
9/16/2021

2.2

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
 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, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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)		



# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
3/1/2021					<0.1				
3/2/2021	1.4								0.15
3/3/2021		<0.1	<0.1	0.063 (J)		<0.1	0.71	0.67	
3/8/2021									
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			

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			<0.1
9/22/2020		0.99	
9/23/2020	<0.1		
9/24/2020			
9/25/2020			<0.1



# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
3/1/2021			
3/2/2021	0.059 (J)	0.93	
3/3/2021			
3/8/2021			<0.1
9/9/2021			
9/10/2021		2	
9/13/2021	0.069 (J)		<0.1

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.33		<0.1	<0.1		0.33	
12/17/2020		0.079 (J)		0.052 (J)					
1/11/2021		0.077 (J)							
1/12/2021	0.052 (J)		0.36					0.32	
1/13/2021							0.17		
3/3/2021									
3/4/2021		0.11	0.43	0.055 (J)	<0.1	<0.1			
3/5/2021	0.053 (J)							0.51	
3/8/2021							0.14		
3/12/2021									
4/14/2021									0.99
4/15/2021									
9/9/2021									
9/10/2021		0.083 (J)					0.15		
9/13/2021	0.051 (J)			0.052 (J)	<0.1				
9/14/2021			0.5			<0.1		0.57	1

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
1/30/2019			0.43
10/21/2019			0.23 (J)
8/13/2020			0.11
8/17/2020		0.19	
9/24/2020			0.093 (J)
9/28/2020		0.098 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.34	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.11
4/14/2021			
4/15/2021	<0.1		
9/9/2021			0.14
9/10/2021			
9/13/2021		0.2	
9/14/2021	<0.1		

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	0.45								
1/30/2019		0.51							
10/21/2019		0.3 (J)		0.2 (J)	0.13 (J)				
10/22/2019	0.2 (J)								
10/24/2019			0.096 (J)						
8/13/2020			<0.1						
8/14/2020					0.05 (J)				
8/17/2020				<0.1		<0.1			
8/19/2020								0.32	
9/24/2020			<0.1						
9/25/2020					<0.1	<0.1			
9/28/2020				<0.1				0.3	
3/4/2021			<0.1		0.071 (J)				
3/5/2021						<0.1			
3/9/2021								0.34	
9/13/2021						<0.1			
9/14/2021	0.16	0.22	0.078 (J)	0.052 (J)					
9/15/2021							0.18	0.34	0.085 (J)
9/16/2021					0.066 (J)				

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	0.098 (J)
9/16/2021	

# Time Series

Constituent: Lead (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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 11/8/2021 1:03 PM View: AP 234  
 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 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2
9/9/2021		<0.001	<0.001
9/10/2021			
9/13/2021	<0.001		



# Time Series

Constituent: Lead (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
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 11/8/2021 1:03 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			8.8E-05 (J)
9/22/2020		0.00015 (J)	
9/23/2020	0.00011 (J)		
9/24/2020			
9/25/2020			0.00021 (J)
3/1/2021			
3/2/2021	0.00027 (J)	0.00028 (J)	
3/3/2021			
3/8/2021			0.00018 (J)

# Time Series

Constituent: Lead (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		<0.001	
9/13/2021	<0.001		<0.001

# Time Series

Constituent: Lead (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			5.1E-05 (J)		4.4E-05 (J)	<0.001		5.8E-05 (J)	
12/17/2020		3.7E-05 (J)		<0.001					
1/11/2021		5E-05 (J)							
1/12/2021	<0.001		<0.001					5.1E-05 (J)	
1/13/2021							<0.001		
3/3/2021									
3/4/2021		5.9E-05 (J)	<0.001	<0.001	<0.001	<0.001			
3/5/2021	6.5E-05 (J)							<0.001	
3/8/2021							<0.001		
3/12/2021									
4/14/2021									0.00032 (J)
4/15/2021									
9/9/2021									
9/10/2021		<0.001					<0.001		
9/13/2021	<0.001			<0.001	<0.001				
9/14/2021			<0.001			<0.001		<0.001	<0.001

# Time Series

Constituent: Lead (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
1/30/2019			<0.001
9/11/2019			<0.001
10/21/2019			<0.001
8/13/2020			<0.001
8/17/2020		0.00022 (J)	
9/24/2020			<0.001
9/28/2020		9.1E-05 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.0001 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.001
4/14/2021			
4/15/2021	0.00019 (J)		
9/9/2021			<0.001
9/10/2021			
9/13/2021		<0.001	
9/14/2021	<0.001		

# Time Series

Constituent: Lead (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.001								
1/30/2019		<0.001							
9/11/2019	4.7E-05 (J)								
9/12/2019		<0.001							
9/18/2019			0.00032 (J)						
9/23/2019				0.00016 (J)					
10/21/2019		<0.001		<0.001	0.00012 (J)				
10/22/2019	7.3E-05 (J)								
10/24/2019			<0.001						
8/13/2020			0.0016 (J)						
8/14/2020					0.00092 (J)				
8/17/2020				5.9E-05 (J)		0.00081 (J)			
8/19/2020								0.00012 (J)	
9/24/2020			0.00021 (J)						
9/25/2020					6.5E-05 (J)	0.00035 (J)			
9/28/2020				0.00011 (J)				0.00012 (J)	
3/4/2021			0.00029 (J)		0.00017 (J)				
3/5/2021						0.012			
3/9/2021								<0.001	
9/13/2021						<0.001			
9/14/2021	<0.001	<0.001	<0.001	<0.001					
9/15/2021							<0.001	<0.001	<0.001
9/16/2021					<0.001				



# Time Series

Constituent: Lead (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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  
9/24/2020  
9/25/2020  
9/28/2020  
3/4/2021  
3/5/2021  
3/9/2021  
9/13/2021  
9/14/2021  
9/15/2021  
9/16/2021

<0.001

# Time Series

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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 11/8/2021 1:03 PM View: AP 234  
 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 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.0035 (J)	0.024 (J)
9/10/2021			
9/13/2021	<0.03		



# Time Series

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
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 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			0.0013 (J)
9/22/2020		0.025 (J)	
9/23/2020	0.0045 (J)		
9/24/2020			
9/25/2020			0.0027 (J)
3/1/2021			
3/2/2021	0.0046 (J)	0.028 (J)	
3/3/2021			
3/8/2021			0.0024 (J)



# Time Series

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.027 (J)	
9/13/2021	0.0034 (J)		0.0022 (J)

# Time Series

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.039 (J)		0.017 (J)	0.016 (J)		0.021 (J)	
12/17/2020		0.012 (J)		0.0048 (J)					
1/11/2021		0.015 (J)							
1/12/2021	0.012 (J)		0.039					0.021 (J)	
1/13/2021							0.016 (J)		
3/3/2021									
3/4/2021		0.014 (J)	0.038	0.0054 (J)	0.015 (J)	0.014 (J)			
3/5/2021	0.015 (J)							0.028 (J)	
3/8/2021							0.014 (J)		
3/12/2021									
4/14/2021									0.089
4/15/2021									
9/9/2021									
9/10/2021		0.012 (J)					0.013 (J)		
9/13/2021	0.011 (J)			0.0056 (J)	0.014 (J)				
9/14/2021			0.036			0.015 (J)		0.029 (J)	0.085

# Time Series

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
1/30/2019			<0.03
9/11/2019			0.0078 (J)
10/21/2019			0.0078 (J)
8/13/2020			0.0087 (J)
8/17/2020		0.0056 (J)	
9/24/2020			0.0084 (J)
9/28/2020		0.005 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.0051 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.0087 (J)
4/14/2021			
4/15/2021	0.088		
9/9/2021			0.0094 (J)
9/10/2021			
9/13/2021		0.0055 (J)	
9/14/2021	0.077		

# Time Series

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.03								
1/30/2019		<0.03							
9/11/2019	0.0064 (J)								
9/12/2019		<0.03							
9/18/2019			0.0047 (J)						
9/23/2019				0.0039 (J)					
10/21/2019		<0.03		0.0036 (J)	0.003 (J)				
10/22/2019	0.0062 (J)								
10/24/2019			0.0036 (J)						
8/13/2020			0.0018 (J)						
8/14/2020					0.0045 (J)				
8/17/2020				0.0016 (J)		0.006 (J)			
8/19/2020								0.011 (J)	
9/24/2020			0.00095 (J)						
9/25/2020					0.0018 (J)	0.0016 (J)			
9/28/2020				0.001 (J)				0.011 (J)	
3/4/2021			0.0011 (J)		0.0024 (J)				
3/5/2021						0.029 (J)			
3/9/2021								0.012 (J)	
3/12/2021	0.0066 (J)								
9/13/2021						0.0017 (J)			
9/14/2021	0.0064 (J)	<0.03	<0.03	0.001 (J)					
9/15/2021							0.012 (J)	0.011 (J)	0.0042 (J)
9/16/2021					0.0021 (J)				

# Time Series

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
3/12/2021	
9/13/2021	
9/14/2021	
9/15/2021	0.0012 (J)
9/16/2021	

# Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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	<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 11/8/2021 1:03 PM View: AP 234  
 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			



# Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2
9/9/2021		<0.0002	<0.0002
9/10/2021			
9/13/2021	8.6E-05 (J)		

# Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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						
8/17/2020									
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)					
9/25/2020									
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)					

# Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
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 11/8/2021 1:03 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			0.00011 (J)
9/22/2020		0.00013 (J)	
9/23/2020	<0.0002		
9/24/2020			
9/25/2020			<0.0002
3/1/2021			
3/2/2021	<0.0002	0.00017 (J)	
3/3/2021			
9/9/2021			

# Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/10/2021		0.00014 (J)	
9/13/2021	<0.0002		<0.0002

# Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			7.9E-05 (J)		0.00016 (J)	0.00014 (J)		9.4E-05 (J)	
12/17/2020		<0.0002		<0.0002					
1/11/2021		<0.0002							
1/12/2021	<0.0002		<0.0002					<0.0002	
1/13/2021							<0.0002		
3/3/2021									
3/4/2021		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
3/5/2021	0.00014 (J)							<0.0002	
3/8/2021							<0.0002		
3/12/2021									
4/14/2021									<0.0002
4/15/2021									
9/9/2021									
9/10/2021		<0.0002					<0.0002		
9/13/2021	<0.0002			<0.0002	<0.0002				
9/14/2021			<0.0002			<0.0002		<0.0002	<0.0002

# Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
1/30/2019			<0.0002
9/11/2019			<0.0002
10/21/2019			<0.0002
8/13/2020			<0.0002
8/17/2020		0.00016 (J)	
9/24/2020			<0.0002
9/28/2020		<0.0002	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		<0.0002	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.0002
4/14/2021			
4/15/2021	<0.0002		
9/9/2021			<0.0002
9/10/2021			
9/13/2021		<0.0002	
9/14/2021	<0.0002		

# Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.0002								
1/30/2019		<0.0002							
9/11/2019	<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				
10/22/2019	<0.0002								
10/24/2019			<0.0002						
8/13/2020			<0.0002						
8/14/2020					<0.0002				
8/17/2020				0.00011 (J)		0.00011 (J)			
8/19/2020								0.00026	
9/24/2020			<0.0002						
9/25/2020					<0.0002	<0.0002			
9/28/2020				<0.0002				0.00024 (J)	
3/4/2021			<0.0002		<0.0002				
3/5/2021						0.0001 (J)			
3/9/2021								0.00015 (J)	
9/13/2021						<0.0002			
9/14/2021	<0.0002	<0.0002	<0.0002	<0.0002					
9/15/2021							0.00017 (J)	9.8E-05 (J)	<0.0002
9/16/2021					<0.0002				



# Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	<0.0002
9/16/2021	

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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 11/8/2021 1:03 PM View: AP 234  
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 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2
9/9/2021		<0.01	0.0023 (J)
9/10/2021			
9/13/2021	<0.01		



# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
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 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			<0.01
9/22/2020		<0.01	
9/23/2020	<0.01		
9/24/2020			
9/25/2020			<0.01
3/1/2021			
3/2/2021	<0.01	<0.01	
3/3/2021			
3/8/2021			<0.01



# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		<0.01	
9/13/2021	<0.01		<0.01

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.0012 (J)		<0.01	<0.01		0.0055 (J)	
12/17/2020		<0.01		<0.01					
1/11/2021		<0.01							
1/12/2021	0.0022 (J)		<0.01					0.0054 (J)	
1/13/2021							0.0022 (J)		
3/3/2021									
3/4/2021		<0.01	<0.01	<0.01	<0.01	<0.01			
3/5/2021	<0.01							0.0067 (J)	
3/8/2021							0.0014 (J)		
3/12/2021									
4/14/2021									<0.01
4/15/2021									
9/9/2021									
9/10/2021		<0.01					0.0011 (J)		
9/13/2021	<0.01			<0.01	<0.01				
9/14/2021			<0.01			<0.01		0.013	<0.01

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
1/30/2019			<0.01
9/11/2019			<0.01
10/21/2019			<0.01
8/13/2020			<0.01
8/17/2020		<0.01	
9/24/2020			<0.01
9/28/2020		<0.01	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		<0.01	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.01
4/14/2021			
4/15/2021	0.00089 (J)		
9/9/2021			<0.01
9/10/2021			
9/13/2021		<0.01	
9/14/2021	<0.01		

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.01								
1/30/2019		<0.01							
9/11/2019	<0.01								
9/12/2019		0.0018 (J)							
9/18/2019			<0.01						
9/23/2019				<0.01					
10/21/2019		0.0015 (J)		<0.01	<0.01				
10/22/2019	<0.01								
10/24/2019			<0.01						
8/13/2020			<0.01						
8/14/2020					<0.01				
8/17/2020				<0.01		0.0012 (J)			
8/19/2020								<0.01	
9/24/2020			<0.01						
9/25/2020					<0.01	0.0012 (J)			
9/28/2020				<0.01				<0.01	
3/4/2021			<0.01		<0.01				
3/5/2021						<0.01			
3/9/2021								<0.01	
9/13/2021						<0.01			
9/14/2021	<0.01	<0.01	<0.01	<0.01					
9/15/2021							<0.01	<0.01	<0.01
9/16/2021					<0.01				

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	<0.01
9/16/2021	

# Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:03 PM View: AP 234

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 11/8/2021 1:03 PM View: AP 234  
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 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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		

# Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:03 PM View: AP 234

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	
8/3/2020									
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						
8/17/2020									
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					

# Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
9/25/2020									
3/1/2021					5.82				
3/2/2021	4.45								5
3/3/2021		5.63	5.71	5.85		5.3	3.98	4.14	
3/8/2021									
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			

# Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/3/2020			4.93
8/11/2020		4	
8/12/2020	5.36		
8/13/2020			
8/14/2020			
8/17/2020			5.02
9/22/2020		4	
9/23/2020	5.21		
9/24/2020			

# Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/25/2020			5.53
3/1/2021			
3/2/2021	6.6	3.99	
3/3/2021			
3/8/2021			5.32
9/9/2021			
9/10/2021		3.98	
9/13/2021	5.05		5.27

# Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			6.44		5.91	5.94		6.64	
12/17/2020		5.39		5.82					
1/11/2021		5.55							
1/12/2021	5.26		6.24					6.71	
1/13/2021							6.42		
3/3/2021									
3/4/2021		5.43	6.27	5.85	5.97	5.88			
3/5/2021	6.52							6.69	
3/8/2021							6.42		
3/12/2021									
4/14/2021									4.8
4/15/2021									
9/9/2021									
9/10/2021		5.36					6.86		
9/13/2021	6.07			5.91	5.88				
9/14/2021			8.58			5.81		7.29	5.38

# Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
9/11/2019			6.27
10/21/2019			6.24
8/13/2020			6.4
8/17/2020		4.82	
9/24/2020			6.55
9/28/2020		4.9	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		4.71	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			6.34
4/14/2021			
4/15/2021	5.46		
9/9/2021			6.31
9/10/2021			
9/13/2021		4.69	
9/14/2021	5.3		

# Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	5.39								
1/30/2019		6.83							
9/11/2019	5.48								
9/12/2019		6.87							
9/18/2019			6.14						
9/23/2019				5.21					
10/21/2019		6.74		5.34	5.54				
10/22/2019	5.55								
10/24/2019			6.26						
8/13/2020			6.14						
8/14/2020					5.59				
8/17/2020				5.48		5.76			
8/19/2020								4.78	
9/24/2020			6.46						
9/25/2020					5.97	5.75			
9/28/2020				5.84				4.67	
3/4/2021			6.33		5.6				
3/5/2021						5.21			
3/9/2021							4.62	4.73	5.55
3/12/2021	5.51	6.53		5.29					
3/15/2021									
9/13/2021						5.68			
9/14/2021	5.46	5.54	6.42	5.15					
9/15/2021							4.55	4.6	5.49
9/16/2021					5.58				



# Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
3/12/2021	
3/15/2021	6.3
9/13/2021	
9/14/2021	
9/15/2021	5.4
9/16/2021	

# Time Series

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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 11/8/2021 1:03 PM View: AP 234  
 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 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.0083	0.0031 (J)
9/10/2021			
9/13/2021	0.0071		



# Time Series

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
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 11/8/2021 1:03 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			<0.005
9/22/2020		0.23	
9/23/2020	0.0028 (J)		
9/24/2020			
9/25/2020			<0.005
3/1/2021			
3/2/2021	<0.005	0.07	
3/3/2021			
3/8/2021			0.0019 (J)



# Time Series

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.057	
9/13/2021	<0.005		<0.005

# Time Series

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			<0.005		<0.005	<0.005		<0.005	
12/17/2020		<0.005		<0.005					
1/11/2021		<0.005							
1/12/2021	<0.005		0.0016 (J)					<0.005	
1/13/2021							<0.005		
3/3/2021									
3/4/2021		<0.005	0.0031 (J)	<0.005	<0.005	0.0016 (J)			
3/5/2021	0.0031 (J)							0.0022 (J)	
3/8/2021							<0.005		
3/12/2021									
4/14/2021									0.006
4/15/2021									
9/9/2021									
9/10/2021		<0.005					<0.005		
9/13/2021	<0.005			<0.005	<0.005				
9/14/2021			<0.005			<0.005		<0.005	0.0041 (J)

# Time Series

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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		0.011	
9/24/2020			<0.005
9/28/2020		0.029	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.013	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/14/2021			
4/15/2021	0.0016 (J)		
9/9/2021			<0.005
9/10/2021			
9/13/2021		0.011	
9/14/2021	0.0022 (J)		

# Time Series

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
2/19/2018		<0.005							
1/28/2019	<0.005								
1/30/2019		<0.005							
9/11/2019	<0.005								
9/12/2019		<0.005							
9/18/2019			<0.005						
9/23/2019				<0.005					
10/21/2019		<0.005		0.0016 (J)	0.0082 (J)				
10/22/2019	<0.005								
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	<0.005	<0.005					
9/15/2021							0.0067	0.0076	0.0024 (J)
9/16/2021					0.025				

# Time Series

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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  
9/24/2020  
9/25/2020  
9/28/2020  
3/4/2021  
3/5/2021  
3/9/2021  
9/13/2021  
9/14/2021  
9/15/2021  
9/16/2021

0.0033 (J)



# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
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		

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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					
9/25/2020									
3/1/2021					840				
3/2/2021	458								412
3/3/2021		264	252	221		329	143	312	
3/8/2021									
9/9/2021		238		217					
9/10/2021	399		234		823		123	272	449
9/13/2021						285			



# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
9/25/2020			385
3/1/2021			
3/2/2021	152	266	
3/3/2021			
3/8/2021			388
9/9/2021			
9/10/2021		264	
9/13/2021	145		351

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
9/24/2020									
9/28/2020									
12/9/2020			415		273	277		197	
12/17/2020		249		179					
1/11/2021		249							
1/12/2021	207		471					222	
1/13/2021							99.8		
3/3/2021									
3/4/2021		256	474	170	309	309			
3/5/2021	236							270	
3/8/2021							102		
3/12/2021									
4/14/2021									256
4/15/2021									
9/9/2021									
9/10/2021		271					93.2		
9/13/2021	174			147	275				
9/14/2021			456			299		243	278

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
1/30/2019			74.7
10/21/2019			55.3
9/24/2020			50.6
9/28/2020		211	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		225	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			46.5
4/14/2021			
4/15/2021	556		
9/9/2021			49.2
9/10/2021			
9/13/2021		189	
9/14/2021	552		

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	87.9								
1/30/2019		292							
10/21/2019		302		334	103				
10/22/2019	56.5								
10/24/2019			8.6						
11/22/2019						619			
12/18/2019							481		
12/19/2019								533	
2/17/2020									242
9/24/2020			2.9						
9/25/2020					107	344			
9/28/2020				287				419	
3/4/2021			4.9		113				
3/5/2021						497			
3/9/2021								488	
9/13/2021						321			
9/14/2021	73.2	268	2.5	326					
9/15/2021							384	478	551
9/16/2021					106				

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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	
2/17/2020	150
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	325
9/16/2021	

# Time Series

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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 11/8/2021 1:03 PM View: AP 234  
 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 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.00056 (J)	<0.001
9/10/2021			
9/13/2021	<0.001		



# Time Series

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
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 11/8/2021 1:03 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			<0.001
9/22/2020		0.00043 (J)	
9/23/2020	0.0002 (J)		
9/24/2020			
9/25/2020			<0.001
3/1/2021			
3/2/2021	0.00019 (J)	<0.001	
3/3/2021			
3/8/2021			<0.001

# Time Series

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.0004 (J)	
9/13/2021	0.00019 (J)		<0.001

# Time Series

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			<0.001		<0.001	<0.001		<0.001	
12/17/2020		<0.001		<0.001					
1/11/2021		<0.001							
1/12/2021	<0.001		<0.001					<0.001	
1/13/2021							<0.001		
3/3/2021									
3/4/2021		<0.001	<0.001	<0.001	<0.001	<0.001			
3/5/2021	<0.001							<0.001	
3/8/2021							<0.001		
3/12/2021									
4/14/2021									<0.001
4/15/2021									
9/9/2021									
9/10/2021		<0.001					<0.001		
9/13/2021	<0.001			<0.001	<0.001				
9/14/2021			<0.001			<0.001		<0.001	<0.001

# Time Series

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
1/30/2019			<0.001
9/11/2019			<0.001
10/21/2019			<0.001
8/13/2020			<0.001
8/17/2020		0.00016 (J)	
9/24/2020			<0.001
9/28/2020		0.00023 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.00026 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.001
4/14/2021			
4/15/2021	<0.001		
9/9/2021			<0.001
9/10/2021			
9/13/2021		0.00024 (J)	
9/14/2021	<0.001		

# Time Series

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.001								
1/30/2019		<0.001							
9/11/2019	<0.001								
9/12/2019		<0.001							
9/18/2019			<0.001						
9/23/2019				9.9E-05 (J)					
10/21/2019		<0.001		0.00011 (J)	7.2E-05 (J)				
10/22/2019	<0.001								
10/24/2019			<0.001						
8/13/2020			<0.001						
8/14/2020					<0.001				
8/17/2020				<0.001		<0.001			
8/19/2020								<0.001	
9/24/2020			<0.001						
9/25/2020					<0.001	<0.001			
9/28/2020				<0.001				<0.001	
3/4/2021			<0.001		<0.001				
3/5/2021						0.0002 (J)			
3/9/2021								<0.001	
9/13/2021						<0.001			
9/14/2021	<0.001	<0.001	<0.001	<0.001					
9/15/2021							<0.001	<0.001	<0.001
9/16/2021					<0.001				



# Time Series

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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  
9/24/2020  
9/25/2020  
9/28/2020  
3/4/2021  
3/5/2021  
3/9/2021  
9/13/2021  
9/14/2021  
9/15/2021  
9/16/2021

<0.001



# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
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		

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234

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					
9/25/2020									
3/1/2021					1140				
3/2/2021	742								730
3/3/2021		459	442	425		531	228	521	
3/8/2021									
9/9/2021		396		455					
9/10/2021	678		468		1520		274	532	792
9/13/2021						508			

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
9/25/2020			724
3/1/2021			
3/2/2021	291	449	
3/3/2021			
3/8/2021			660
9/9/2021			
9/10/2021		466	
9/13/2021	306		636

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
9/24/2020									
9/28/2020									
12/9/2020			862		564	573		490	
12/17/2020		449		340					
1/11/2021		442							
1/12/2021	405		836					500	
1/13/2021							303		
3/3/2021									
3/4/2021		459	818	321	525	569			
3/5/2021	462							634	
3/8/2021							305		
3/12/2021									
4/14/2021									480
4/15/2021									
9/9/2021									
9/10/2021		474					284		
9/13/2021	343			296	567				
9/14/2021			776			576		586	499

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
1/30/2019			287
10/21/2019			180
9/24/2020			170
9/28/2020		320	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		303	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			172
4/14/2021			
4/15/2021	982		
9/9/2021			174
9/10/2021			
9/13/2021		321	
9/14/2021	882		

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	204								
1/30/2019		601							
10/21/2019		617		458	214				
10/22/2019	178								
10/24/2019			106						
9/24/2020			124						
9/25/2020					244	624			
9/28/2020				454				686	
3/4/2021			128		234				
3/5/2021						798			
3/9/2021								790	
9/13/2021						572			
9/14/2021	170	490	94	536					
9/15/2021							612	812	892
9/16/2021					223				



# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/8/2021 1:03 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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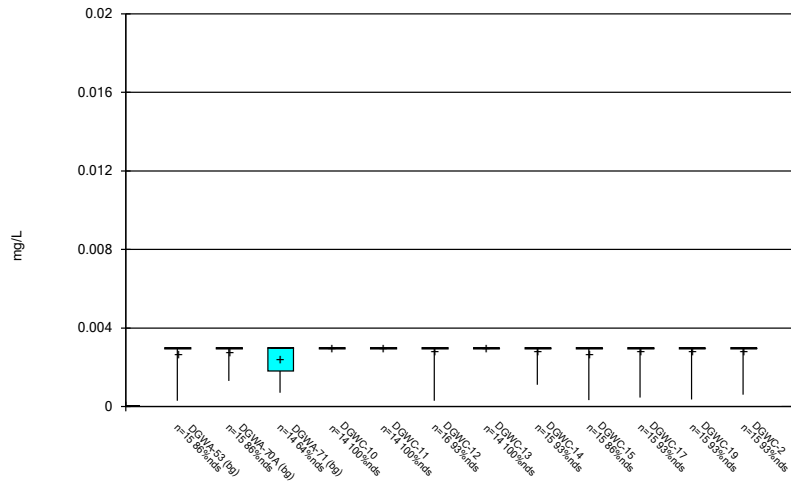
B-98

1/28/2019  
1/30/2019  
10/21/2019  
10/22/2019  
10/24/2019  
9/24/2020  
9/25/2020  
9/28/2020  
3/4/2021  
3/5/2021  
3/9/2021  
9/13/2021  
9/14/2021  
9/15/2021  
9/16/2021

524

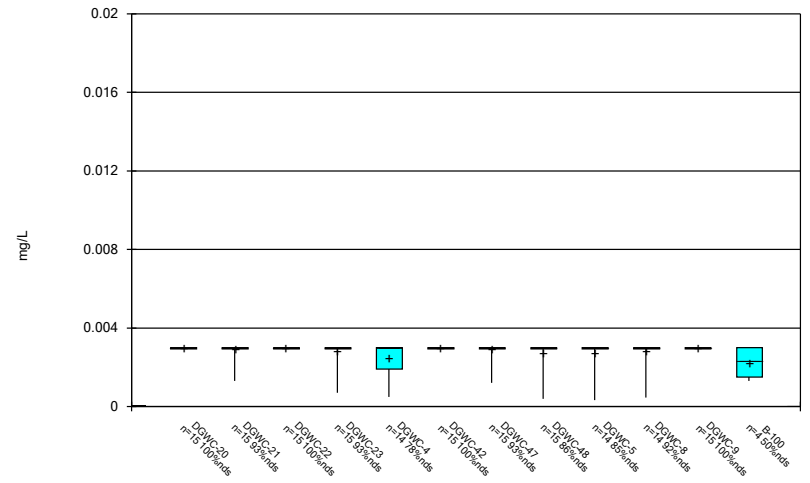
FIGURE B.

Box & Whiskers Plot



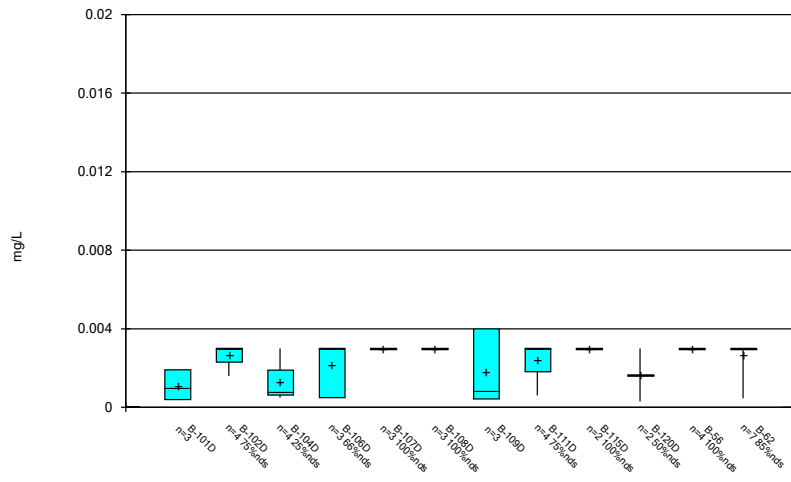
Constituent: Antimony Analysis Run 11/8/2021 1:08 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



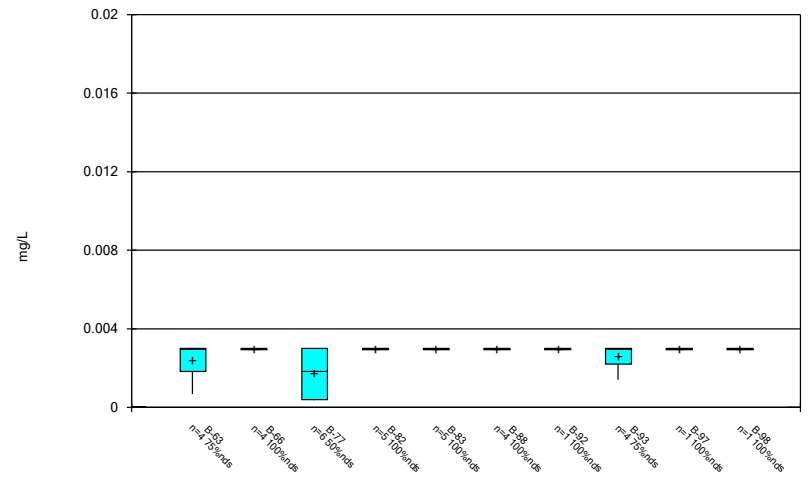
Constituent: Antimony Analysis Run 11/8/2021 1:08 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



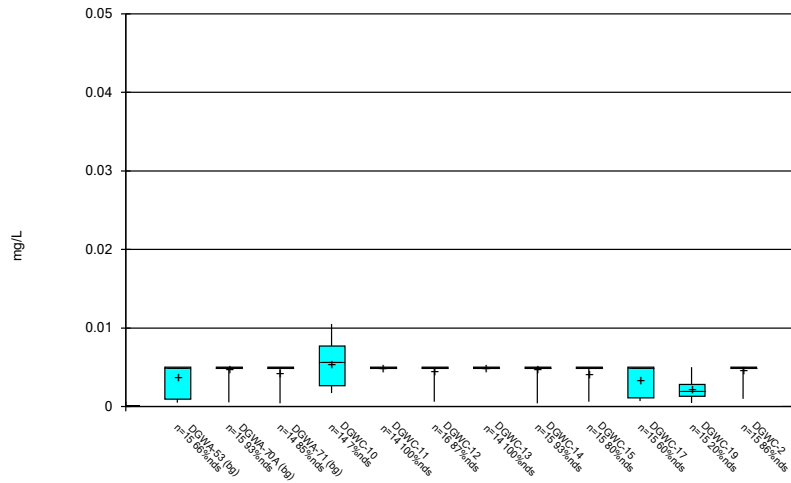
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



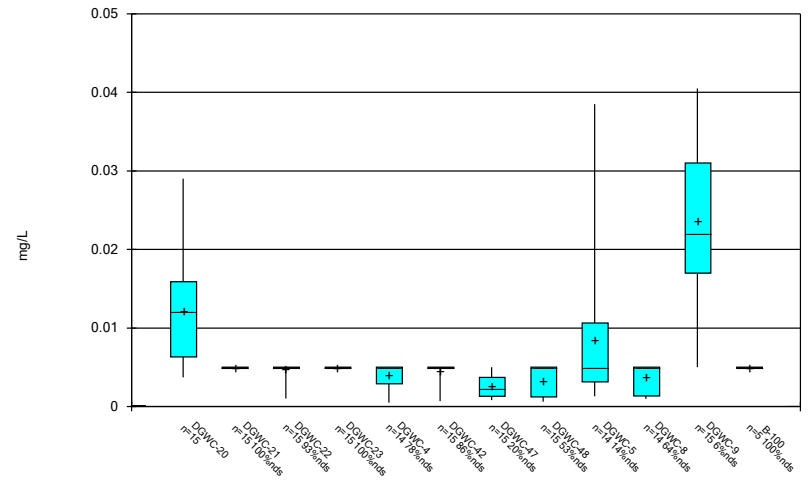
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### Box & Whiskers Plot



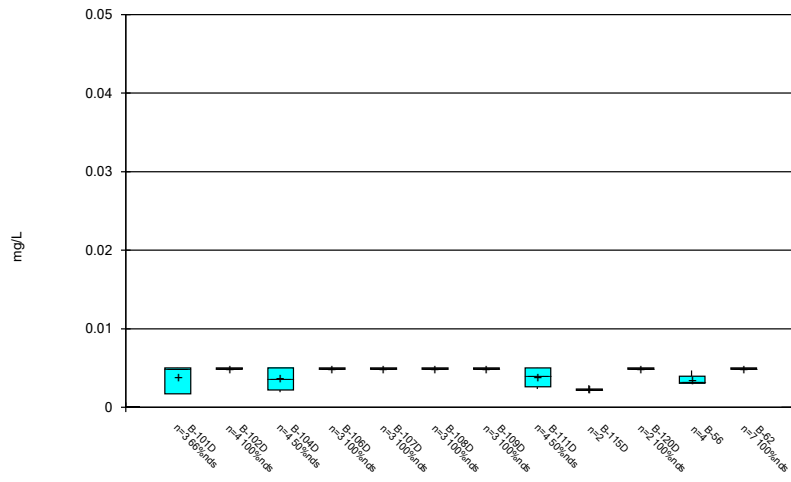
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



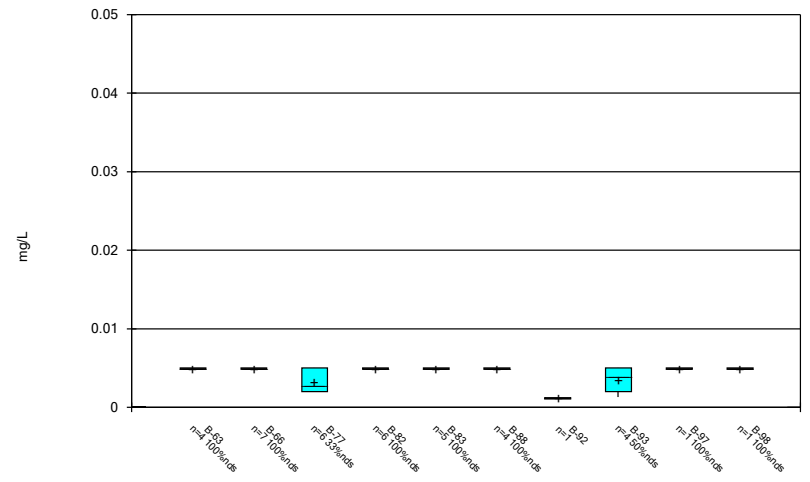
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### Box & Whiskers Plot



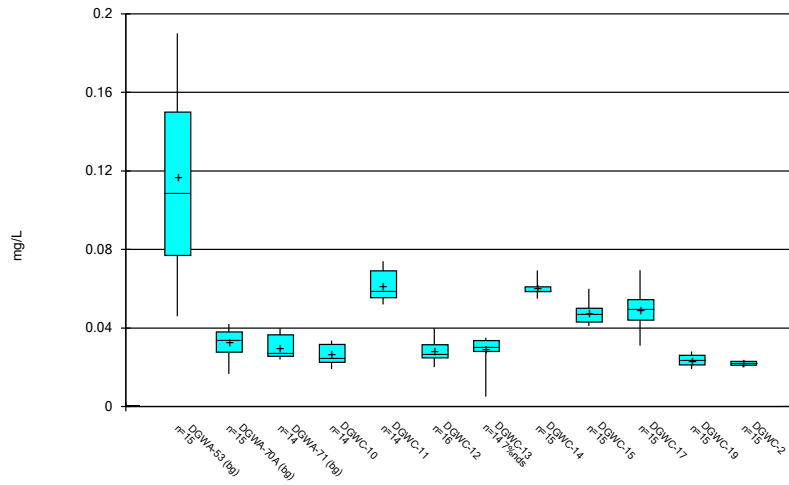
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



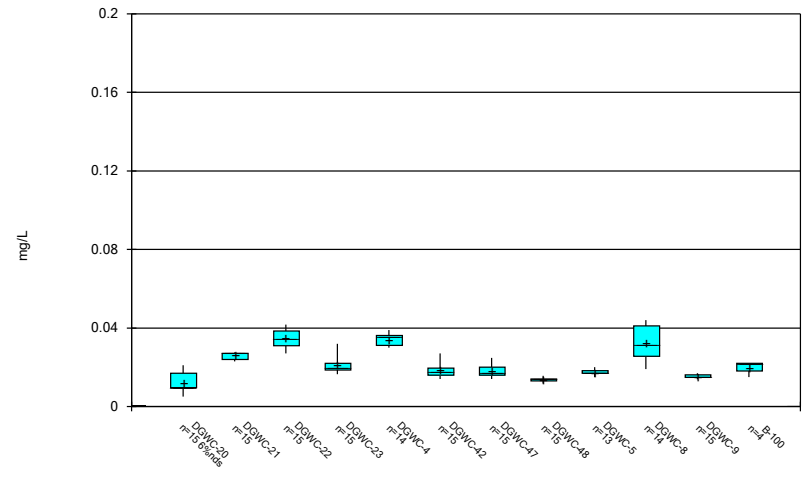
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Box & Whiskers Plot



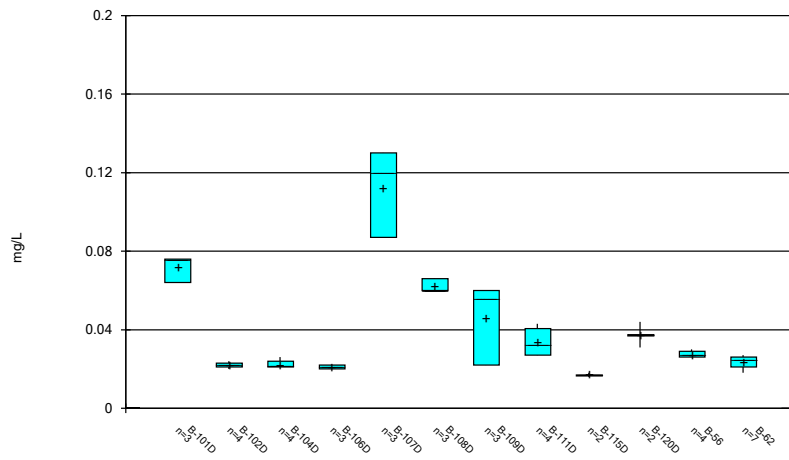
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



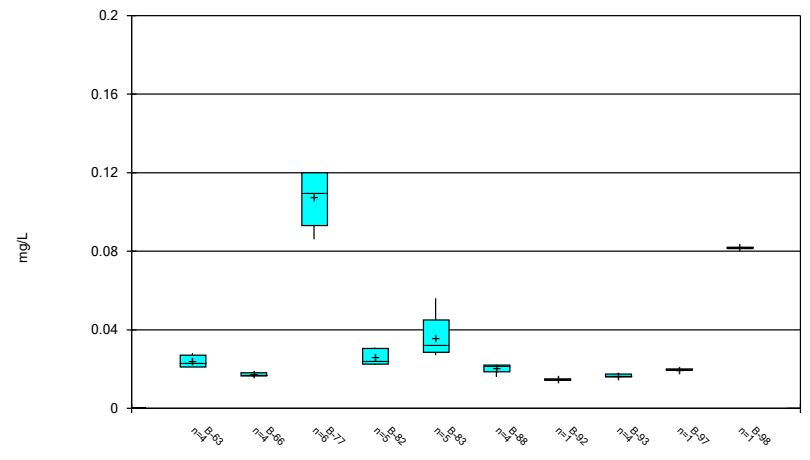
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



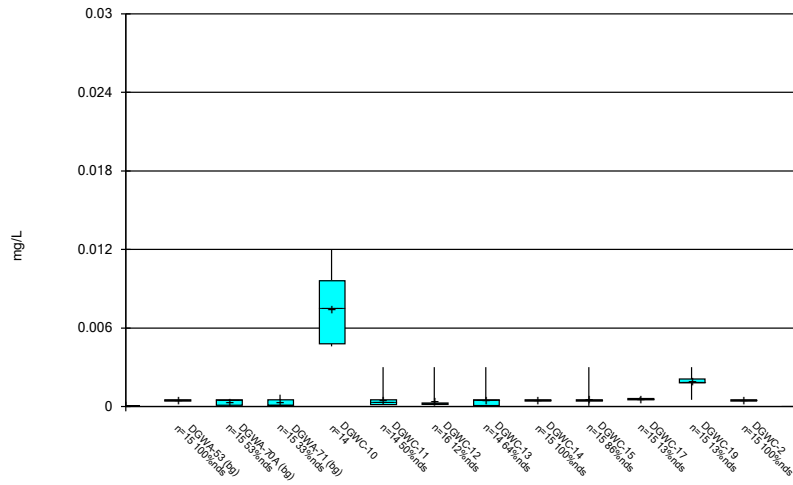
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



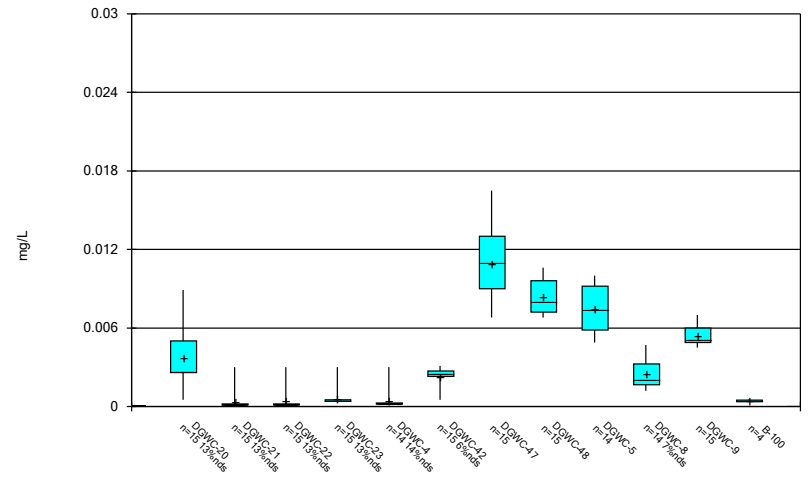
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Box & Whiskers Plot



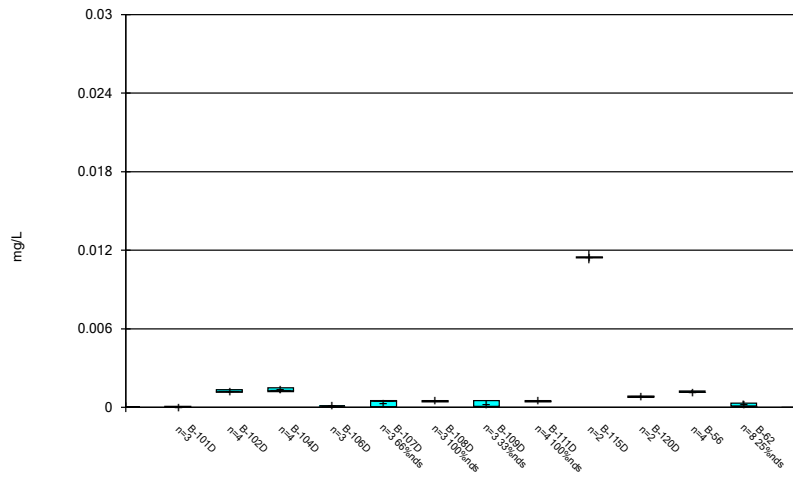
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Box & Whiskers Plot



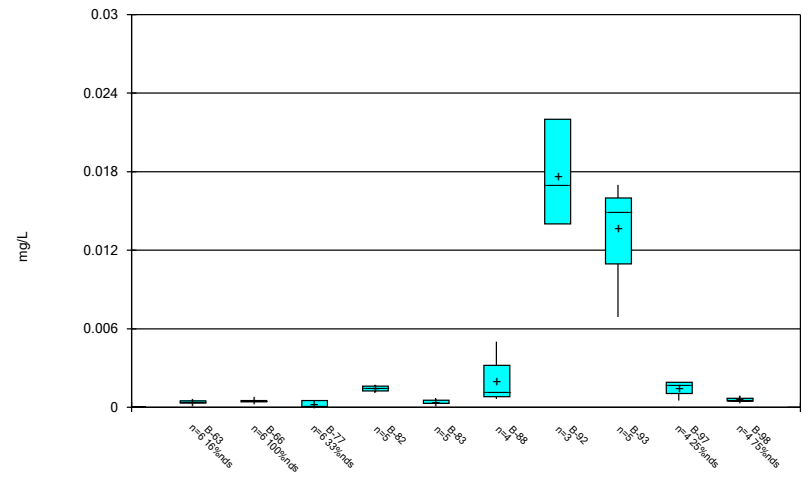
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Box & Whiskers Plot



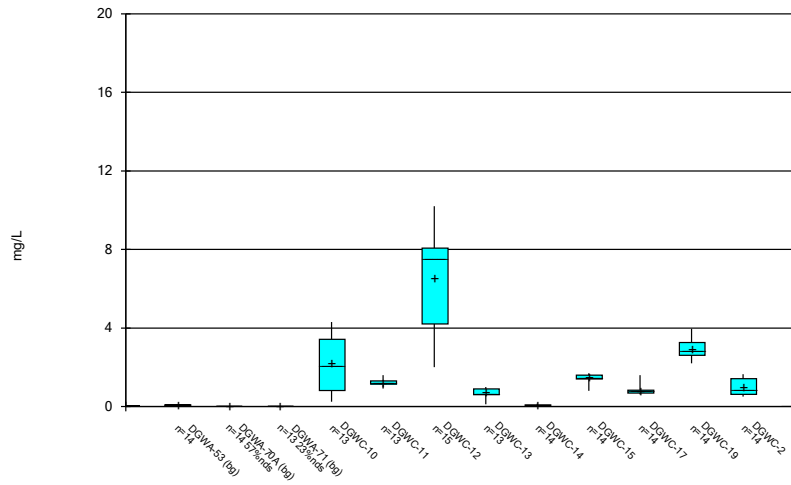
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Box & Whiskers Plot



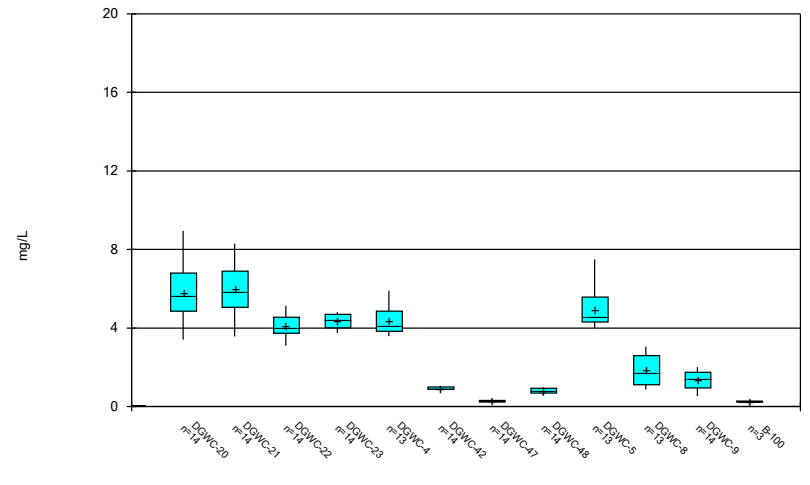
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Box & Whiskers Plot



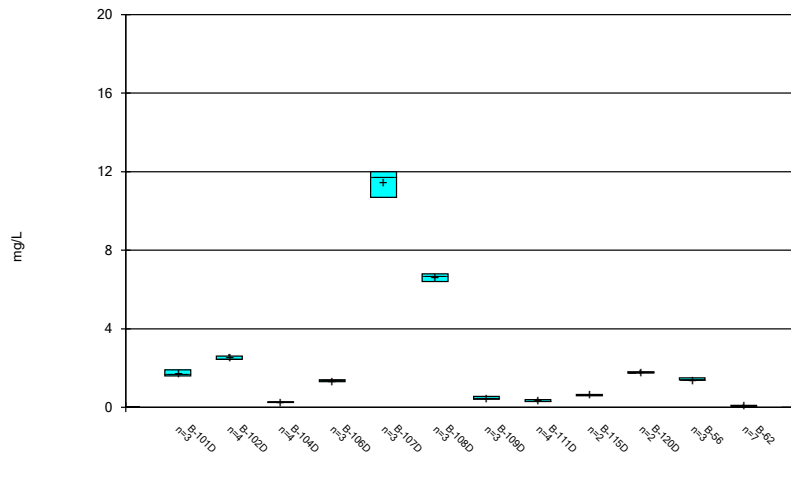
Constituent: Boron, total Analysis Run 11/8/2021 1:09 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



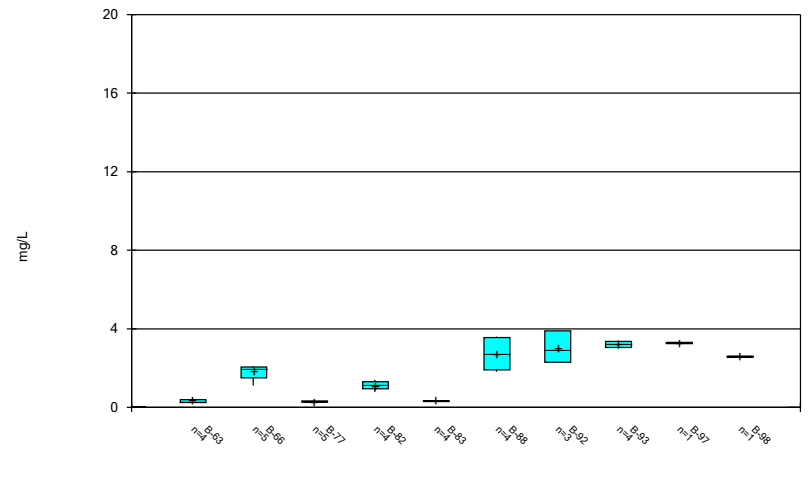
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Box & Whiskers Plot



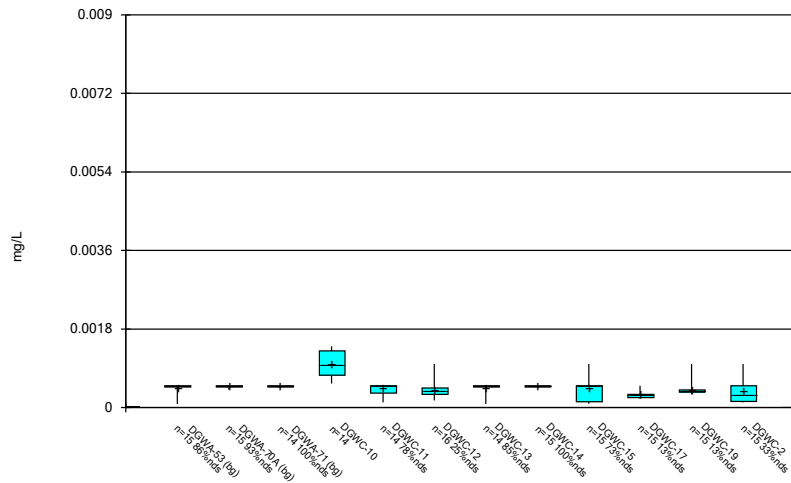
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Box & Whiskers Plot



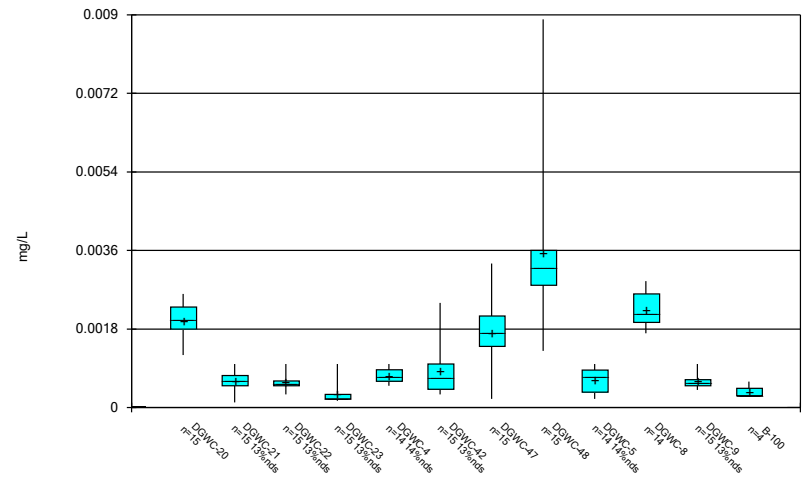
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Box & Whiskers Plot



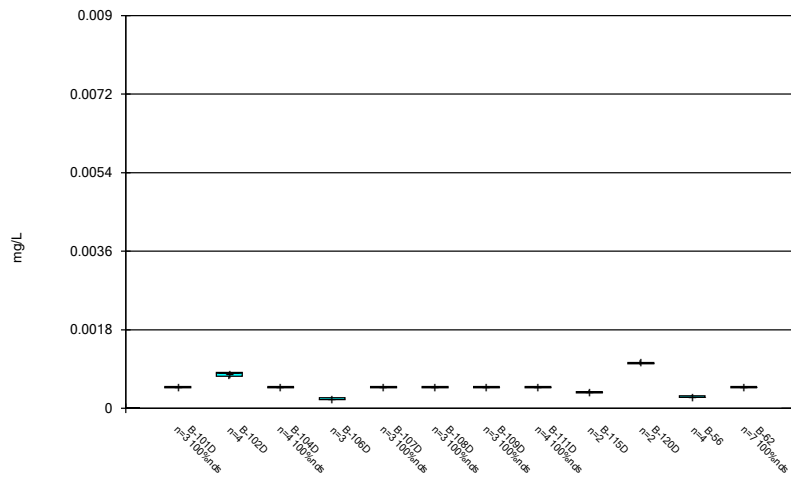
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Box & Whiskers Plot



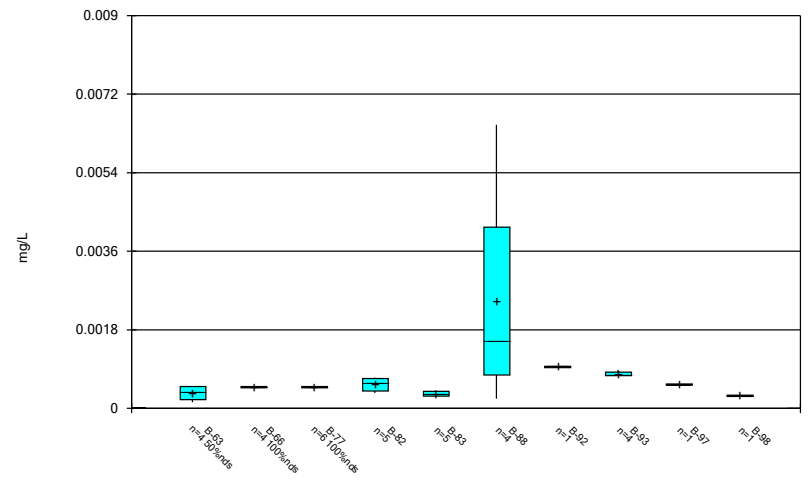
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



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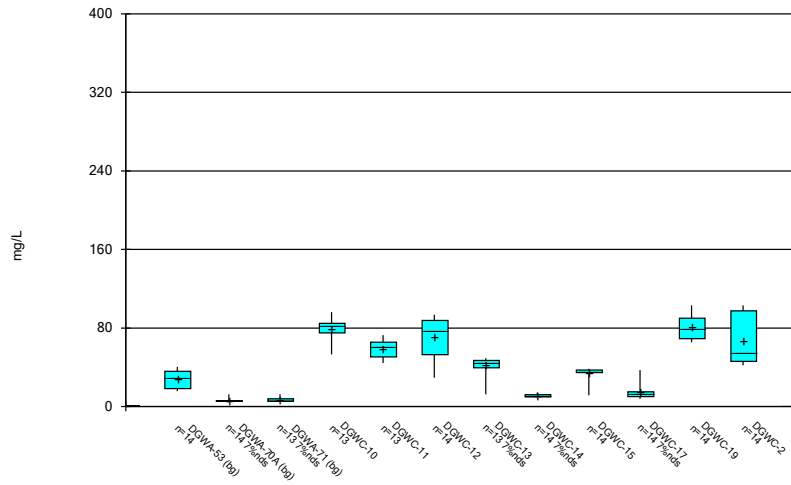
Box & Whiskers Plot



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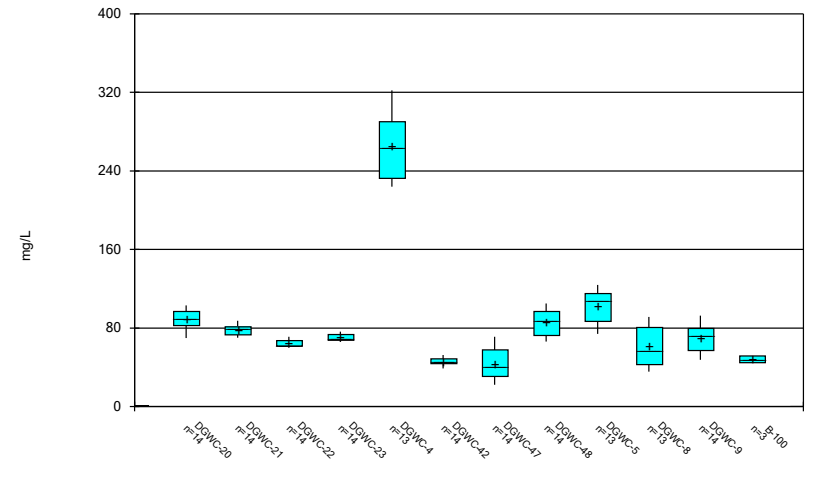


Box & Whiskers Plot



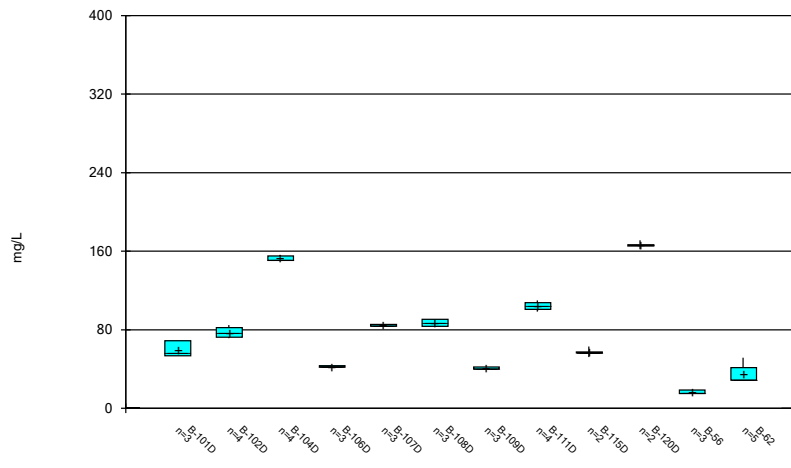
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Box & Whiskers Plot



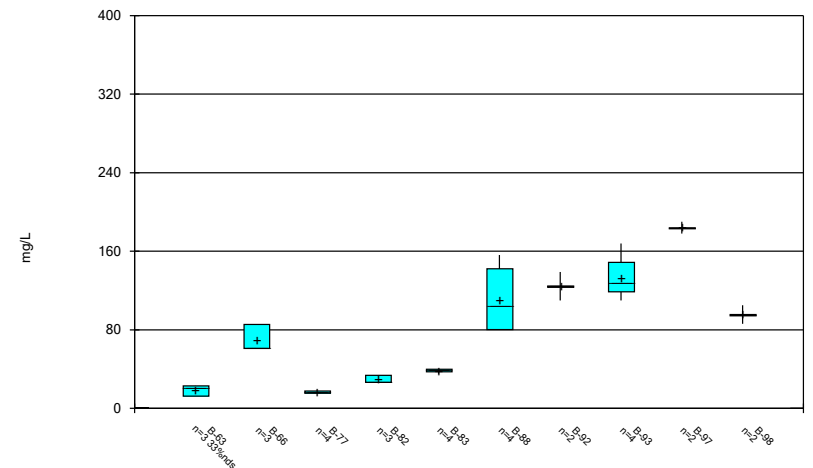
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Box & Whiskers Plot



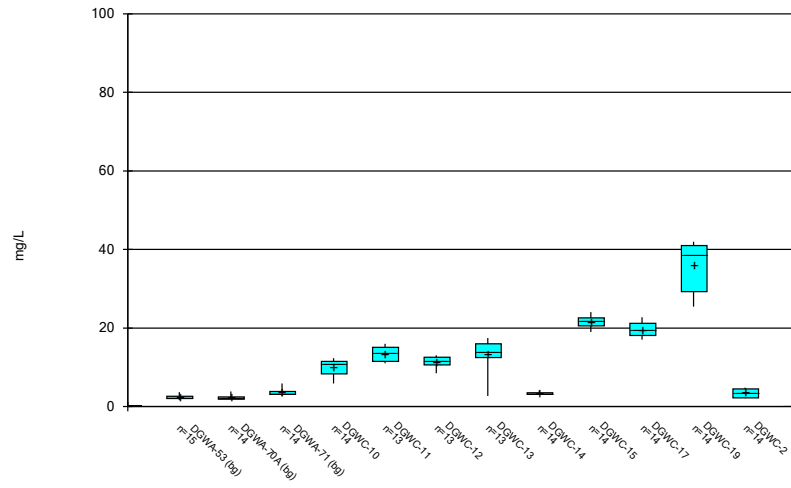
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



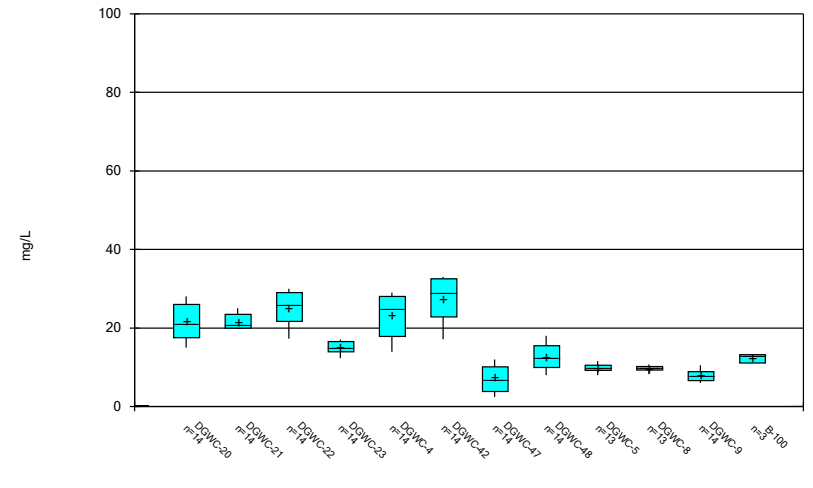
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



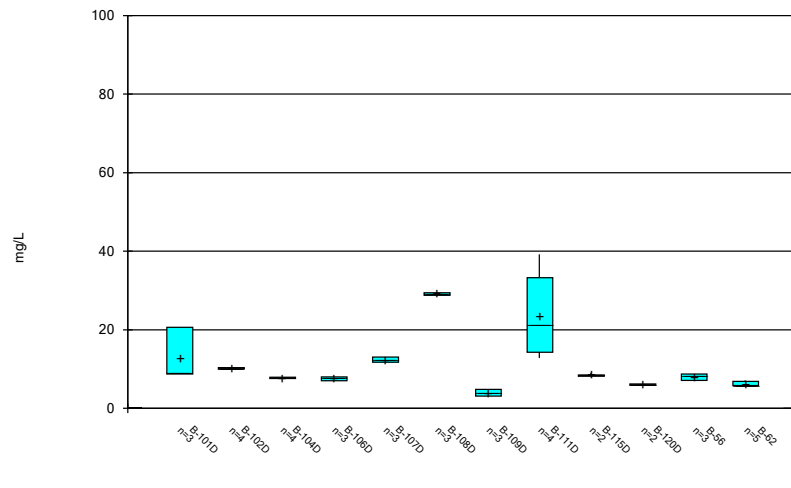
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



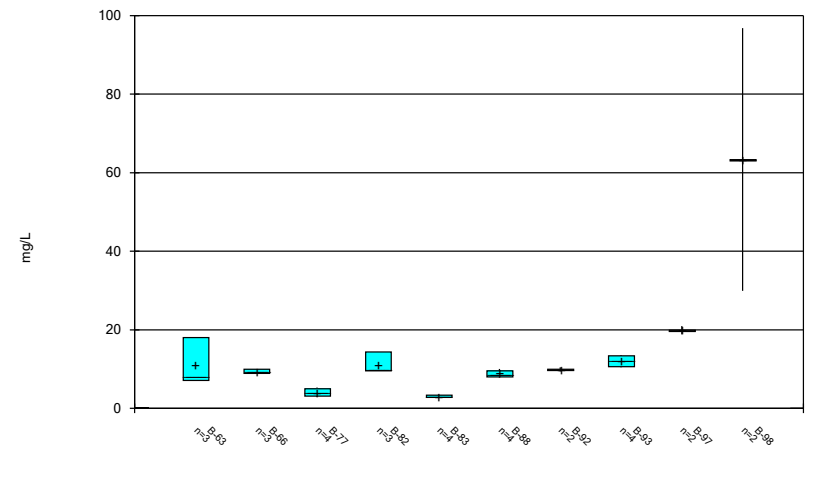
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Box & Whiskers Plot



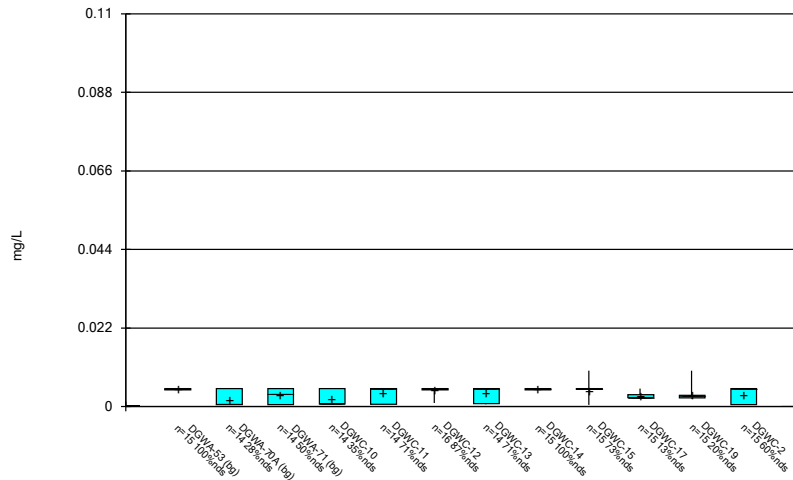
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



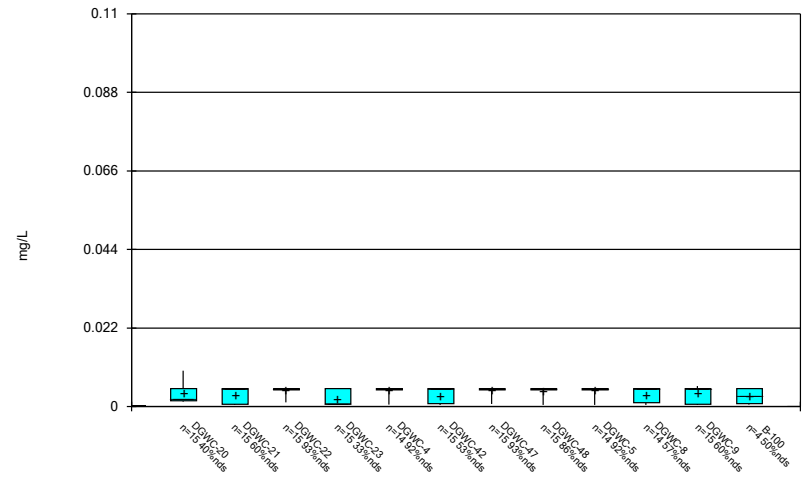
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



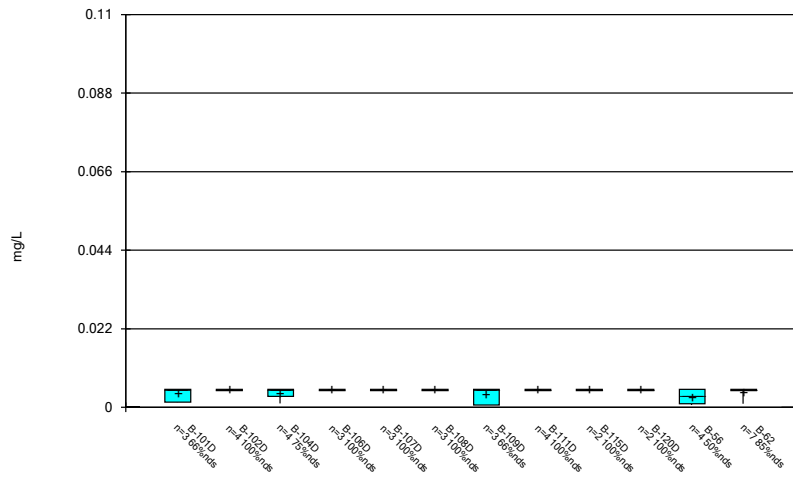
Constituent: Chromium Analysis Run 11/8/2021 1:09 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



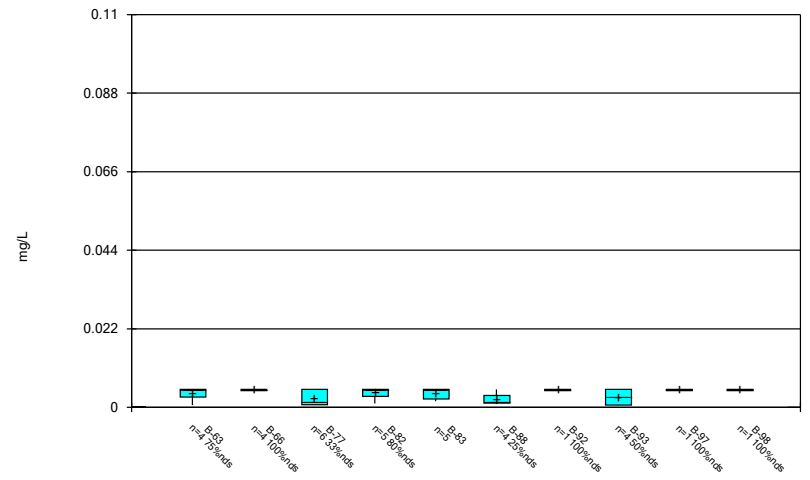
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



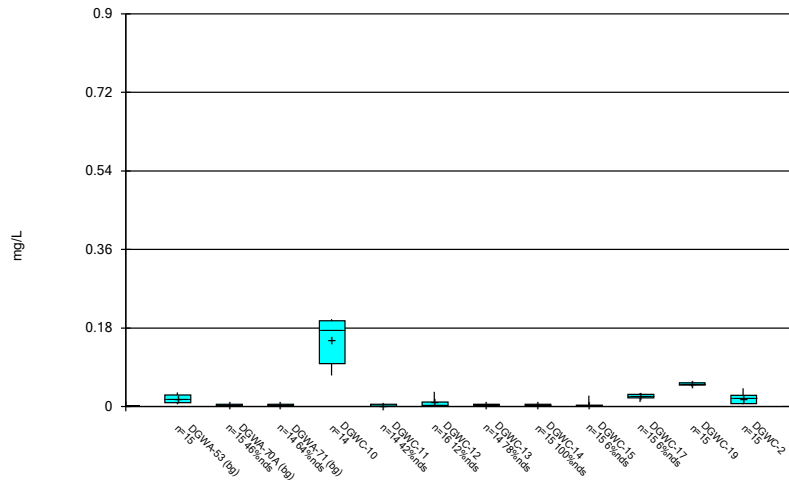
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



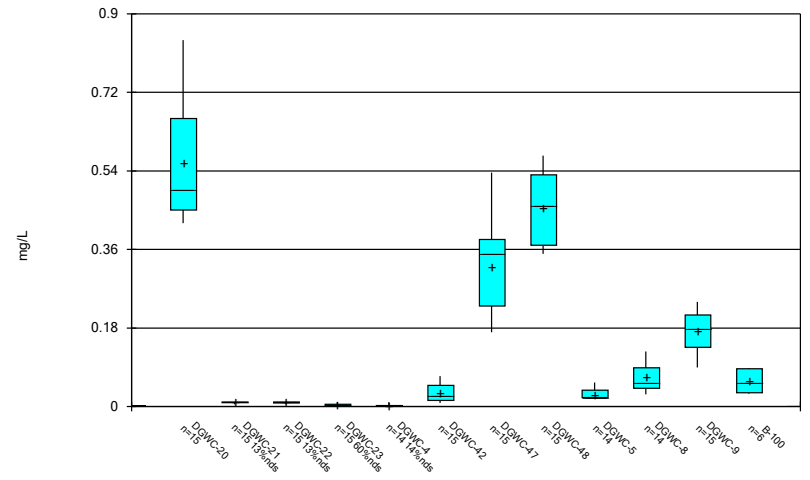
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



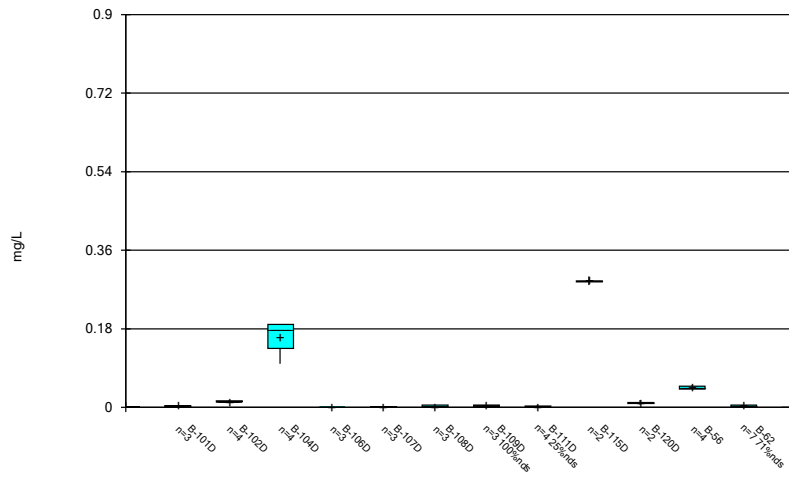
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Box & Whiskers Plot



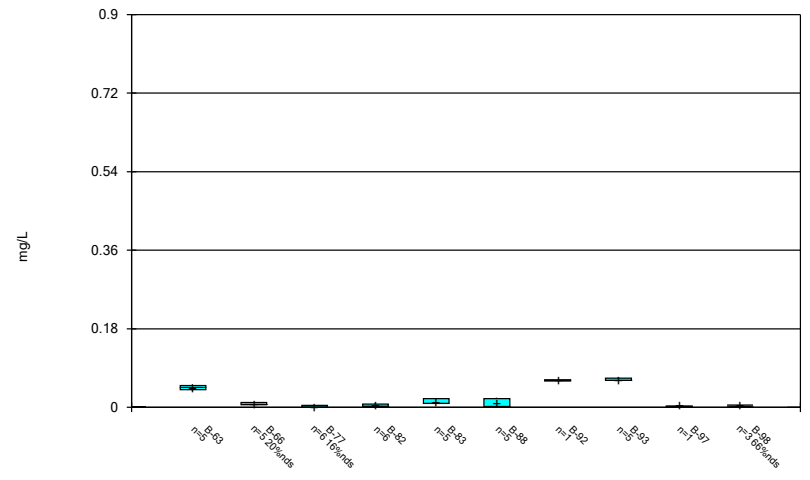
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Box & Whiskers Plot



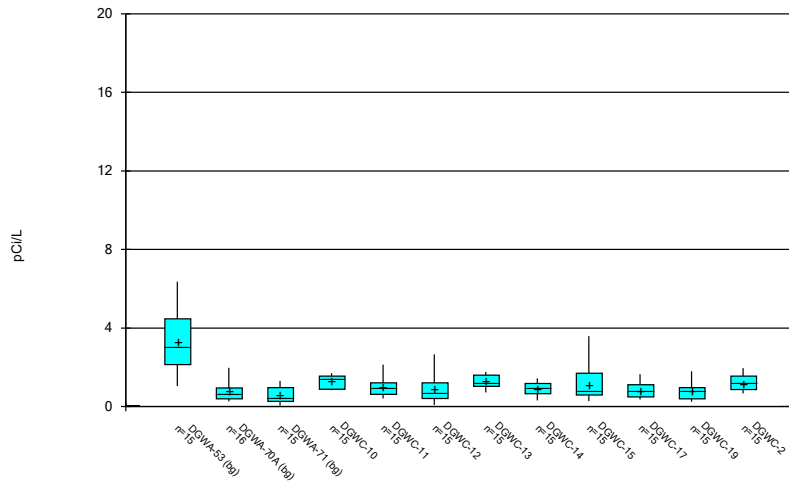
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Box & Whiskers Plot



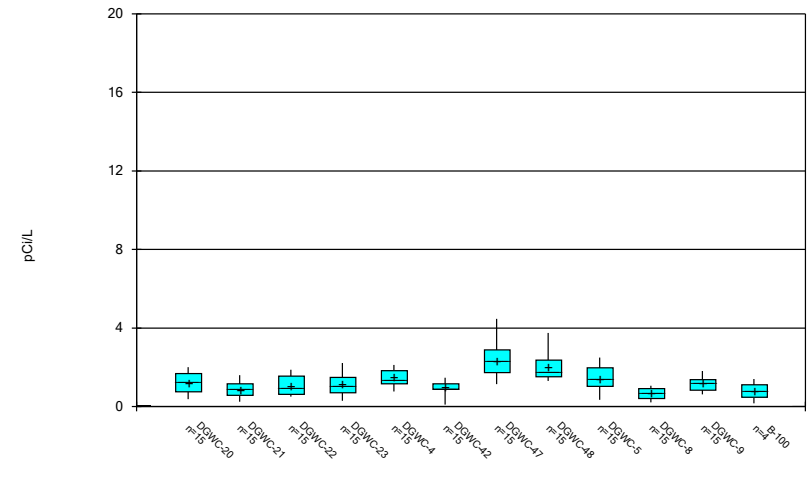
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Box & Whiskers Plot



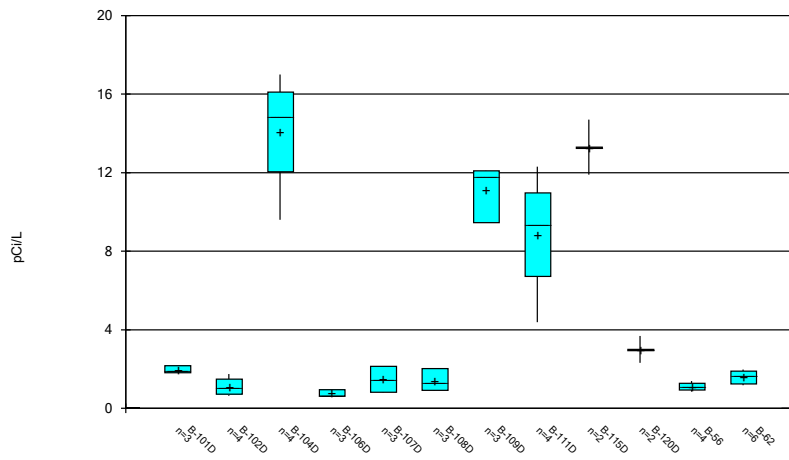
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



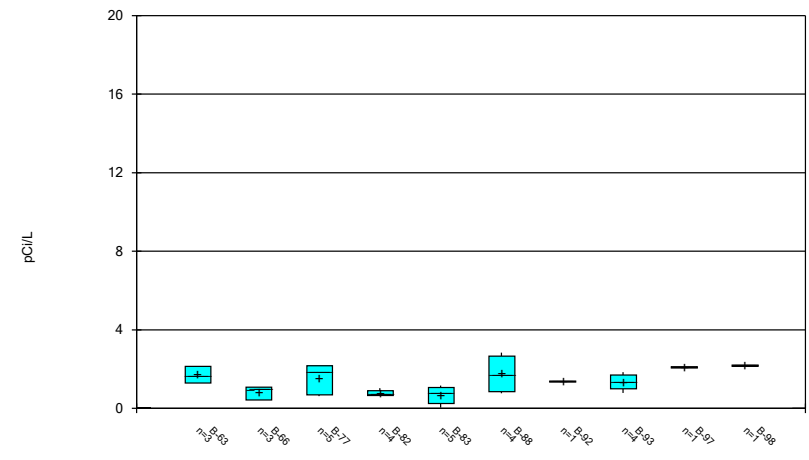
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Box & Whiskers Plot



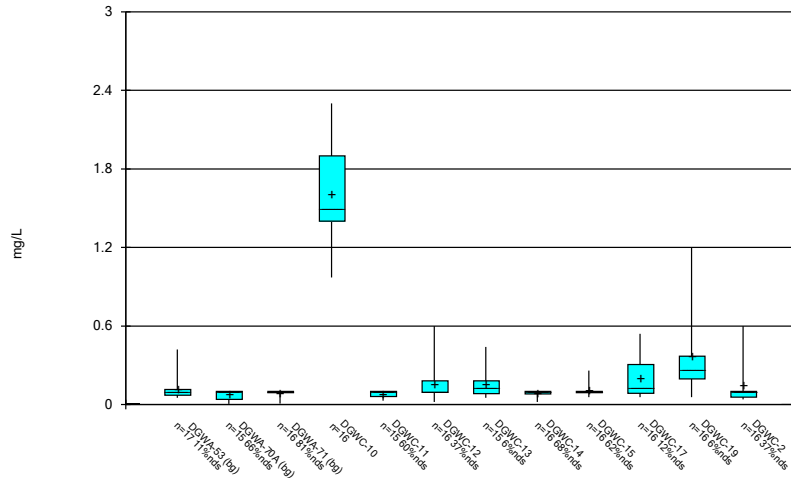
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



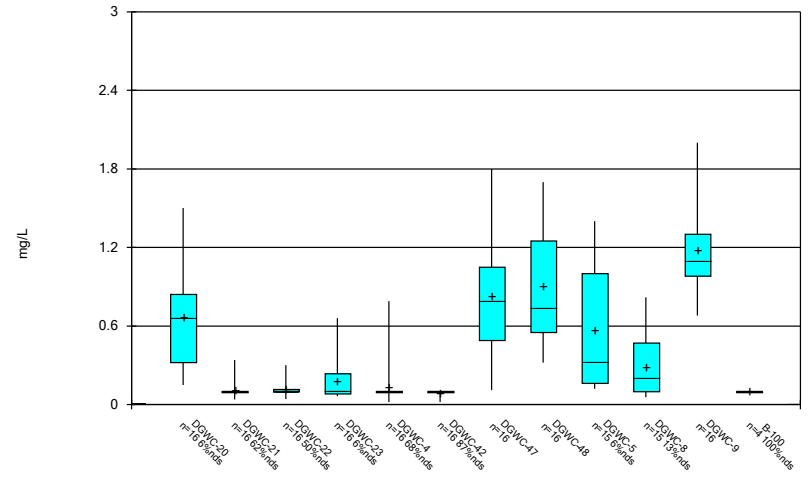
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



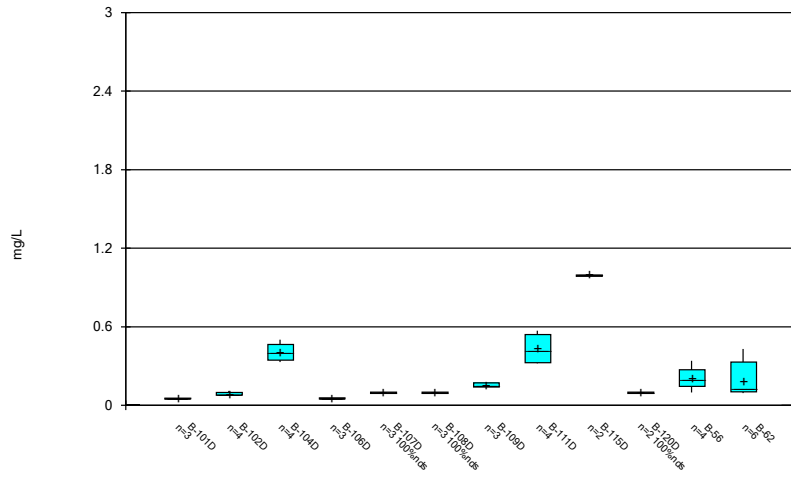
Constituent: Fluoride, total Analysis Run 11/8/2021 1:09 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



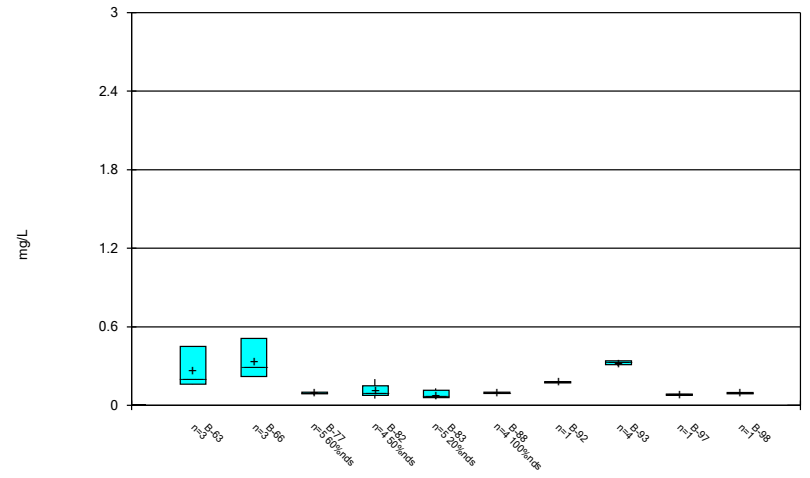
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### Box & Whiskers Plot



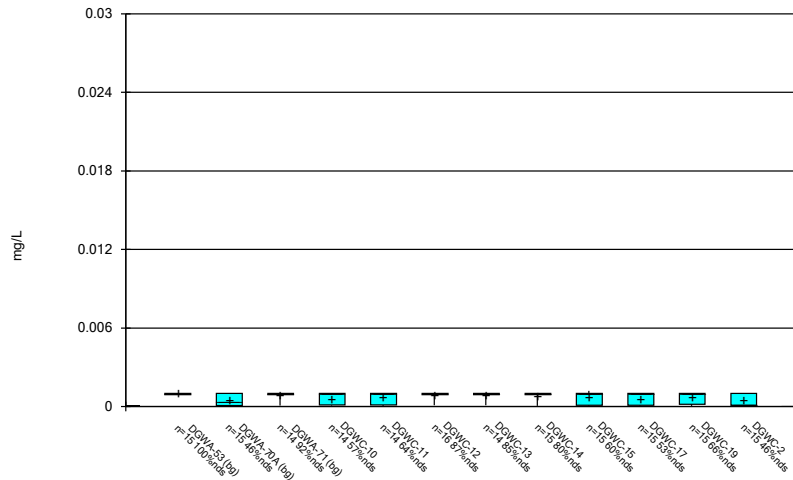
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### Box & Whiskers Plot



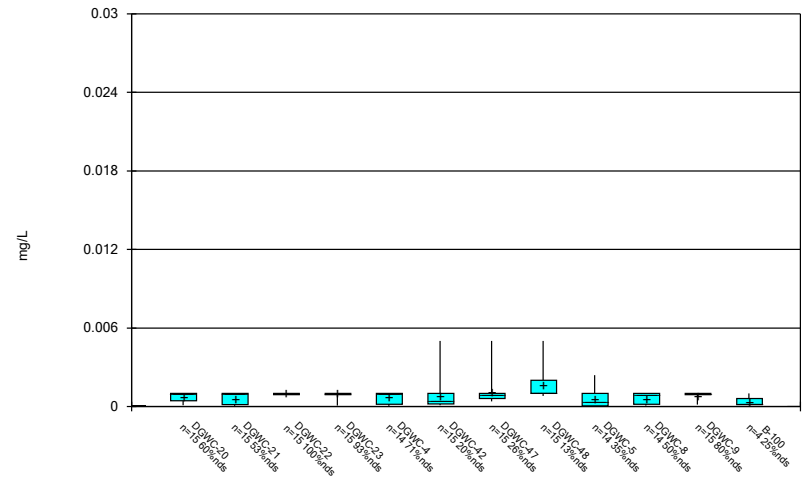
Constituent: Fluoride, total Analysis Run 11/8/2021 1:09 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



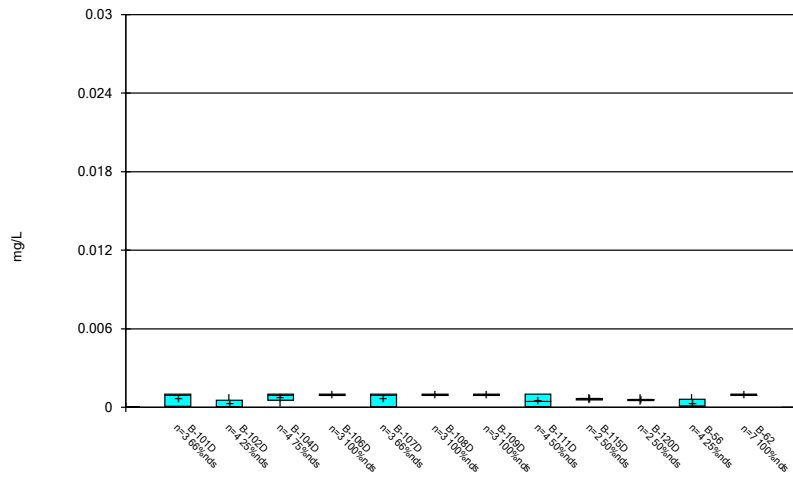
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



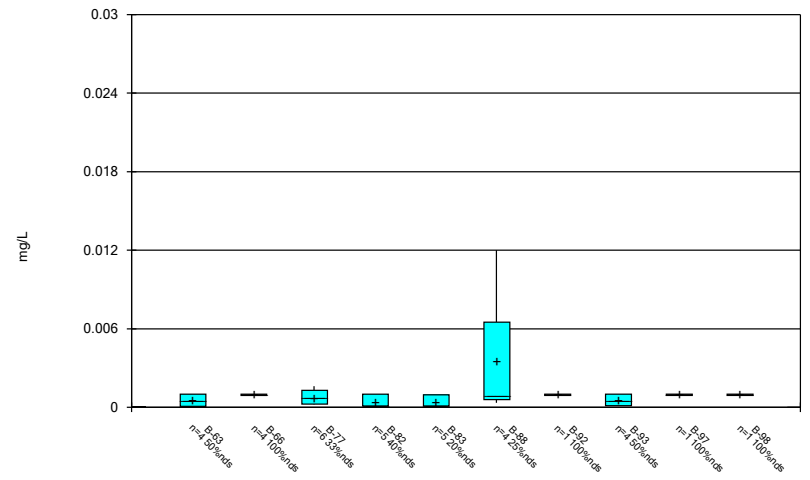
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



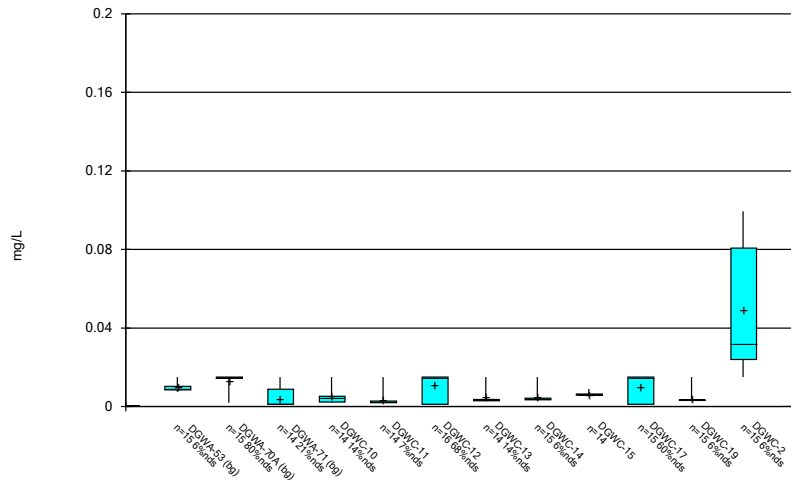
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



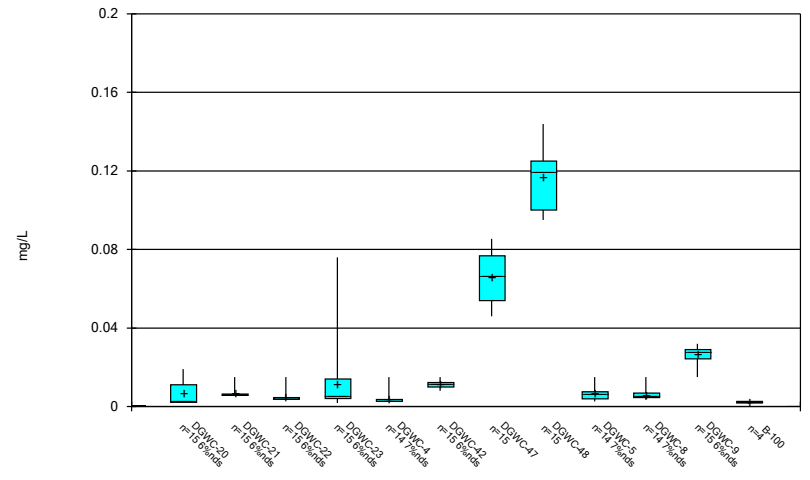
Constituent: Lead Analysis Run 11/8/2021 1:09 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



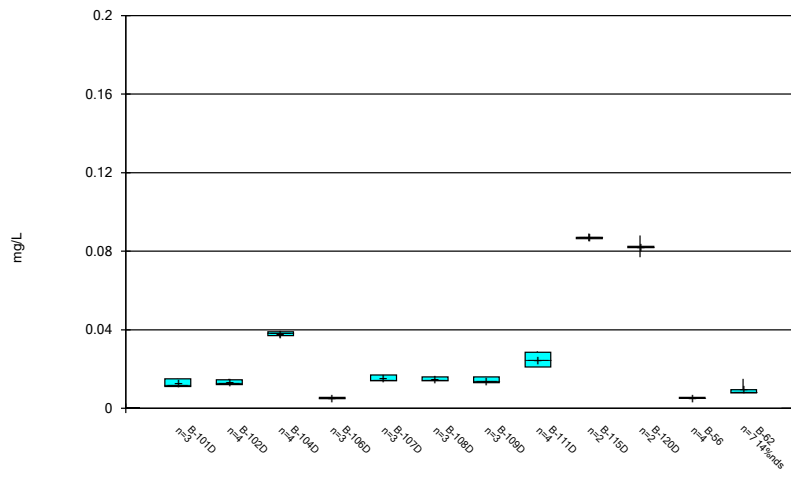
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



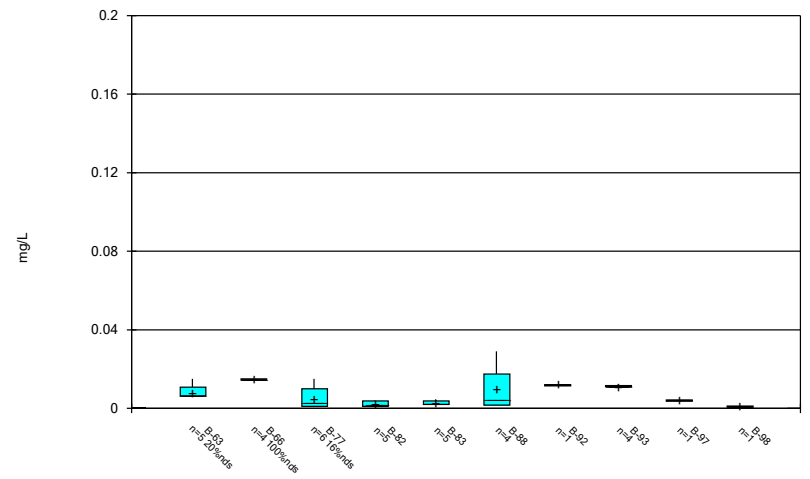
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



Constituent: Lithium Analysis Run 11/8/2021 1:09 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

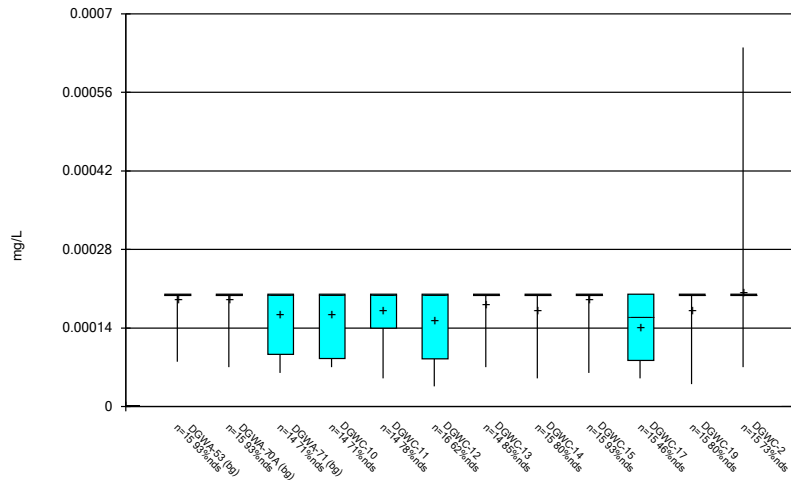
### Box & Whiskers Plot



Constituent: Lithium Analysis Run 11/8/2021 1:09 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

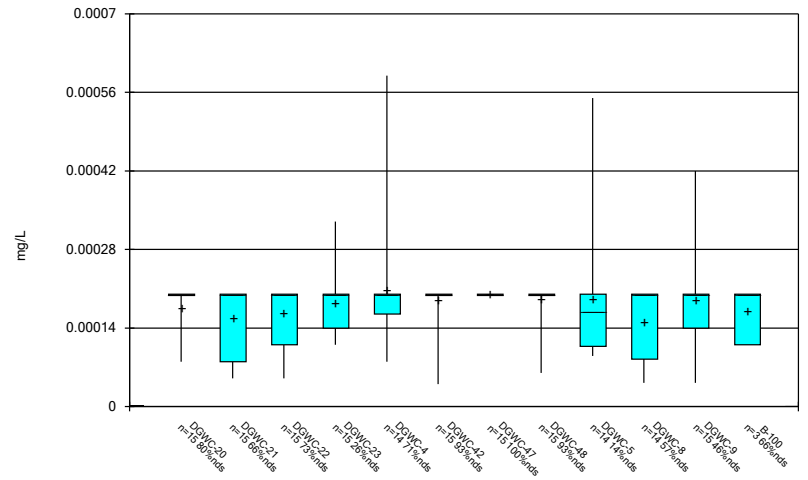


### Box & Whiskers Plot



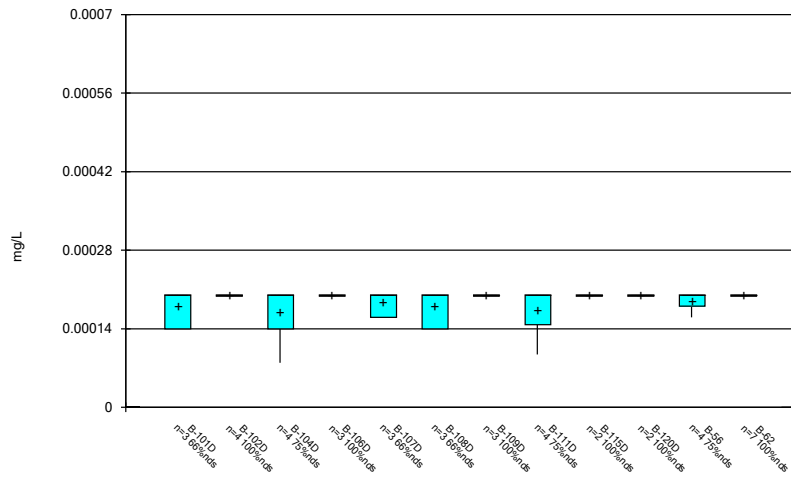
Constituent: Mercury Analysis Run 11/8/2021 1:09 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



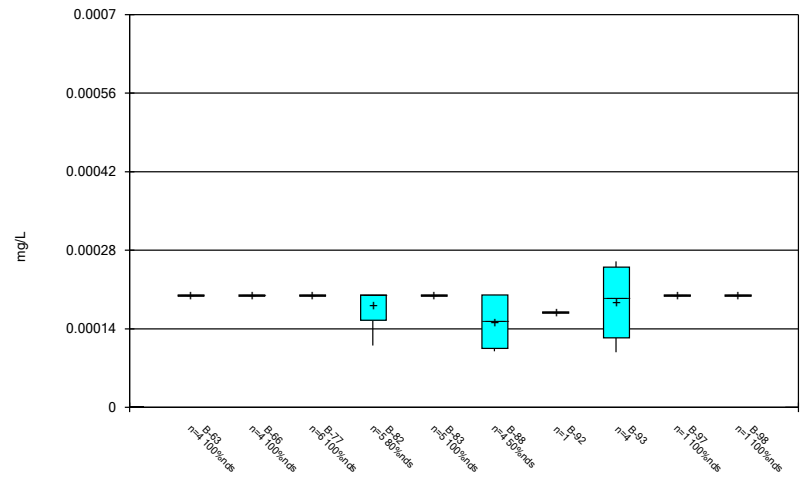
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



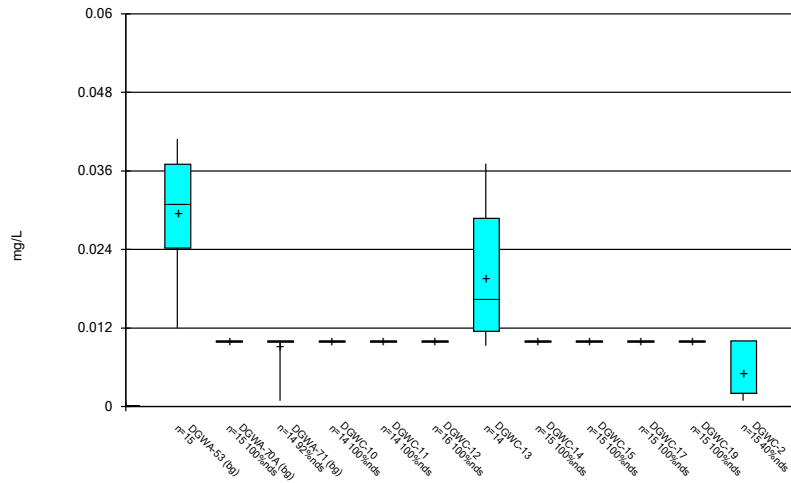
Constituent: Mercury Analysis Run 11/8/2021 1:09 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



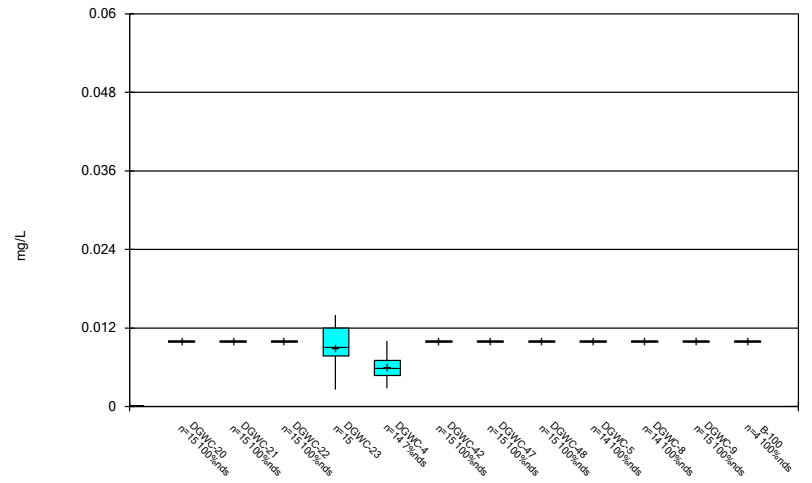
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



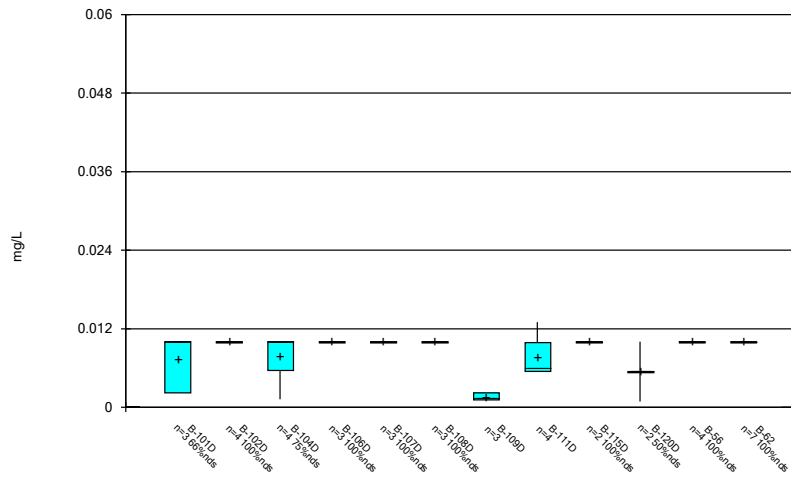
Constituent: Molybdenum Analysis Run 11/8/2021 1:09 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



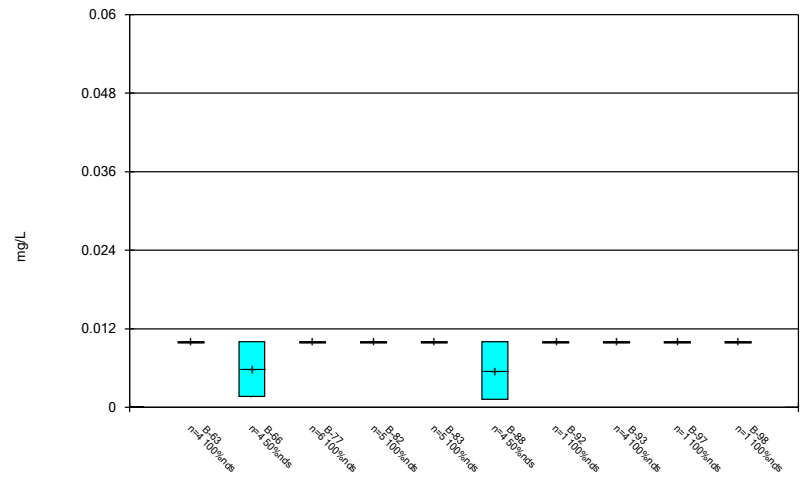
Constituent: Molybdenum Analysis Run 11/8/2021 1:09 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



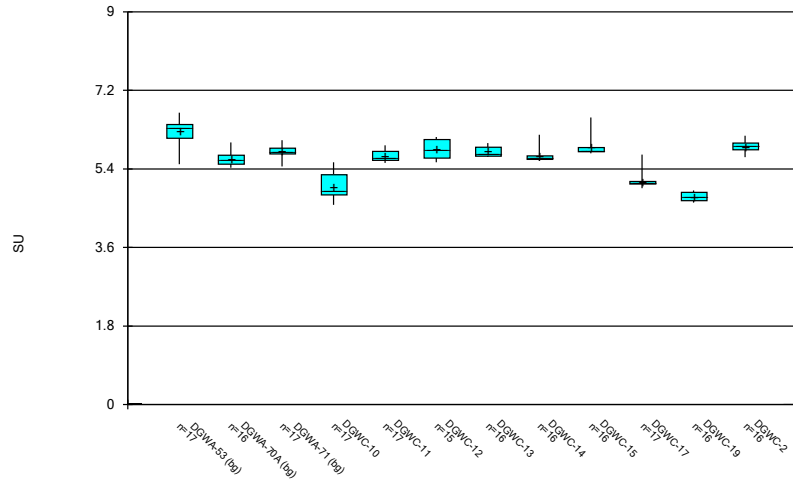
Constituent: Molybdenum Analysis Run 11/8/2021 1:09 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



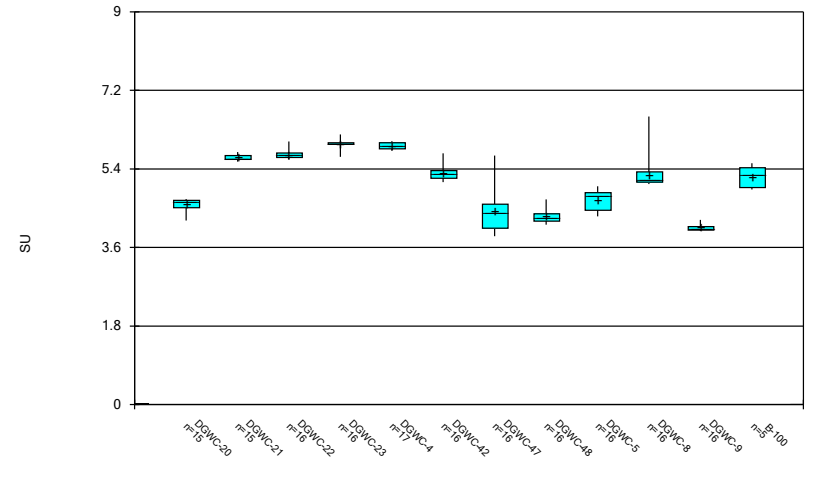
Constituent: Molybdenum Analysis Run 11/8/2021 1:09 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



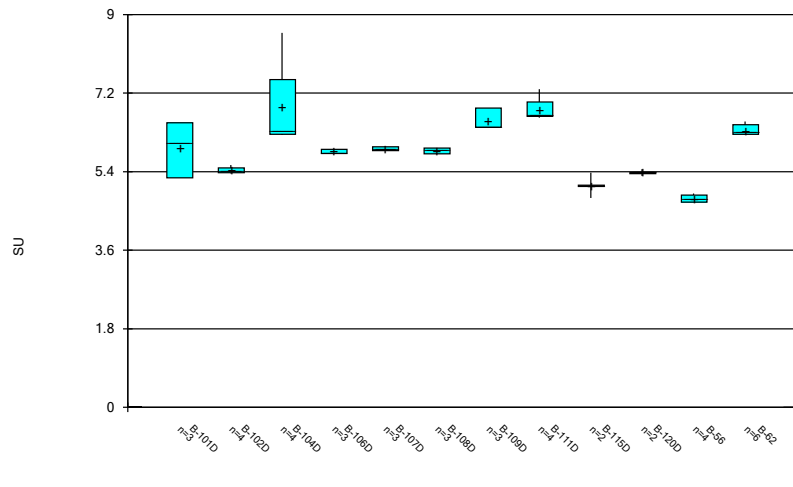
Constituent: pH, Field Analysis Run 11/8/2021 1:09 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



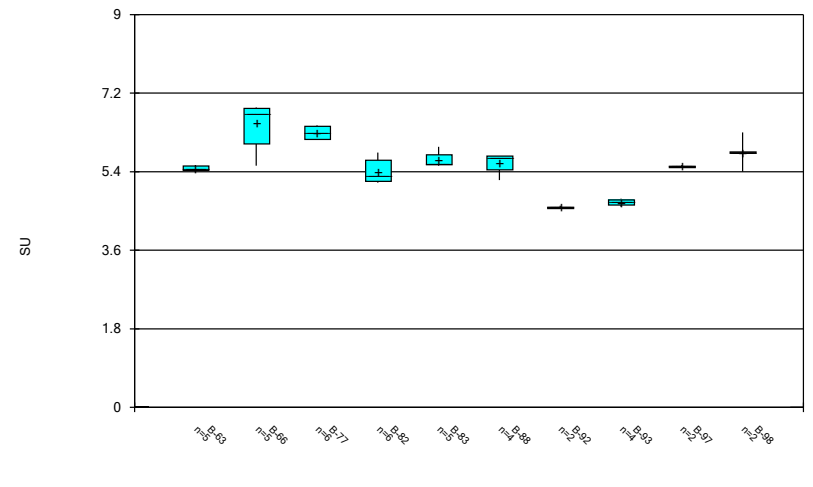
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



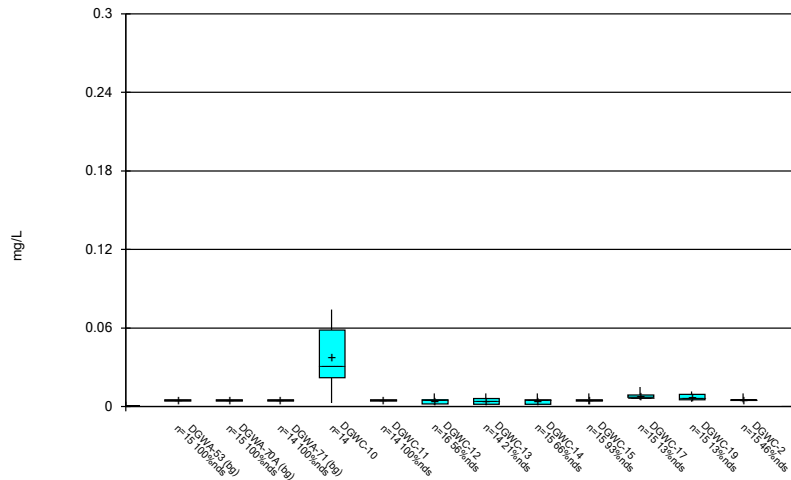
Constituent: pH, Field Analysis Run 11/8/2021 1:09 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



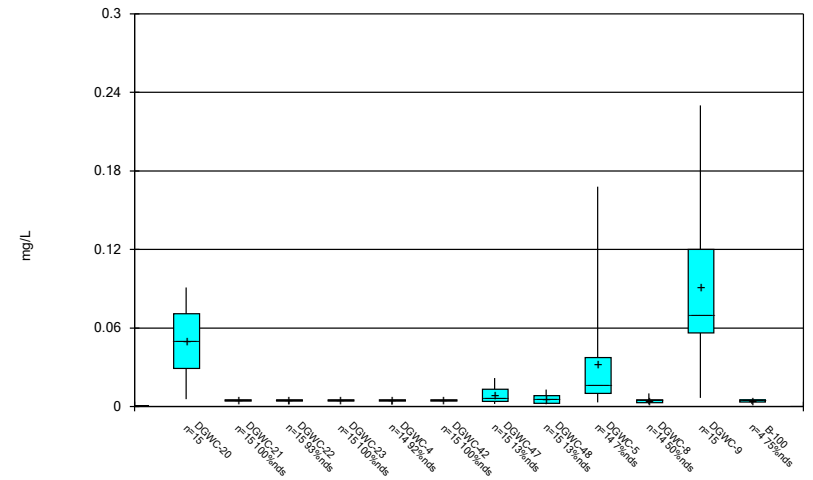
Constituent: pH, Field Analysis Run 11/8/2021 1:09 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



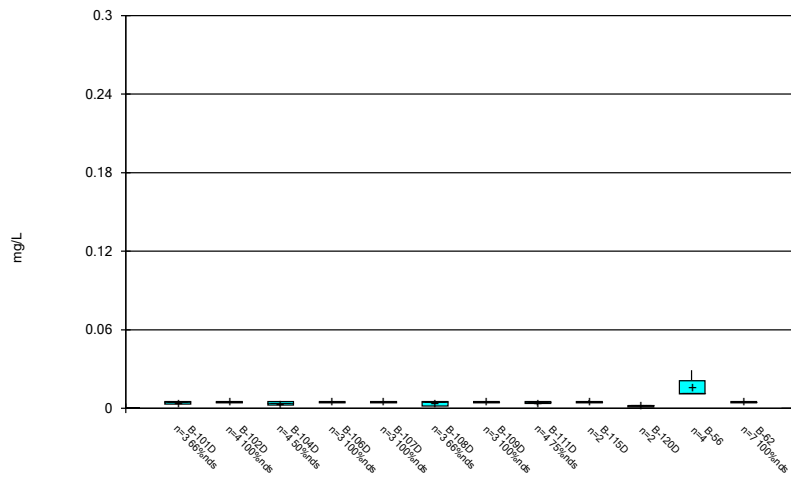
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



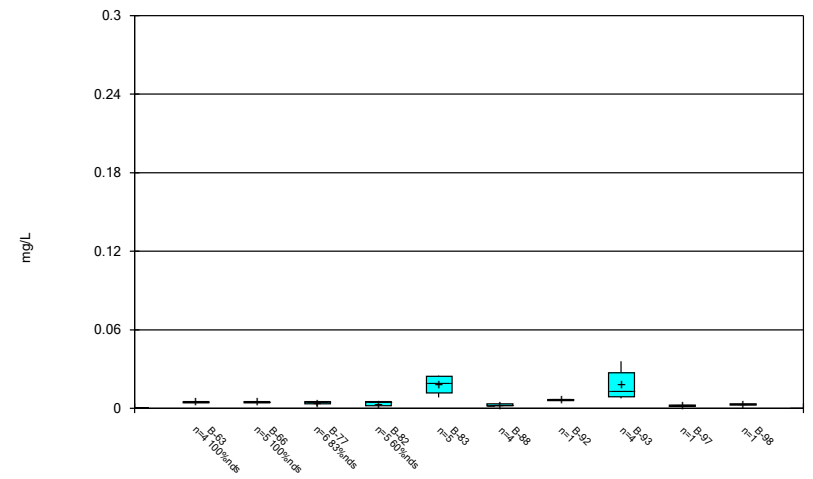
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



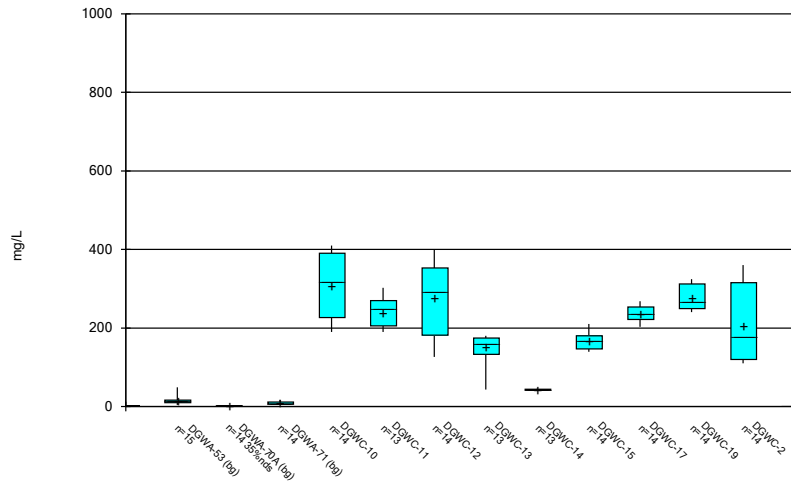
Constituent: Selenium Analysis Run 11/8/2021 1:09 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



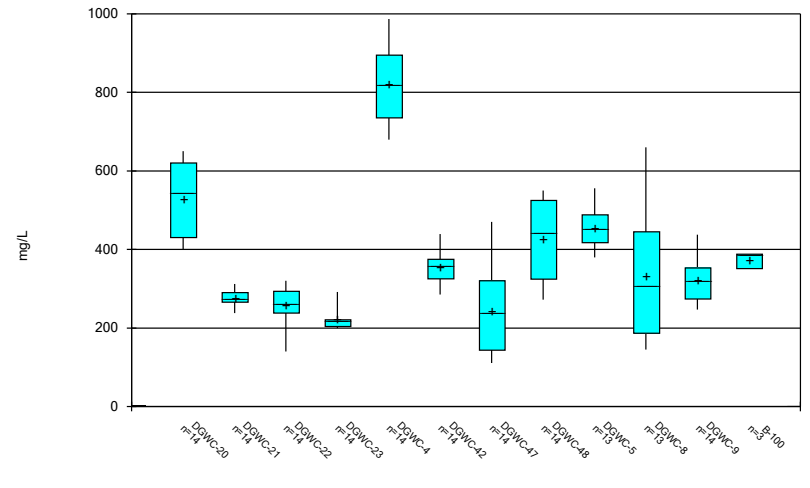
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



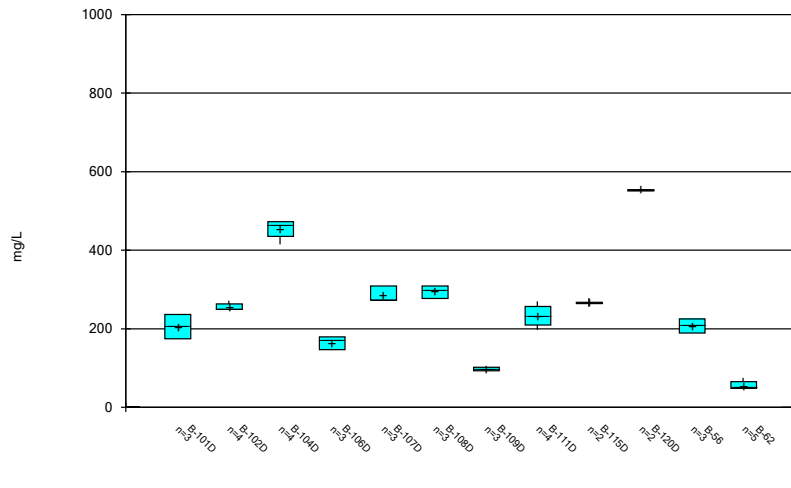
Constituent: Sulfate as SO4 Analysis Run 11/8/2021 1:09 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



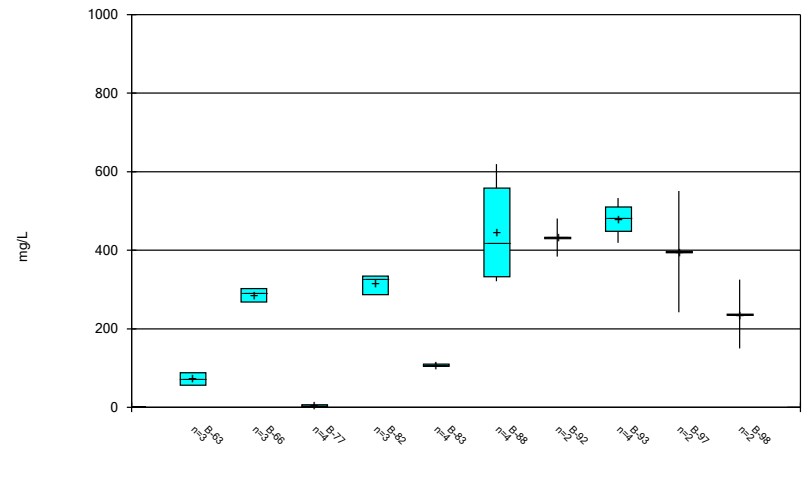
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



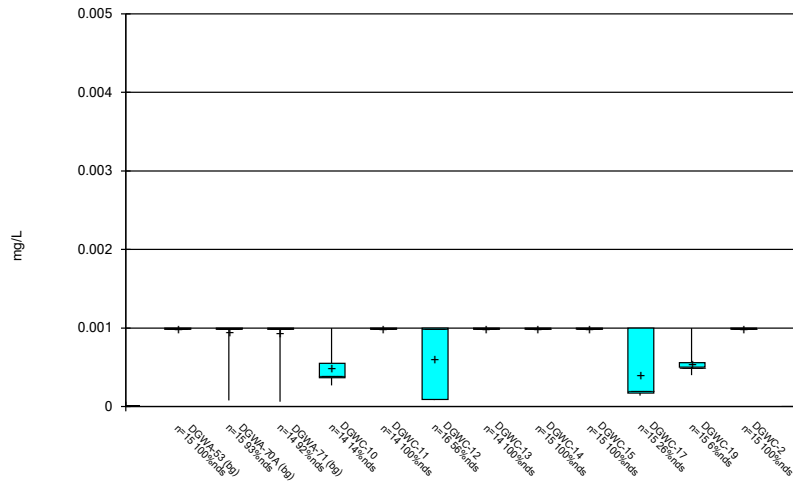
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



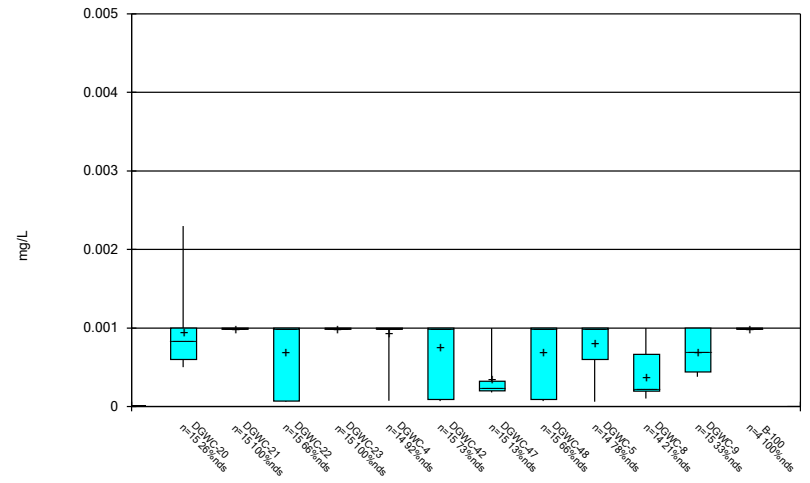
Constituent: Sulfate as SO4 Analysis Run 11/8/2021 1:09 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



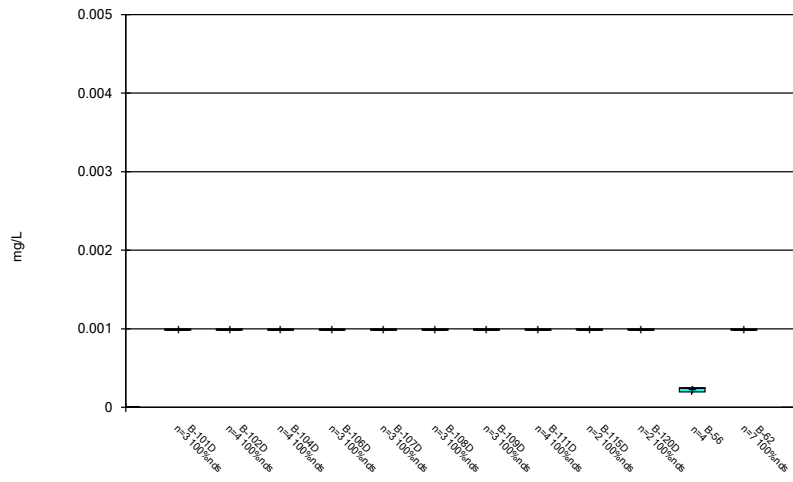
Constituent: Thallium Analysis Run 11/8/2021 1:09 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



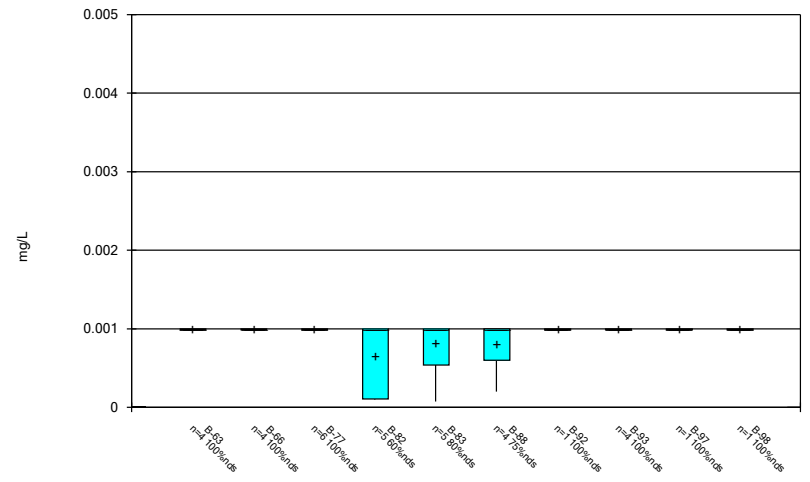
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



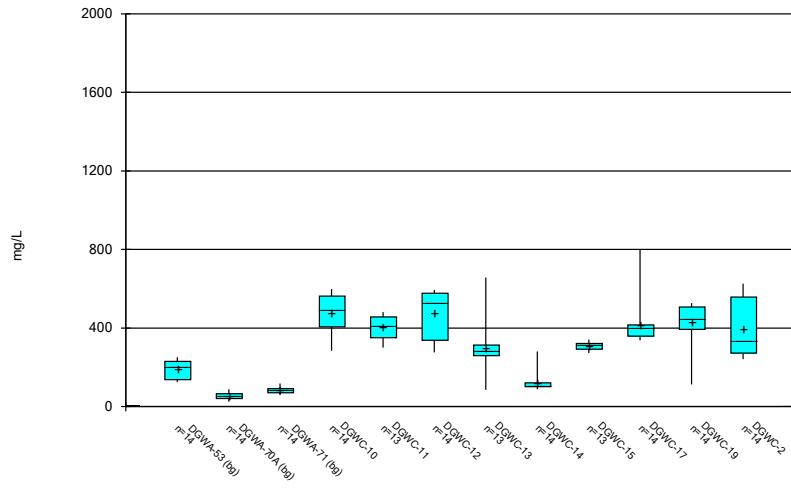
Constituent: Thallium Analysis Run 11/8/2021 1:09 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



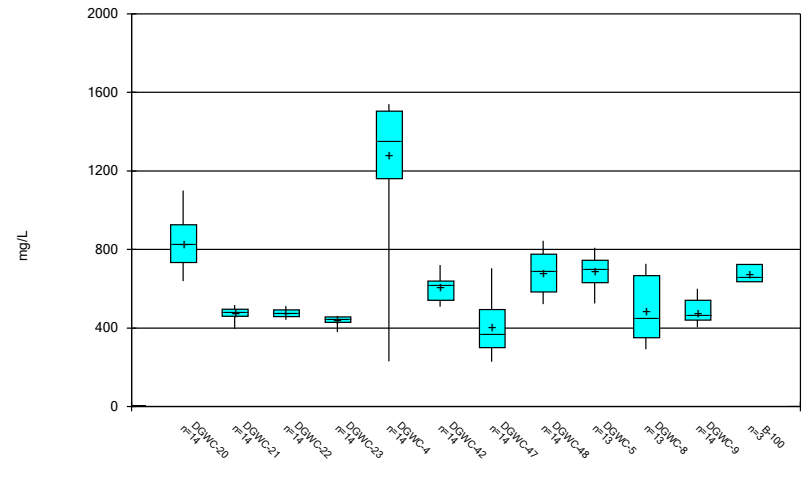
Constituent: Thallium Analysis Run 11/8/2021 1:09 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



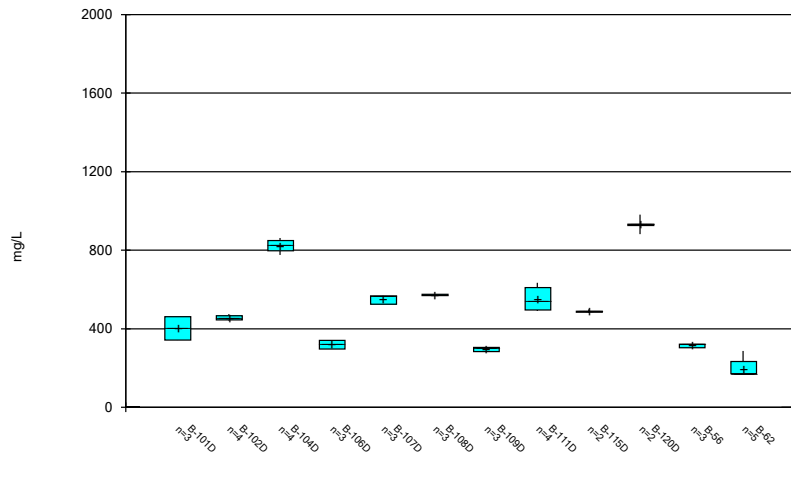
Constituent: Total Dissolved Solids [TDS] Analysis Run 11/8/2021 1:09 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



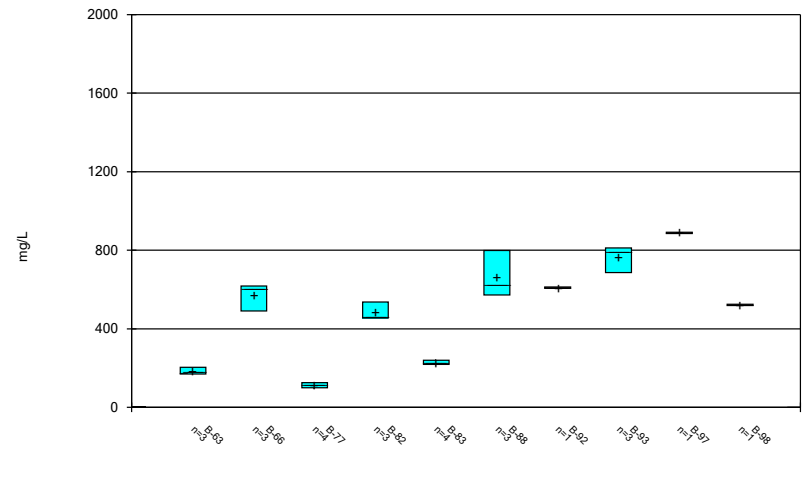
Constituent: Total Dissolved Solids [TDS] Analysis Run 11/8/2021 1:09 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 11/8/2021 1:09 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 11/8/2021 1:09 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE C.



# Outlier Summary

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 1:13 PM

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	DGWC-5 Barium (mg/L)	DGWC-12 Chloride, Total (mg/L)	DGWA-70A Chromium (mg/L)	DGWA-70A Fluoride, total (mg/L)	DGWC-15 Lithium (mg/L)	DGWC-14 Sulfate as SO4 (mg/L)	DGWA-53 Total Dissolved Solids [TDS] (mg/L)	DGWC-15 Total Dissolved Solids [TDS] (mg/L)
8/31/2016	0.0266 (O)							
12/7/2016		20 (O)						
3/28/2017			1.2 (O)					
3/29/2017					81 (O)			
7/12/2017							490 (O)	
10/24/2017						671 (O)		
11/7/2018				<0.05 (O)				
10/15/2019		0.034 (O)						

FIGURE D.

# Appendix III Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 1:20 PM

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	9/10/2021	0.24	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	9/9/2021	1.5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	9/9/2021	2	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	9/9/2021	0.62	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	9/9/2021	1.6	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	9/13/2021	0.78	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	9/9/2021	2.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	9/9/2021	0.51	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	9/10/2021	4.8	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	9/9/2021	5.8	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	9/10/2021	4.5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	9/9/2021	4.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	9/10/2021	5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	9/13/2021	0.95	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	9/10/2021	0.16	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	9/10/2021	0.55	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	9/10/2021	4.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	9/13/2021	0.86	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	9/10/2021	0.54	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	9/10/2021	82.4	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	9/9/2021	66.8	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	9/9/2021	93.6	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-2	40.3	n/a	9/9/2021	42	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	9/10/2021	69.8	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	9/9/2021	75.3	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	9/10/2021	62.3	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	9/9/2021	76.4	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	9/10/2021	285	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	9/10/2021	68.7	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	9/10/2021	123	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	9/10/2021	47.7	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-10	5.07	n/a	9/10/2021	8.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-11	5.07	n/a	9/9/2021	13.6	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-12	5.07	n/a	9/9/2021	8.5	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-13	5.07	n/a	9/9/2021	12.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-15	5.07	n/a	9/9/2021	21.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-17	5.07	n/a	9/13/2021	18.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-19	5.07	n/a	9/9/2021	25.4	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-20	5.07	n/a	9/10/2021	26.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-21	5.07	n/a	9/9/2021	20.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-22	5.07	n/a	9/10/2021	17.3	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-23	5.07	n/a	9/9/2021	12.3	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-4	5.07	n/a	9/10/2021	13.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-42	5.07	n/a	9/13/2021	17.1	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-48	5.07	n/a	9/10/2021	10.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-5	5.07	n/a	9/10/2021	9.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-8	5.07	n/a	9/13/2021	8.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-9	5.07	n/a	9/10/2021	9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Fluoride, total (mg/L)	DGWC-10	0.42	n/a	9/10/2021	2.2	Yes	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-48	0.42	n/a	9/10/2021	0.47	Yes	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-9	0.42	n/a	9/10/2021	2	Yes	48	n/a	n/a	52.08	n/a	n/a	0.0007788	NP Inter (NDs) 1 of 2
pH, Field (SU)	DGWC-10	6.646	5.155	9/10/2021	5.05	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-17	6.646	5.155	9/13/2021	5.06	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-19	6.646	5.155	9/9/2021	4.82	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2

# Appendix III Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 1:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (SU)	DGWC-20	6.646	5.155	9/10/2021	4.67	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-42	6.646	5.155	9/13/2021	5.15	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-47	6.646	5.155	9/10/2021	4.1	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-48	6.646	5.155	9/10/2021	4.3	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-5	6.646	5.155	9/10/2021	4.89	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-8	6.646	5.155	9/13/2021	5.05	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-9	6.646	5.155	9/10/2021	3.98	Yes	50	5.9	0.3378	0	None	No	0.0001881	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-10	33.32	n/a	9/10/2021	271	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-11	33.32	n/a	9/9/2021	247	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-12	33.32	n/a	9/9/2021	126	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-13	33.32	n/a	9/9/2021	127	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-14	33.32	n/a	9/9/2021	42.3	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-15	33.32	n/a	9/9/2021	139	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-17	33.32	n/a	9/13/2021	222	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-19	33.32	n/a	9/9/2021	315	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-2	33.32	n/a	9/9/2021	110	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-20	33.32	n/a	9/10/2021	399	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	33.32	n/a	9/9/2021	238	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	33.32	n/a	9/10/2021	234	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	33.32	n/a	9/9/2021	217	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	33.32	n/a	9/10/2021	823	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	33.32	n/a	9/13/2021	285	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	33.32	n/a	9/10/2021	123	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	33.32	n/a	9/10/2021	272	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	33.32	n/a	9/10/2021	449	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	33.32	n/a	9/13/2021	145	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	33.32	n/a	9/10/2021	264	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	299.2	n/a	9/10/2021	474	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	299.2	n/a	9/9/2021	433	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	299.2	n/a	9/13/2021	424	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	299.2	n/a	9/9/2021	480	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	299.2	n/a	9/10/2021	678	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	299.2	n/a	9/9/2021	396	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	299.2	n/a	9/10/2021	468	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	299.2	n/a	9/9/2021	455	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	299.2	n/a	9/10/2021	1520	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	299.2	n/a	9/13/2021	508	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	299.2	n/a	9/10/2021	532	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	299.2	n/a	9/10/2021	792	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	299.2	n/a	9/13/2021	306	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	299.2	n/a	9/10/2021	466	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2

# Appendix III Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 1:20 PM

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	9/10/2021	0.24	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	9/9/2021	1.5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	9/9/2021	2	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	9/9/2021	0.62	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-14	0.13	n/a	9/9/2021	0.08	No	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	9/9/2021	1.6	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	9/13/2021	0.78	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	9/9/2021	2.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	9/9/2021	0.51	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	9/10/2021	4.8	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	9/9/2021	5.8	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	9/10/2021	4.5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	9/9/2021	4.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	9/10/2021	5	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	9/13/2021	0.95	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	9/10/2021	0.16	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	9/10/2021	0.55	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	9/10/2021	4.7	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	9/13/2021	0.86	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	9/10/2021	0.54	Yes	41	n/a	n/a	26.83	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	9/10/2021	82.4	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	9/9/2021	66.8	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-12	40.3	n/a	9/9/2021	29.2	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-13	40.3	n/a	9/9/2021	38.2	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-14	40.3	n/a	9/9/2021	11.1	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-15	40.3	n/a	9/9/2021	34.4	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-17	40.3	n/a	9/13/2021	15.8	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	9/9/2021	93.6	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-2	40.3	n/a	9/9/2021	42	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	9/10/2021	69.8	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	9/9/2021	75.3	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	9/10/2021	62.3	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	9/9/2021	76.4	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	9/10/2021	285	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-42	40.3	n/a	9/13/2021	38.9	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-47	40.3	n/a	9/10/2021	24.4	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	9/10/2021	68.7	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	9/10/2021	123	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-8	40.3	n/a	9/13/2021	36	No	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	9/10/2021	47.7	Yes	41	n/a	n/a	4.878	n/a	n/a	0.001025	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-10	5.07	n/a	9/10/2021	8.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-11	5.07	n/a	9/9/2021	13.6	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-12	5.07	n/a	9/9/2021	8.5	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-13	5.07	n/a	9/9/2021	12.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-14	5.07	n/a	9/9/2021	3.3	No	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-15	5.07	n/a	9/9/2021	21.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-17	5.07	n/a	9/13/2021	18.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-19	5.07	n/a	9/9/2021	25.4	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-2	5.07	n/a	9/9/2021	2.1	No	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-20	5.07	n/a	9/10/2021	26.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-21	5.07	n/a	9/9/2021	20.2	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-22	5.07	n/a	9/10/2021	17.3	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-23	5.07	n/a	9/9/2021	12.3	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2
Chloride, Total (mg/L)	DGWC-4	5.07	n/a	9/10/2021	13.9	Yes	43	0.9633	0.2952	0	None	ln(x)	0.0003762	Param Inter 1 of 2



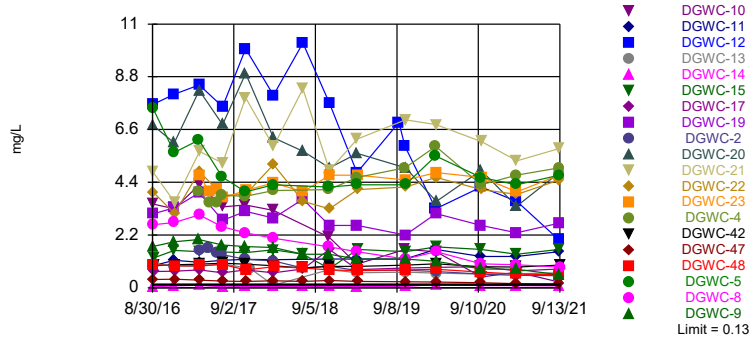
# Appendix III Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 1:20 PM

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-2	33.32	n/a	9/9/2021	110	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-20	33.32	n/a	9/10/2021	399	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	33.32	n/a	9/9/2021	238	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	33.32	n/a	9/10/2021	234	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	33.32	n/a	9/9/2021	217	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	33.32	n/a	9/10/2021	823	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	33.32	n/a	9/13/2021	285	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	33.32	n/a	9/10/2021	123	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	33.32	n/a	9/10/2021	272	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	33.32	n/a	9/10/2021	449	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	33.32	n/a	9/13/2021	145	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	33.32	n/a	9/10/2021	264	Yes	43	2.563	1.435	11.63	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	299.2	n/a	9/10/2021	474	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	299.2	n/a	9/9/2021	433	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	299.2	n/a	9/9/2021	275	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-13	299.2	n/a	9/9/2021	246	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-14	299.2	n/a	9/9/2021	99	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	299.2	n/a	9/9/2021	292	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	299.2	n/a	9/13/2021	424	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	299.2	n/a	9/9/2021	480	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-2	299.2	n/a	9/9/2021	260	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	299.2	n/a	9/10/2021	678	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	299.2	n/a	9/9/2021	396	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	299.2	n/a	9/10/2021	468	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	299.2	n/a	9/9/2021	455	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	299.2	n/a	9/10/2021	1520	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	299.2	n/a	9/13/2021	508	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-47	299.2	n/a	9/10/2021	274	No	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	299.2	n/a	9/10/2021	532	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	299.2	n/a	9/10/2021	792	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	299.2	n/a	9/13/2021	306	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	299.2	n/a	9/10/2021	466	Yes	42	4.572	0.9447	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2

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

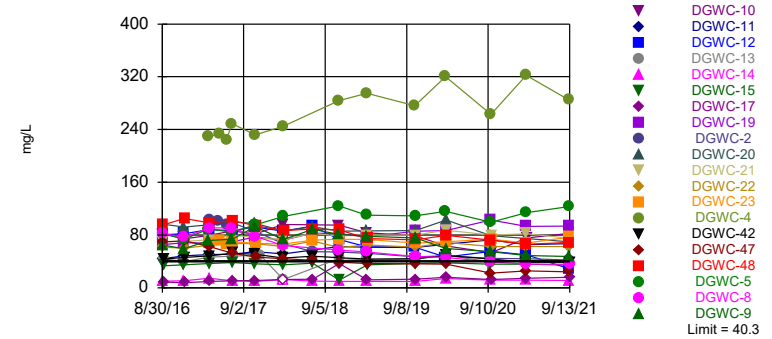


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 41 background values. 26.83% NDs. Annual per-constituent alpha = 0.04021. Individual comparison alpha = 0.001025 (1 of 2). Comparing 20 points to limit.

Constituent: Boron, total Analysis Run 11/8/2021 1:14 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-11, DGWC-19, DGWC-2, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-4, DGWC-48...

Prediction Limit  
Interwell Non-parametric

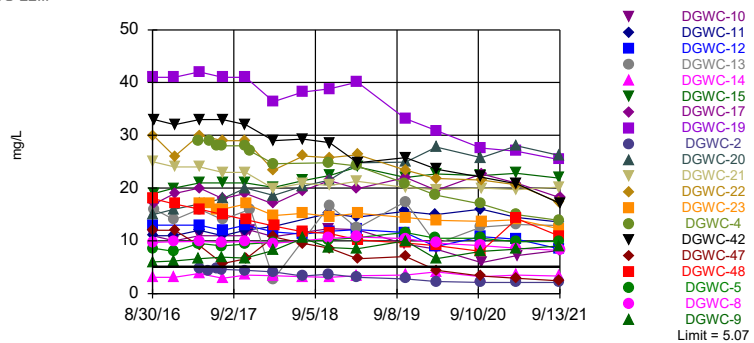


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 41 background values. 4.878% NDs. Annual per-constituent alpha = 0.04021. Individual comparison alpha = 0.001025 (1 of 2). Comparing 20 points to limit.

Constituent: Calcium, total Analysis Run 11/8/2021 1:14 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22...

Prediction Limit  
Interwell Parametric

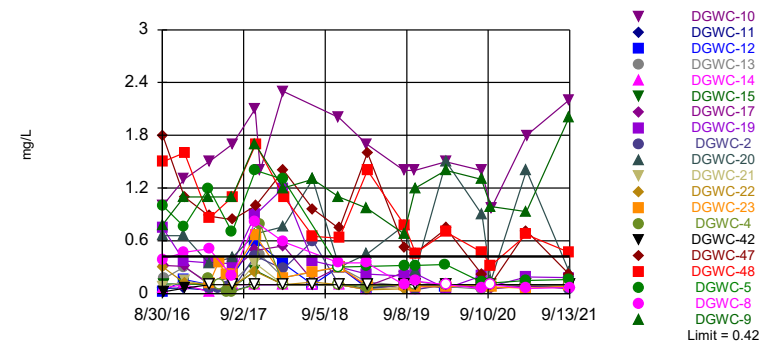


Background Data Summary (based on natural log transformation): Mean=0.9633, Std. Dev.=0.2952, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9421, critical = 0.923. Kappa = 2.236 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003762. Comparing 20 points to limit.

Constituent: Chloride, Total Analysis Run 11/8/2021 1:14 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-48, DGWC-9

Prediction Limit  
Interwell Non-parametric



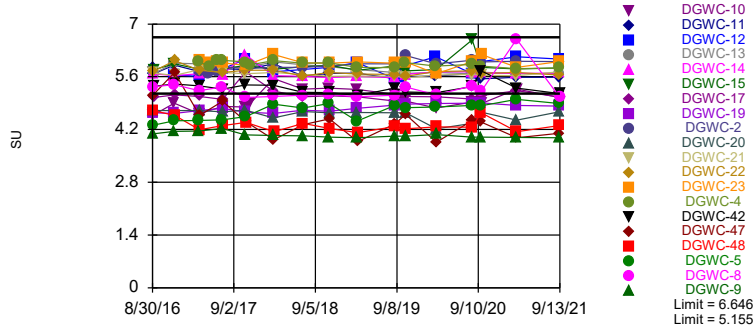
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 48 background values. 52.08% NDs. Annual per-constituent alpha = 0.03068. Individual comparison alpha = 0.0007788 (1 of 2). Comparing 20 points to limit.

Constituent: Fluoride, total Analysis Run 11/8/2021 1:14 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP



Exceeds Limit: DGWC-10, DGWC-17, DGWC-19, DGWC-20, DGWC-42, DGWC-47, DGWC-48, DGWC-5, DGWC-8, DGWC-9

Prediction Limit  
Interwell Parametric

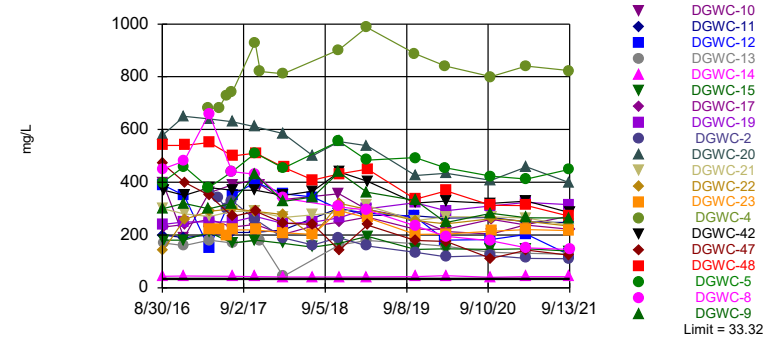


Background Data Summary: Mean=5.9, Std. Dev.=0.3378, n=50. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9448, critical = 0.935. Kappa = 2.208 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0001881. Comparing 20 points to limit.

Constituent: pH, Field Analysis Run 11/8/2021 1:14 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-14, DGWC-15, DGWC-17, DGWC-19, DGWC-2, DGWC-20...

Prediction Limit  
Interwell Parametric

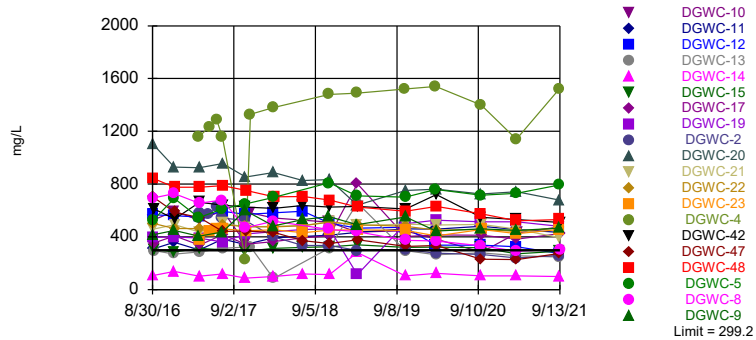


Background Data Summary (based on square root transformation): Mean=2.563, Std. Dev.=1.435, n=43, 11.63% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9331, critical = 0.923. Kappa = 2.236 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003762. Comparing 20 points to limit.

Constituent: Sulfate as SO4 Analysis Run 11/8/2021 1:14 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-11, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-4, DGWC-42...

Prediction Limit  
Interwell Parametric



Background Data Summary (based on cube root transformation): Mean=4.572, Std. Dev.=0.9447, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.933, critical = 0.922. Kappa = 2.24 (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 11/8/2021 1:14 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP







# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-48	DGWC-22	DGWC-20	DGWC-21	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWA-71 (bg)
3/2/2021			3.4		1.4	0.58			
3/3/2021	0.57	3.9		5.3			0.87	0.71	
3/4/2021									
3/12/2021									
9/8/2021									<0.04
9/9/2021				5.8	1.6	0.62			
9/10/2021	0.55	4.5	4.8						
9/13/2021							0.95	0.78	

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III  
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	DGWA-70A (bg)	DGWC-4	DGWA-53 (bg)	DGWC-23	DGWC-2
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	0.0067 (J)	4.01	0.0612		
3/29/2017					
3/30/2017				4.68	1.56
3/31/2017					
5/11/2017			0.0805		1.65
5/12/2017		3.58		4.03	
5/15/2017	0.0073 (J)				
6/15/2017	<0.04	3.58	0.0725	4.11	1.44
6/16/2017					
7/11/2017	<0.04	3.85			1.39
7/12/2017			0.0735	3.74	
7/13/2017					
8/8/2017	<0.04				
10/24/2017	0.0082 (J)	3.82	0.077		1.18
10/25/2017					
10/26/2017				4.07	
11/15/2017					
2/27/2018	0.0062 (J)	4.06			1.12
2/28/2018					
3/1/2018				4.37	
3/2/2018					
3/8/2018			0.13 (J)		
7/11/2018					0.82
7/12/2018			0.076	4	
11/6/2018	<0.04 (J)	4.1			0.9
11/7/2018			0.073		
11/8/2018				4.7	
3/12/2019	0.0073 (J)	4.6			0.72
3/13/2019			0.08		
3/14/2019				4.7	
9/17/2019					
10/15/2019	<0.04	5			
10/16/2019			0.059		
10/17/2019					0.73
10/18/2019				4.5	
3/2/2020	0.0055 (J)	5.9			
3/3/2020					0.68
3/4/2020				4.8	
3/9/2020			0.08 (J)		
9/22/2020	<0.04	4.3	0.056 (J)		
9/23/2020					0.57
9/24/2020				4.6	
3/1/2021	<0.04	4.7			

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWA-70A (bg)	DGWC-4	DGWA-53 (bg)	DGWC-23	DGWC-2
3/2/2021					0.52
3/3/2021				4	
3/4/2021					
3/12/2021			0.064		
9/8/2021					
9/9/2021	<0.04		0.065	4.7	0.51
9/10/2021		5			
9/13/2021					

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-10	DGWC-14	DGWC-5	DGWC-11	DGWC-12	DGWC-47	DGWC-48
8/30/2016	82.7	64.9							
8/31/2016			81.7	9.95	82.6	44.2			
9/1/2016							80.6	69.3	95.1
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	76.8	59.3	74.2	10.4	73.9	48.3			
12/7/2016							82.1		
12/8/2016								71.1	105
3/28/2017		71.6			89.1				
3/29/2017	90.5		79.5	14.4		50.5	88.3		
3/30/2017									98.6
3/31/2017								62.6	
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	91.1	73.7			84.6				
7/12/2017			86.3	10.5		50.8	87		
7/13/2017								52.5	102
8/8/2017									
10/24/2017	78.1	92.5	81.5			55			
10/25/2017				9.67	95.6		92.1		
10/26/2017								46.7	94
11/15/2017									
2/27/2018	64.2	73.1	96.2	<25	108	51.4	85.6		
2/28/2018									
3/1/2018								44.2	
3/2/2018									86.6
3/8/2018									
7/11/2018		88.5		9.9			93.6		
7/12/2018								41.6	89.1
11/6/2018	57	81.1	94.8		124	62.6			
11/7/2018				9.7			73.3	38.6	88
11/8/2018									
3/12/2019	54.3	78.1	83.5		110	61.4	62.1		
3/13/2019				9.7					
3/14/2019								36.6	74.6
10/15/2019			79.1			61.2	61.4		
10/16/2019	47.3			9.4	109				
10/17/2019		75.6						36.2	
10/18/2019									72.7
3/2/2020					116	65.8	46.5		
3/3/2020	46	59.5	63.6	14					
3/4/2020								36	79.7
3/9/2020									
9/22/2020		54.7		11.6	99.2	72.7	55.4		
9/23/2020	39.3							22.3	72.2
9/24/2020			53.1						
3/1/2021									
3/2/2021	35.6	48.8		11.4	114	65.3			





# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-20	DGWC-22	DGWC-21	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	65.6								
9/2/2016		96.3	61.6	70.2					
9/6/2016					44	33.6			
9/7/2016							8.61	43.6	
12/6/2016									
12/7/2016	68.3	91.9			39.8	34.7			
12/8/2016			60.1	70.1			7.92	45.8	
3/28/2017									229
3/29/2017	68	95.7	64.7						
3/30/2017				72.5	46.3	36.9	9.56		
3/31/2017								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	70	100		80.4	47.8	38.4	10.4		
7/13/2017			67.2					52.3	
8/8/2017									
10/24/2017									232
10/25/2017	77	97.3	66.8	75.6		36.2	10.9	50.9	
10/26/2017									
11/15/2017					49.3				
2/27/2018									245
2/28/2018	72	86.3	62.3	73.2	<25	35	<25	45.1	
3/1/2018									
3/2/2018									
3/8/2018									
7/11/2018	82.7	92.4		82.3		37.5	13 (J)	47.8	
7/12/2018			71						
11/6/2018									284
11/7/2018	81.7	85.9	60.9	78.5	44.8	11.4	37	45.5	
11/8/2018									
3/12/2019									295
3/13/2019	76.9	86.4		79.9	42.1		11.9 (J)		
3/14/2019			64.8			34.7		43.5	
10/15/2019									276
10/16/2019	85.7				43.8				
10/17/2019		86.9		79.8		37		44.1	
10/18/2019			61.7				12.9		
3/2/2020									320
3/3/2020	86.8		68.7	87.4	49.3	37.8			
3/4/2020		103					15.8	48.8	
3/9/2020									
9/22/2020	103	79.2						43.8	263
9/23/2020					39	35.6			
9/24/2020			62.6	80			12.7		
3/1/2021									322
3/2/2021	93.2	74.7			40.5	36			

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-19	DGWC-20	DGWC-22	DGWC-21	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWC-4
3/3/2021			62.3	82.1			14.3	38.8	
3/4/2021									
3/12/2021									
9/8/2021									
9/9/2021	93.6			75.3	38.2	34.4			
9/10/2021		69.8	62.3						285
9/13/2021							15.8	38.9	

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III  
 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 11/8/2021 1:16 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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					

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-14	DGWC-11	DGWC-5	DGWC-10	DGWC-48	DGWC-12	DGWC-47
8/30/2016	9.7	6							
8/31/2016			3.1	11	8.6	11			
9/1/2016							18	13	12
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	9.8	6.2	3.1	11	8	10			
12/7/2016								20 (O)	
12/8/2016							17		12
3/28/2017		6.6			9.5				
3/29/2017	9.9		3.8	12		11		13	
3/30/2017							16		
3/31/2017									9.1
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	9.7	6.9			9				
7/12/2017			2.9	11		11		12	
7/13/2017							15		5.7
8/8/2017									
10/24/2017	9.9	6.7		12		11			
10/25/2017			3.5		9.4			13	
10/26/2017							14		6.6
11/15/2017						12			
2/27/2018	9.5	8.2	3.4	12.7	9.7	10.8		11.7	
2/28/2018									
3/1/2018									10.7
3/2/2018							12.8		
3/8/2018									
7/11/2018		10.5	3.2					11.3	
7/12/2018							11.7		9.5
11/6/2018	10.5	8.7		15.2	10.2	12.3			
11/7/2018			3.1				11.4	11.8	8.6
11/8/2018									
3/12/2019	10.7	8.5		14.5	10.6	12.1		12.1	
3/13/2019			3.4						
3/14/2019							10.2		6.6
10/15/2019				15.6		9.4		11.6	
10/16/2019	10.4		3.5		11.6				
10/17/2019		10							7
10/18/2019							9.6		
3/2/2020				15	10.5			8.9	
3/3/2020	9.6	6.6	4.1			8.4			
3/4/2020							9.1		4.4
3/9/2020									
9/22/2020		8	3.2	16	10.5			10.8	
9/23/2020	9.1						8		3.3
9/24/2020						5.9			
3/1/2021									
3/2/2021	8.6	8.4	3.5	14.4	9.8				



# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-21	DGWC-22	DGWC-20	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWA-53 (bg)
8/30/2016									
8/31/2016									
9/1/2016	41								
9/2/2016		25	30	15					
9/6/2016					16	19			
9/7/2016							17	33	
12/6/2016									
12/7/2016	41			16	14	20			
12/8/2016		24	26				19	32	
3/28/2017									3.7
3/29/2017	42		30	17					
3/30/2017		24			16	21	20		
3/31/2017								33	
5/11/2017									2.3
5/12/2017									
5/15/2017									
6/15/2017									2.6
6/16/2017									
7/11/2017									
7/12/2017	41	23		18	14	21	18		2.3
7/13/2017			29					33	
8/8/2017									
10/24/2017									2.7
10/25/2017	41	23	29	20		21	19	32	
10/26/2017									
11/15/2017					16				2.2
2/27/2018									
2/28/2018	36.4	19.9	23.4	18.6	2.7	20.1	17	29	
3/1/2018									
3/2/2018									
3/8/2018									2.4
7/11/2018	38.2	20.9		20.4		21.4	19.5	29.3	
7/12/2018			26.1						2.2
11/6/2018									
11/7/2018	38.8	20.5	25.8	21.5	16.7	22.4	21.4	28.6	2.3
11/8/2018									
3/12/2019									
3/13/2019	40.1	21.3		24.8	12.4		19.9		3.6
3/14/2019			26.3			24		24.8	
10/15/2019									
10/16/2019	33.2				17.4				2
10/17/2019		20.1		24.9		22		25.8	
10/18/2019			23.4				22		
3/2/2020									
3/3/2020	30.9	19.7	21.8		9.4	22.7			
3/4/2020				27.8			19.6	23.6	
3/9/2020									1.8
9/22/2020	27.6			25.8				22.1	1.6
9/23/2020					12.6	22.4			
9/24/2020		20	21.5				22.7		
3/1/2021									
3/2/2021	27			28	13.1	22.8			



# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-19	DGWC-21	DGWC-22	DGWC-20	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWA-53 (bg)
3/3/2021		19.7	20.6				20.9	20.8	
3/4/2021									
3/12/2021									2
9/8/2021									
9/9/2021	25.4	20.2			12.9	21.9			1.8
9/10/2021			17.3	26.2					
9/13/2021							18.2	17.1	

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-23	DGWC-2
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	29	3.6	3.8		
3/29/2017					
3/30/2017				17	4.8
3/31/2017					
5/11/2017					4.4
5/12/2017	29	3.8		17	
5/15/2017			2.2		
6/15/2017	28		2	16	4.8
6/16/2017		3.4			
7/11/2017	28	3.1	2.1		4.6
7/12/2017				16	
7/13/2017					
8/8/2017			2.2		
10/24/2017	28	3.2	2.4		4.4
10/25/2017					
10/26/2017				17	
11/15/2017	27	3.1			
2/27/2018	24.6	3.2	2.5		4.1
2/28/2018					
3/1/2018				14.8	
3/2/2018					
3/8/2018					
7/11/2018					3.3
7/12/2018				15.2	
11/6/2018	24.8	2.6	2.3		3.7
11/7/2018					
11/8/2018				14.6	
3/12/2019	24.2	3.3	2.5		3.1
3/13/2019					
3/14/2019				15.2	
10/15/2019	20.9	3.3	2.2		
10/16/2019					
10/17/2019					2.8
10/18/2019				14.4	
3/2/2020	18.7	3	1.9		
3/3/2020					2.3
3/4/2020				13.9	
3/9/2020					
9/22/2020	17	5.2	1.9		
9/23/2020					2.1
9/24/2020				13.7	
3/1/2021	15	3.9	1.9		
3/2/2021					2.1

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-4	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-23	DGWC-2
3/3/2021				14	
3/4/2021					
3/12/2021					
9/8/2021		5.9			
9/9/2021			1.9	12.3	2.1
9/10/2021	13.9				
9/13/2021					

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-5	DGWC-10	DGWC-11	DGWC-14	DGWC-19	DGWC-12	DGWC-47
8/30/2016	0.39	0.78							
8/31/2016			1	1	0.06 (J)	0.06 (J)			
9/1/2016							0.75	0.02 (J)	1.8
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	0.47	1.1	0.76	1.3	0.06 (J)	0.1 (J)			
12/7/2016							0.37	0.16 (J)	
12/8/2016									1.1
3/28/2017		1.1	1.2						
3/29/2017	0.51			1.5	0.04 (J)	0.02 (J)	0.35	0.1 (J)	
3/30/2017									
3/31/2017									0.88
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	0.2 (J)	1.1	0.7						
7/12/2017				1.7	0.03 (J)	<0.1	0.34	0.2 (J)	
7/13/2017									0.84
8/8/2017									
10/24/2017	0.82	1.7		2.1	<0.1				
10/25/2017			1.4			<0.1	0.9	0.6	
10/26/2017									1
11/15/2017				1.4					
2/27/2018	0.59	1.2	1.3	2.3	<0.1	<0.1		0.34	
2/28/2018							1.2		
3/1/2018									1.4
3/2/2018									
3/8/2018									
7/11/2018		1.3				<0.1	0.37	<0.1	
7/12/2018									0.96
11/6/2018	0.35	1.1	<0.3 (J)	2	<0.1				
11/7/2018						<0.1	<0.3 (J)	<0.3 (J)	0.74
11/8/2018									
3/12/2019	0.35	0.97	0.31	1.7	0.052 (J)			0.065 (J)	
3/13/2019						0.042 (J)	0.22 (J)		
3/14/2019									1.6
8/27/2019		0.68	0.32	1.4	<0.1	<0.1		<0.1	
8/28/2019	0.098 (J)						0.2		
8/29/2019									0.52
10/15/2019				1.4	<0.1			<0.1	
10/16/2019	0.14 (J)		0.32			0.052 (J)	0.23 (J)		
10/17/2019		1.2							0.46
10/18/2019									
3/2/2020			0.33		0.064 (J)			0.071 (J)	
3/3/2020	<0.1	1.4		1.5		<0.1	0.056 (J)		
3/4/2020									0.74
3/9/2020									
8/11/2020		1.3		1.4	<0.1	<0.1	0.2	<0.1	
8/12/2020	0.056 (J)		0.13						0.22



# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-20	DGWC-21	DGWC-22	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	1.5								
9/2/2016		0.66	0.07 (J)	0.3					
9/6/2016					0.17 (J)	0.11 (J)			
9/7/2016							0.02 (J)	0.32	
12/6/2016									
12/7/2016		0.66			0.3	0.11 (J)			
12/8/2016	1.6		0.14 (J)	0.12 (J)			0.06 (J)	0.31	
3/28/2017									0.17 (J)
3/29/2017		0.34		0.11 (J)					
3/30/2017	0.86		<0.1		0.12 (J)	<0.1		0.1 (J)	
3/31/2017							<0.1		
5/11/2017									
5/12/2017									<0.1
5/15/2017									
6/15/2017									0.02 (J)
6/16/2017									
7/11/2017									0.02 (J)
7/12/2017		0.41	0.04 (J)		0.13 (J)	0.07 (J)		0.27 (J)	
7/13/2017	1.1			0.09 (J)			<0.1		
8/8/2017									
10/24/2017									<0.1
10/25/2017		0.68	0.34	0.25 (J)		0.26 (J)	<0.1	0.49	
10/26/2017	1.7								
11/15/2017					0.44				0.79
2/27/2018									<0.1
2/28/2018		0.76	<0.1	<0.1	0.18	<0.1	<0.1	0.54	
3/1/2018									
3/2/2018	1.1								
3/8/2018									
7/11/2018		1.3	<0.1			<0.1	<0.1	0.15 (J)	
7/12/2018	0.65			0.13 (J)					
11/6/2018									<0.1
11/7/2018	0.63	<0.3 (J)	<0.1	<0.1	<0.3 (J)	<0.1	<0.1	<0.3 (J)	
11/8/2018									
3/12/2019									0.082 (J)
3/13/2019		0.45	0.043 (J)		0.13 (J)			0.084 (J)	
3/14/2019	1.4			0.042 (J)		0.057 (J)	<0.1		
8/27/2019								0.24 (J)	<0.1
8/28/2019					0.091 (J)	<0.1	<0.1		
8/29/2019	0.78	0.78	0.079 (J)	0.054 (J)					
10/15/2019									<0.1
10/16/2019					0.14 (J)				
10/17/2019		0.26 (J)	<0.1			0.079 (J)	<0.1		
10/18/2019	0.46			<0.1				0.086 (J)	
3/2/2020									<0.1
3/3/2020			<0.1	<0.1	0.078 (J)	<0.1			
3/4/2020	0.7	1.5					<0.1	<0.1	
3/9/2020									
8/11/2020									
8/12/2020					0.051 (J)				<0.1

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-20	DGWC-21	DGWC-22	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWC-4
8/13/2020	0.47	0.9				<0.1	<0.1		
8/14/2020			<0.1	<0.1				0.069 (J)	
9/22/2020		0.15					<0.1		<0.1
9/23/2020	0.32				0.058 (J)	<0.1			
9/24/2020			<0.1	<0.1				0.056 (J)	
3/1/2021									<0.1
3/2/2021		1.4			0.084 (J)	<0.1			
3/3/2021	0.67		<0.1	<0.1			<0.1	0.085 (J)	
3/4/2021									
3/12/2021									
9/8/2021									
9/9/2021			<0.1		0.083 (J)	<0.1			
9/10/2021	0.47	0.25		<0.1					<0.1
9/13/2021							<0.1	0.063 (J)	

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-71 (bg)	DGWC-23	DGWC-2	DGWA-70A (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	0.12 (J)	0.06 (J)			1.2 (O)
3/29/2017					
3/30/2017			0.12 (J)	0.06 (J)	
3/31/2017					
5/11/2017	0.07 (J)			0.06 (J)	
5/12/2017		<0.1	0.36		
5/15/2017					0.005 (J)
6/15/2017	0.19 (J)		0.21 (J)	0.07 (J)	0.02 (J)
6/16/2017		0.008 (J)			
7/11/2017		0.007 (J)		0.04 (J)	0.06 (J)
7/12/2017	0.1 (J)		0.22 (J)		
7/13/2017					
8/8/2017					0.04 (J)
10/24/2017	0.06 (J)	<0.1		0.43	<0.1
10/25/2017					
10/26/2017			0.66		
11/15/2017	0.05 (J)	<0.1			
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		<0.1		0.052 (J)	0.039 (J)
3/13/2019	0.13 (J)				
3/14/2019			0.092 (J)		
8/27/2019		<0.1		<0.1	<0.1
8/28/2019	0.42				
8/29/2019			0.095 (J)		
10/15/2019		<0.1			<0.1
10/16/2019	0.11 (J)				
10/17/2019				0.042 (J)	
10/18/2019			0.079 (J)		
3/2/2020		<0.1			<0.1
3/3/2020				<0.1	
3/4/2020			0.075 (J)		
3/9/2020	0.1 (J)				
8/11/2020		<0.1		<0.1	<0.1
8/12/2020					



# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWA-53 (bg)	DGWA-71 (bg)	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		<0.1			
9/9/2021	0.099 (J)		0.084 (J)	0.053 (J)	<0.1
9/10/2021					
9/13/2021					







# Prediction Limit

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-22	DGWC-21	DGWC-15	DGWC-13	DGWC-17	DGWC-42	DGWC-12	DGWC-4
8/11/2020								5.69	
8/12/2020					5.68				5.93
8/13/2020	4.36			6.58			5.34		
8/14/2020		5.76	5.66			5.01			
9/22/2020	4.66						5.76	6	5.88
9/23/2020				5.85	5.72				
9/24/2020		5.69	5.64			5.1			
3/1/2021									5.82
3/2/2021	4.45			5.81	5.68				
3/3/2021		5.71	5.63			5.23	5.3	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						5.06	5.15		

# Prediction Limit

Constituent: pH, Field (SU) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-53 (bg)	DGWA-71 (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	6.29	5.94			
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	5.51	5.86		5.82	5.71
10/25/2017					
10/26/2017			5.9		
11/15/2017	6.5	5.77			
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 11/8/2021 1:16 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWA-53 (bg)	DGWA-71 (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	6.43	6.06			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					

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-10	DGWC-11	DGWC-5	DGWC-14	DGWC-47	DGWC-12	DGWC-19
8/30/2016	300	450							
8/31/2016			400	200	400	44			
9/1/2016							470	390	240
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	320	480	190	190	460	45			
12/7/2016								350	250
12/8/2016							400		
3/28/2017	300				380				
3/29/2017		660	360	200		81 (O)		150	250
3/30/2017									
3/31/2017							350		
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	320	440			440				
7/12/2017			390	210		44		350	250
7/13/2017							270		
8/8/2017									
10/24/2017	430	430	410	210					
10/25/2017					510	42		400	270
10/26/2017							290		
11/15/2017			390						
2/27/2018	327	340	335	220	453	41		356	
2/28/2018									244
3/1/2018							245		
3/2/2018									
3/8/2018									
7/11/2018	344					40.6		344	249
7/12/2018							240		
11/6/2018	438	307	356	302	556				
11/7/2018						41.3	143	298	266
11/8/2018									
3/12/2019	362	295	297	275	484			284	
3/13/2019						41.2			299
3/14/2019							238		
10/15/2019			263	273				270	
10/16/2019		235			493	42.1			323
10/17/2019	331						179		
10/18/2019									
3/2/2020				264	455			181	
3/3/2020	247	195	213			45.5			292
3/4/2020							176		
3/9/2020									
9/22/2020	282			267	423	40.2		183	310
9/23/2020		178					111		
9/24/2020			204						
3/1/2021									
3/2/2021	266	152		250	412	42.6			324



# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-9	DGWC-8	DGWC-10	DGWC-11	DGWC-5	DGWC-14	DGWC-47	DGWC-12	DGWC-19
3/3/2021							143	203	
3/4/2021			240						
3/12/2021									
9/8/2021									
9/9/2021				247		42.3		126	315
9/10/2021	264		271		449		123		
9/13/2021		145							

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-22	DGWC-21	DGWC-20	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	540								
9/2/2016		140	300	580					
9/6/2016					170	180			
9/7/2016							370	230	
12/6/2016									
12/7/2016				650	160	180			
12/8/2016	540	260	280				350	240	
3/28/2017									680
3/29/2017		290		640					
3/30/2017	550		270		180	210		260	
3/31/2017							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			290	630	170	170		230	
7/13/2017	500	300					370		
8/8/2017									
10/24/2017									930
10/25/2017		290	290	610		180	370	240	
10/26/2017	510								
11/15/2017					180				820
2/27/2018									811
2/28/2018		278	267	584	43.5	168	350	203	
3/1/2018									
3/2/2018	456								
3/8/2018									
7/11/2018			277	501		154	366	234	
7/12/2018	409	197							
11/6/2018									902
11/7/2018	432	320	286	554	162	168	439	248	
11/8/2018									
3/12/2019									987
3/13/2019			312	539	179			268	
3/14/2019	450	297				195	404		
10/15/2019									888
10/16/2019					167				
10/17/2019			255	426		146	321		
10/18/2019	336	254						222	
3/2/2020									840
3/3/2020		242	269		157	148			
3/4/2020	368			434			329	222	
3/9/2020									
9/22/2020				408			320		800
9/23/2020	313				134	146			
9/24/2020		262	269					259	
3/1/2021									840
3/2/2021				458	131	148			

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-48	DGWC-22	DGWC-21	DGWC-20	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWC-4
3/3/2021	312	252	264				329	237	
3/4/2021									
3/12/2021									
9/8/2021									
9/9/2021			238		127	139			
9/10/2021	272	234		399					823
9/13/2021							285	222	

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-70A (bg)	DGWA-53 (bg)	DGWC-2	DGWC-23
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	17	2.7	49		
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		0.86 (J)	16	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	9.6	1.4	15	260	
10/25/2017					
10/26/2017					220
11/15/2017	7.8		3.8		
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	6.5	<1	13.5		
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 11/8/2021 1:16 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWA-71 (bg)	DGWA-70A (bg)	DGWA-53 (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		<1	11.9	110	217
9/10/2021					
9/13/2021					

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III

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 11/8/2021 1:16 PM View: AP 234 Appendix III  
 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 11/8/2021 1:16 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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	

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 11/8/2021 1:16 PM View: AP 234 Appendix III  
 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 11/8/2021 1:16 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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					

FIGURE E.

# Appendix III Trend Tests - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 2/25/2022, 7:30 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWC-10	-0.7511	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-11	0.06556	62	43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-12	-1.24	-63	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-13	-0.08547	-49	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-2	-0.263	-85	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-20	-0.7252	-64	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-4	0.3101	54	43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-47	-0.0335	-76	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-48	-0.07754	-68	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-8	-0.4216	-69	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-9	-0.2815	-80	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-53 (bg)	-4.533	-57	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-11	4.66	64	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-19	6.089	75	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-2	-15.03	-87	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-4	21.16	50	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-48	-7.485	-73	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-5	8.05	50	43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-53 (bg)	-0.1941	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-11	1.079	44	43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-12	-0.7273	-55	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-15	0.5787	57	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-19	-3.305	-69	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-20	2.833	83	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-21	-1.053	-62	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-22	-2.241	-68	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-23	-0.873	-72	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-4	-3.438	-85	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-42	-3.134	-79	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-48	-2.232	-67	-48	Yes	14	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-48	-0.1917	-68	-58	Yes	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.05374	74	58	Yes	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.112	74	58	Yes	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-9	-0.02122	-75	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-70A (bg)	-0.2582	-50	-48	Yes	14	35.71	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-71 (bg)	-1.564	-72	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-12	-47.07	-54	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-15	-8.561	-57	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-19	17.24	60	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-2	-59.83	-83	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-20	-51.63	-69	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-47	-58.21	-78	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-48	-56.15	-76	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-8	-72.96	-72	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-26.59	-62	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	32.36	53	43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	29.77	52	48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-58.61	-69	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-61.71	-79	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	38.2	54	43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	-87.61	-70	-43	Yes	13	0	n/a	n/a	0.01	NP

# Appendix III Trend Tests - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 2/25/2022, 7:30 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWA-53 (bg)	-0.002041	-16	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-70A (bg)	0	14	48	No	14	57.14	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-71 (bg)	0	-2	-43	No	13	23.08	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-10</b>	<b>-0.7511</b>	<b>-62</b>	<b>-43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-11</b>	<b>0.06556</b>	<b>62</b>	<b>43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-12</b>	<b>-1.24</b>	<b>-63</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-13</b>	<b>-0.08547</b>	<b>-49</b>	<b>-43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-15	0.01926	22	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-17	0.03666	39	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-19	-0.1898	-40	-48	No	14	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-2</b>	<b>-0.263</b>	<b>-85</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-20</b>	<b>-0.7252</b>	<b>-64</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-21	0.2662	21	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-22	0.1044	17	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-23	0.1025	25	48	No	14	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-4</b>	<b>0.3101</b>	<b>54</b>	<b>43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-42	-0.01135	-22	-48	No	14	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-47</b>	<b>-0.0335</b>	<b>-76</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-48</b>	<b>-0.07754</b>	<b>-68</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-5	-0.1613	-13	-43	No	13	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-8</b>	<b>-0.4216</b>	<b>-69</b>	<b>-43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-9</b>	<b>-0.2815</b>	<b>-80</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-4.533</b>	<b>-57</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWA-70A (bg)	-0.1515	-29	-48	No	14	7.143	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-71 (bg)	-0.6883	-36	-43	No	13	7.692	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-10	-1.262	-14	-43	No	13	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>DGWC-11</b>	<b>4.66</b>	<b>64</b>	<b>43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-19</b>	<b>6.089</b>	<b>75</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-2</b>	<b>-15.03</b>	<b>-87</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWC-20	-4.731	-43	-48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-21	2.444	41	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-22	0.05105	6	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-23	1.103	32	48	No	14	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>DGWC-4</b>	<b>21.16</b>	<b>50</b>	<b>43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-48</b>	<b>-7.485</b>	<b>-73</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-5</b>	<b>8.05</b>	<b>50</b>	<b>43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWC-9	-5.362	-25	-48	No	14	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-0.1941</b>	<b>-59</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWA-70A (bg)	-0.08417	-33	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-71 (bg)	0.07636	12	48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-10	-0.6293	-33	-48	No	14	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWC-11</b>	<b>1.079</b>	<b>44</b>	<b>43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-12</b>	<b>-0.7273</b>	<b>-55</b>	<b>-43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWC-13	-0.3754	-14	-43	No	13	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWC-15</b>	<b>0.5787</b>	<b>57</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWC-17	0.6518	35	48	No	14	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWC-19</b>	<b>-3.305</b>	<b>-69</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-20</b>	<b>2.833</b>	<b>83</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-21</b>	<b>-1.053</b>	<b>-62</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-22</b>	<b>-2.241</b>	<b>-68</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-23</b>	<b>-0.873</b>	<b>-72</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-4</b>	<b>-3.438</b>	<b>-85</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-42</b>	<b>-3.134</b>	<b>-79</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-48</b>	<b>-2.232</b>	<b>-67</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWC-5	0.4296	43	43	No	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-8	-0.1857	-24	-43	No	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-9	0.5877	44	48	No	14	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-53 (bg)	-0.001259	-9	-63	No	17	11.76	n/a	n/a	0.01	NP

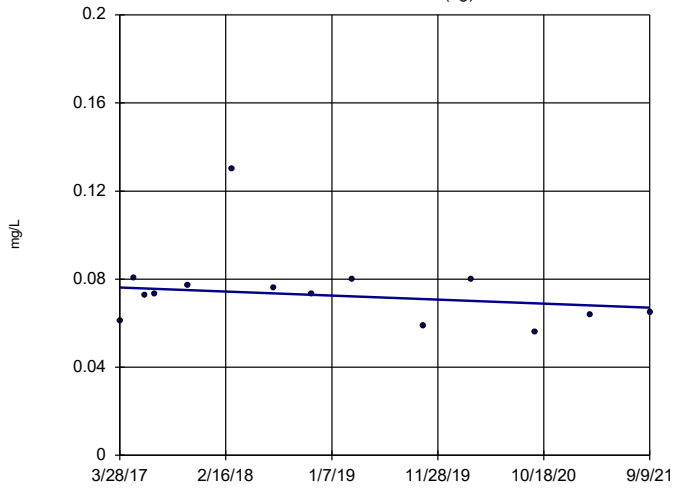
# Appendix III Trend Tests - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 2/25/2022, 7:30 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Fluoride, total (mg/L)	DGWA-70A (bg)	0.01092	48	53	No	15	66.67	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-71 (bg)	0	32	58	No	16	81.25	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-10	0.03121	14	58	No	16	0	n/a	n/a	0.01	NP
<b>Fluoride, total (mg/L)</b>	<b>DGWC-48</b>	<b>-0.1917</b>	<b>-68</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	DGWC-9	0.03993	16	58	No	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-53 (bg)	0.02897	13	63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-70A (bg)	-0.02535	-22	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-71 (bg)	0.03005	28	63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-10	0.061	32	63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-17	-0.003279	-9	-63	No	17	0	n/a	n/a	0.01	NP
<b>pH, Field (SU)</b>	<b>DGWC-19</b>	<b>0.05374</b>	<b>74</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH, Field (SU)	DGWC-20	-0.02007	-42	-53	No	15	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-42	-0.02543	-32	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-47	-0.1735	-52	-58	No	16	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-48	-0.02287	-24	-58	No	16	0	n/a	n/a	0.01	NP
<b>pH, Field (SU)</b>	<b>DGWC-5</b>	<b>0.112</b>	<b>74</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH, Field (SU)	DGWC-8	0	-3	-58	No	16	0	n/a	n/a	0.01	NP
<b>pH, Field (SU)</b>	<b>DGWC-9</b>	<b>-0.02122</b>	<b>-75</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWA-53 (bg)	-1.708	-31	-53	No	15	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWA-70A (bg)</b>	<b>-0.2582</b>	<b>-50</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>35.71</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWA-71 (bg)</b>	<b>-1.564</b>	<b>-72</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-10	-35.48	-42	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-11	15.01	34	43	No	13	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-12</b>	<b>-47.07</b>	<b>-54</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-13	-7.462	-36	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-14	-0.3613	-11	-43	No	13	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-15</b>	<b>-8.561</b>	<b>-57</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-17	-0.2865	-6	-48	No	14	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-19</b>	<b>17.24</b>	<b>60</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-2</b>	<b>-59.83</b>	<b>-83</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-20</b>	<b>-51.63</b>	<b>-69</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-21	-7.197	-43	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-22	-5.563	-14	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-23	0	3	48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-4	34.38	33	48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-42	-12.99	-40	-48	No	14	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-47</b>	<b>-58.21</b>	<b>-78</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-48</b>	<b>-56.15</b>	<b>-76</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-5	1.576	2	43	No	13	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-8</b>	<b>-72.96</b>	<b>-72</b>	<b>-43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-9	-8.648	-15	-48	No	14	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-26.59</b>	<b>-62</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWA-70A (bg)	-1.029	-7	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-71 (bg)	-5.605	-39	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	-38.88	-42	-48	No	14	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-11</b>	<b>32.36</b>	<b>53</b>	<b>43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	11.01	34	48	No	14	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-19</b>	<b>29.77</b>	<b>52</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-20</b>	<b>-58.61</b>	<b>-69</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	1.49	4	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	-5.683	-27	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	0.7783	3	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	86.33	45	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	-15.87	-24	-48	No	14	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-48</b>	<b>-61.71</b>	<b>-79</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-5</b>	<b>38.2</b>	<b>54</b>	<b>43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-8</b>	<b>-87.61</b>	<b>-70</b>	<b>-43</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	7.766	16	48	No	14	0	n/a	n/a	0.01	NP

### Sen's Slope Estimator

DGWA-53 (bg)



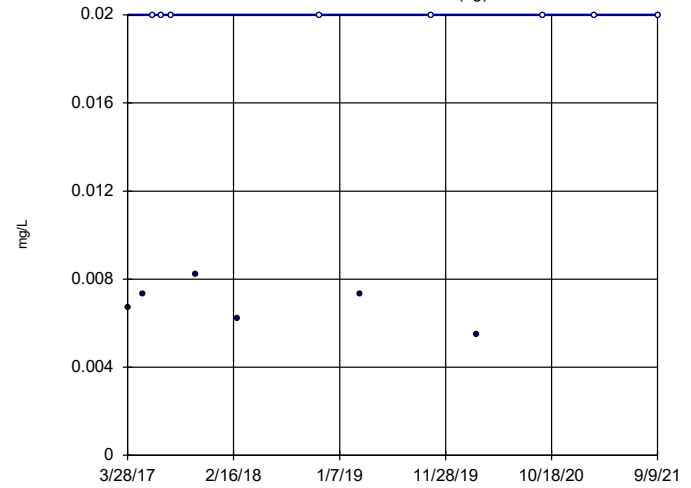
n = 14  
 Slope = -0.002041  
 units per year.  
 Mann-Kendall  
 statistic = -16  
 critical = -48  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

### Sen's Slope Estimator

DGWA-70A (bg)

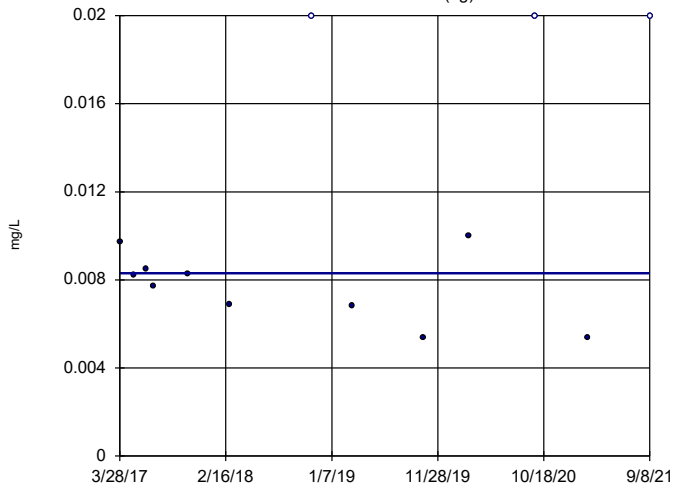


n = 14  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 14  
 critical = 48  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-71 (bg)

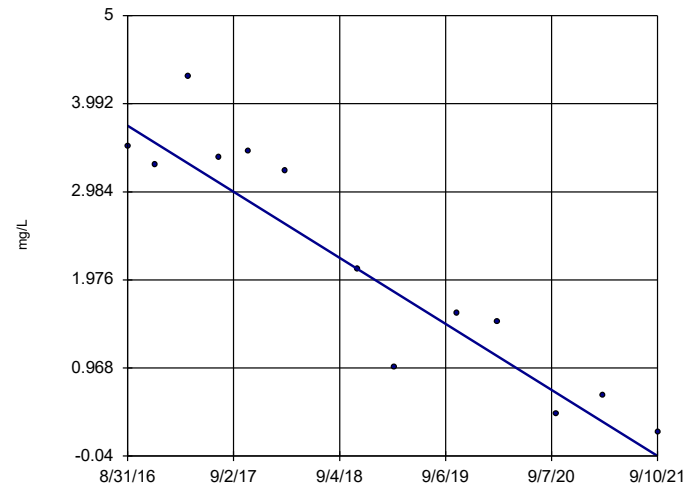


n = 13  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -2  
 critical = -43  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-10

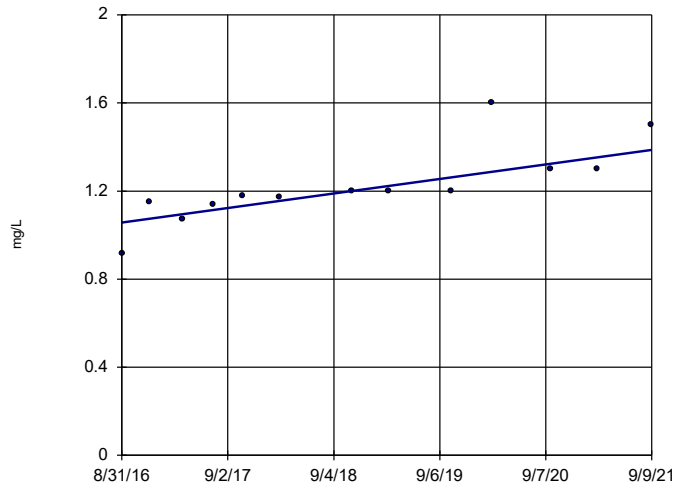


n = 13  
 Slope = -0.7511  
 units per year.  
 Mann-Kendall  
 statistic = -62  
 critical = -43  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

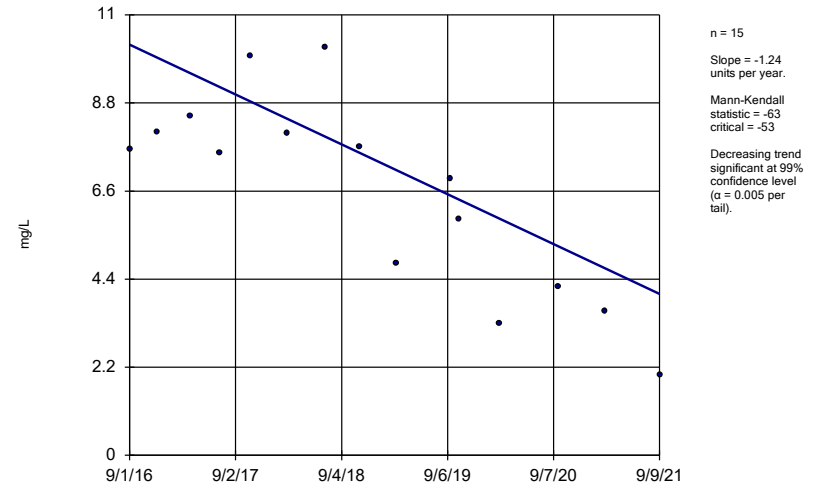


### Sen's Slope Estimator DGWC-11



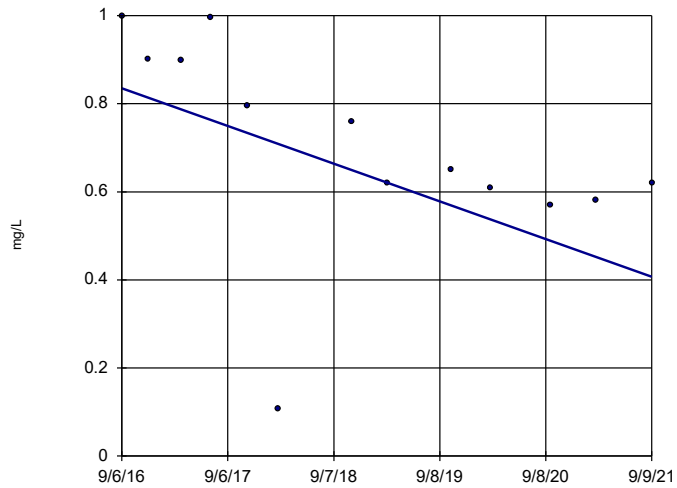
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-12



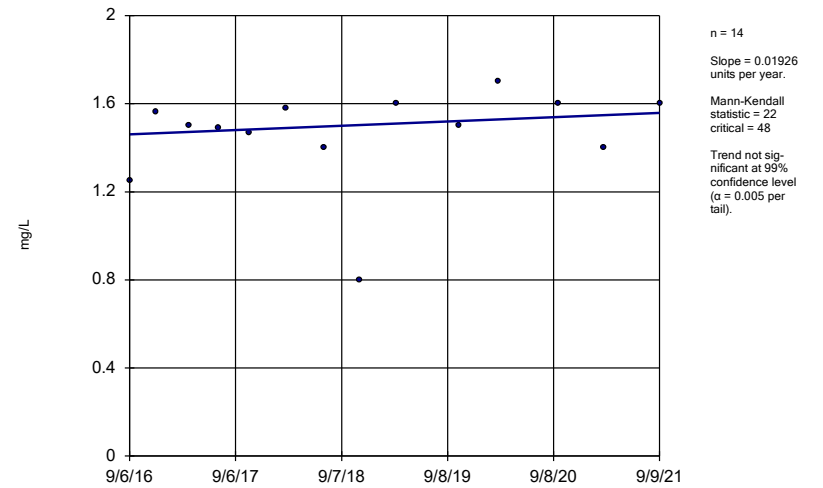
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-13



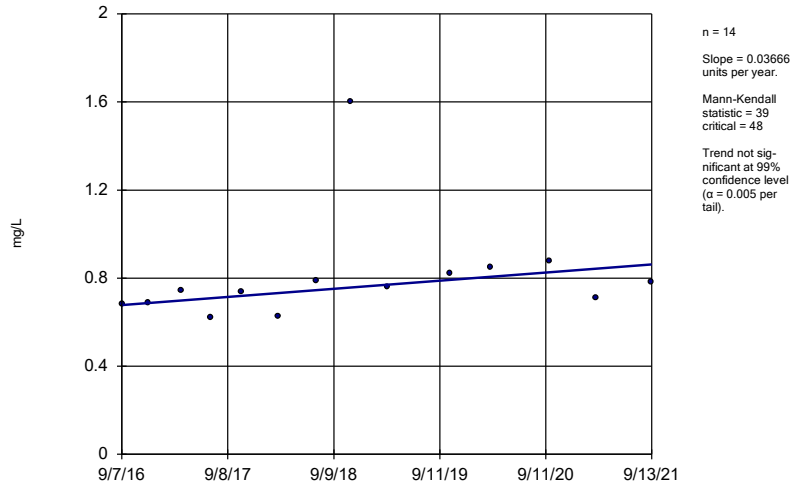
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-15



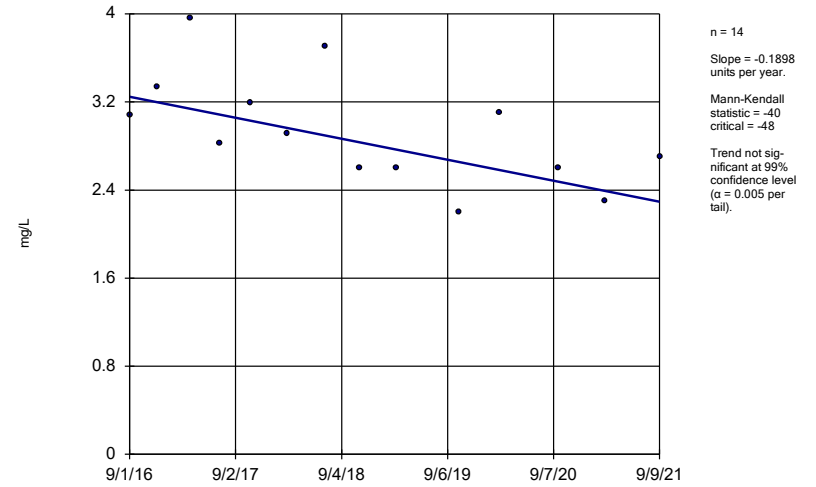
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-17



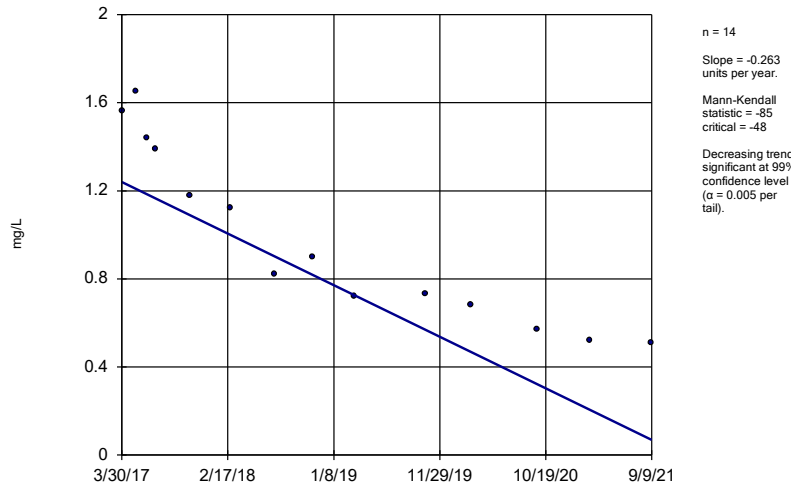
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-19



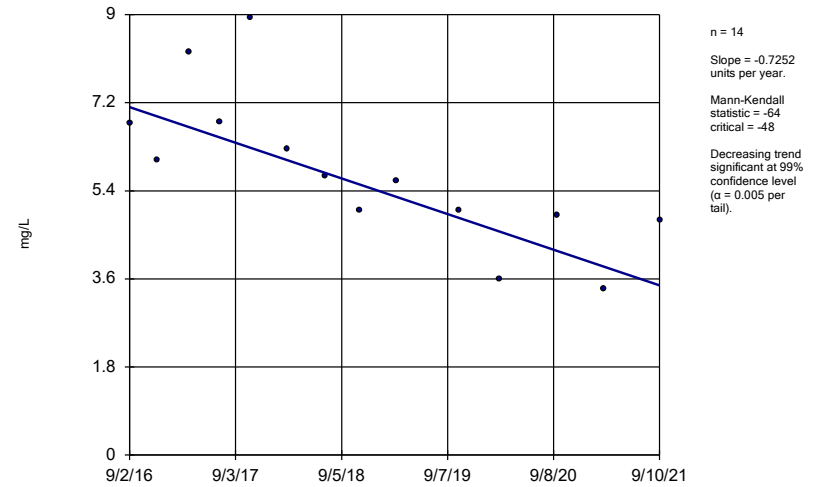
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-2



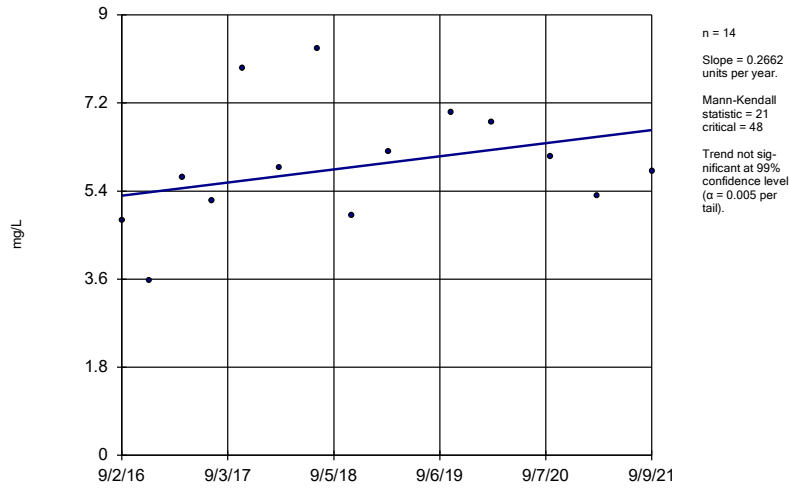
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-20



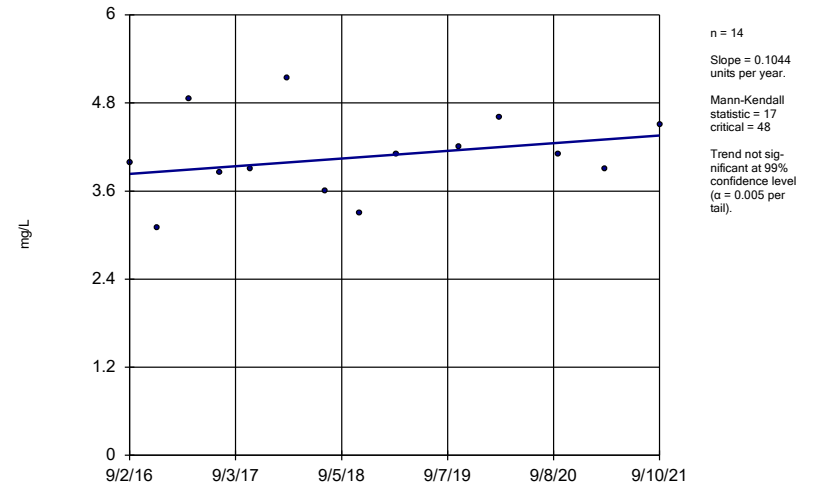
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-21



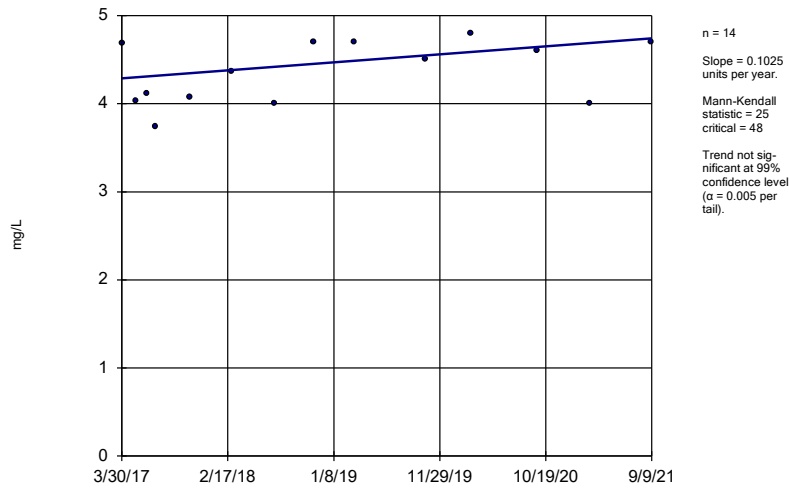
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-22



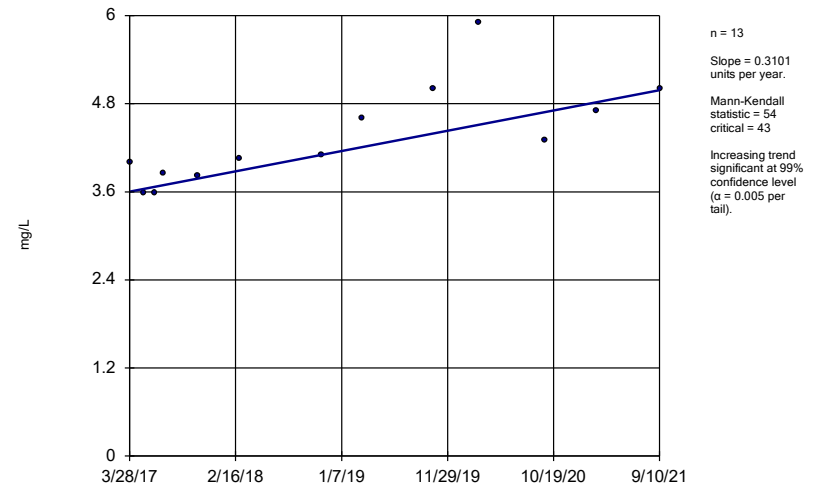
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-23



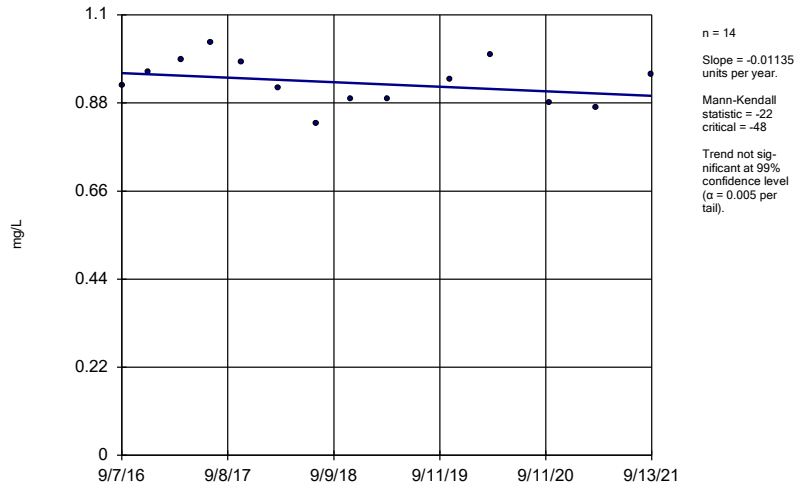
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-4



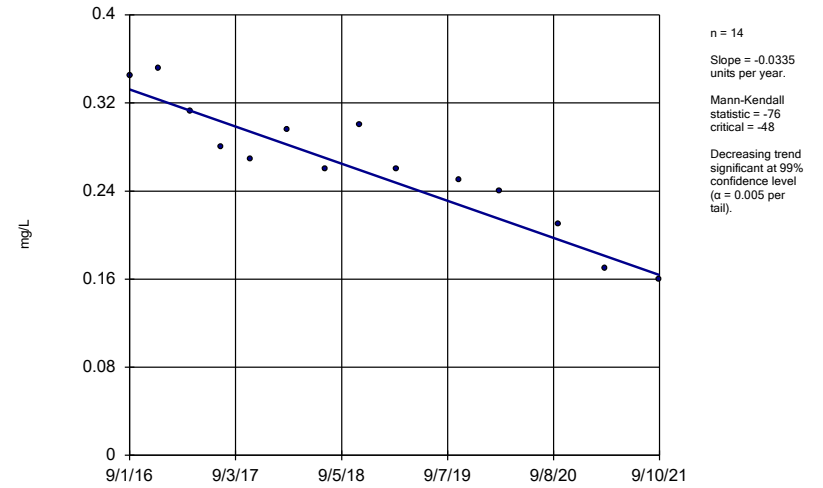
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-42



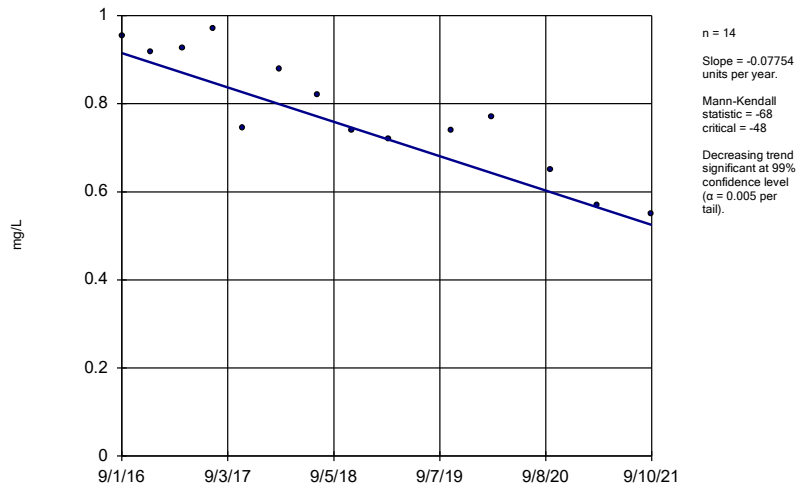
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-47



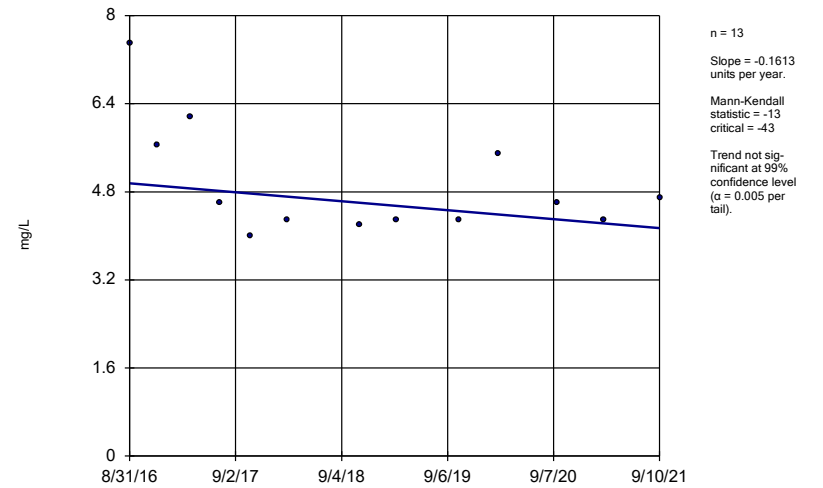
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-48



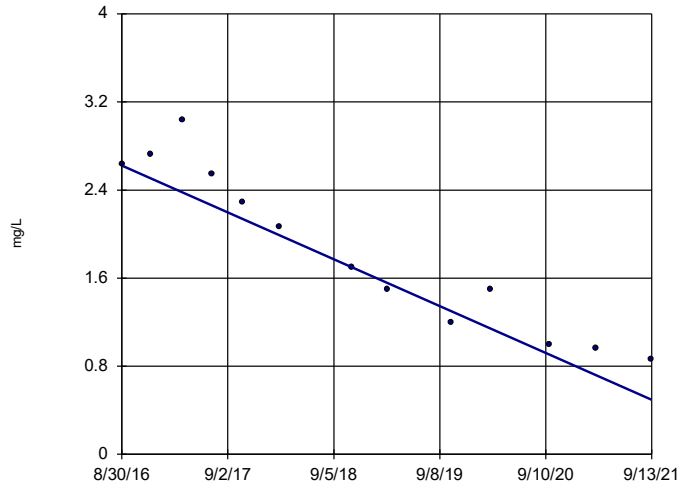
Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-5



Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

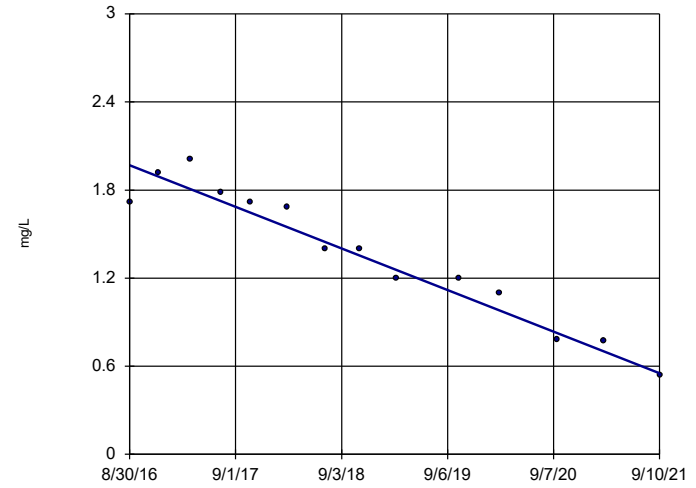
Sen's Slope Estimator  
DGWC-8



n = 13  
Slope = -0.4216  
units per year.  
Mann-Kendall  
statistic = -69  
critical = -43  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

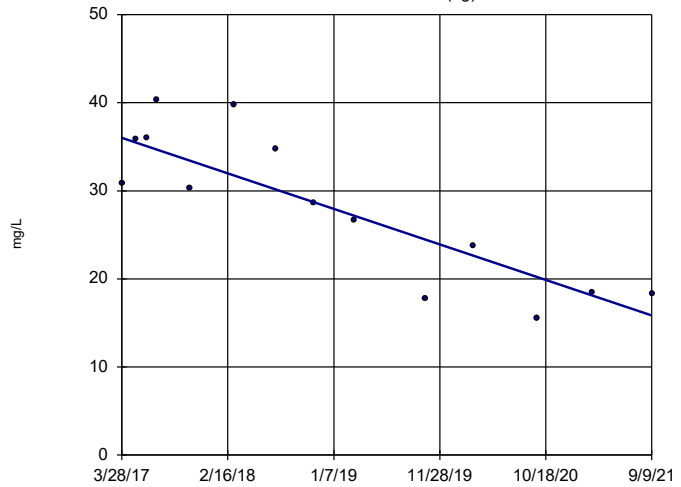
Sen's Slope Estimator  
DGWC-9



n = 14  
Slope = -0.2815  
units per year.  
Mann-Kendall  
statistic = -80  
critical = -48  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

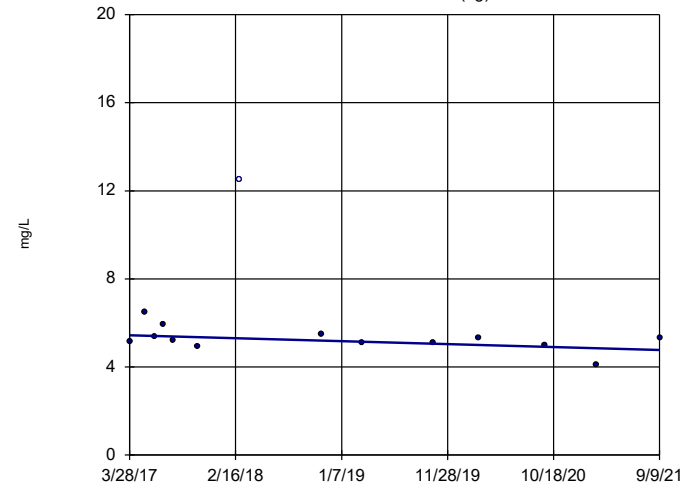
Sen's Slope Estimator  
DGWA-53 (bg)



n = 14  
Slope = -4.533  
units per year.  
Mann-Kendall  
statistic = -57  
critical = -48  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

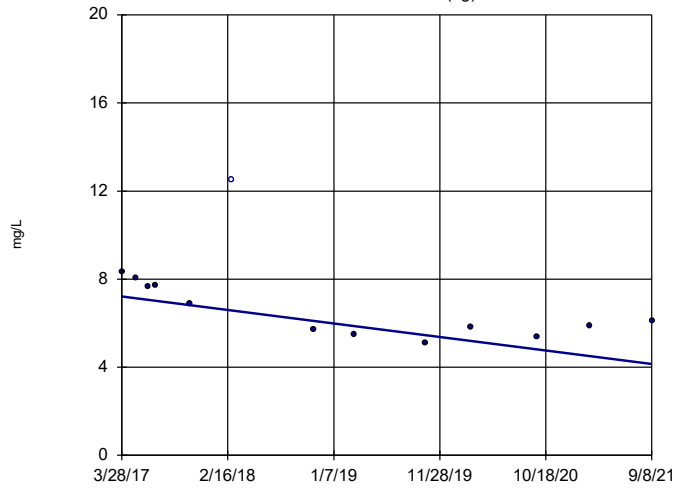
Sen's Slope Estimator  
DGWA-70A (bg)



n = 14  
Slope = -0.1515  
units per year.  
Mann-Kendall  
statistic = -29  
critical = -48  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

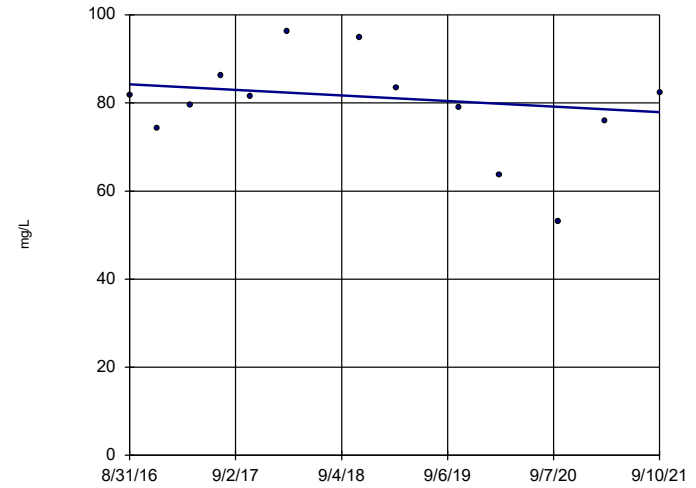
Sen's Slope Estimator  
 DGWA-71 (bg)



n = 13  
 Slope = -0.6883  
 units per year.  
 Mann-Kendall  
 statistic = -36  
 critical = -43  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

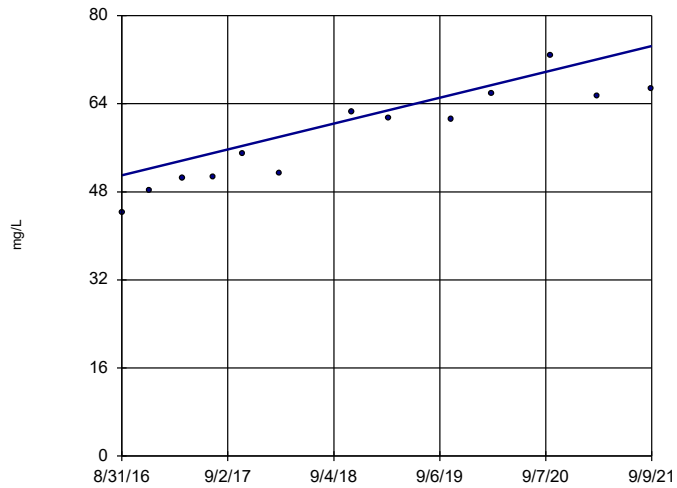
Sen's Slope Estimator  
 DGWC-10



n = 13  
 Slope = -1.262  
 units per year.  
 Mann-Kendall  
 statistic = -14  
 critical = -43  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

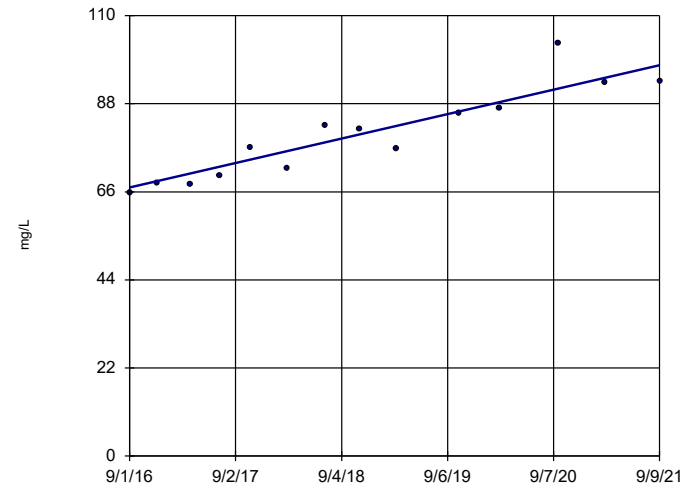
Sen's Slope Estimator  
 DGWC-11



n = 13  
 Slope = 4.66  
 units per year.  
 Mann-Kendall  
 statistic = 64  
 critical = 43  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

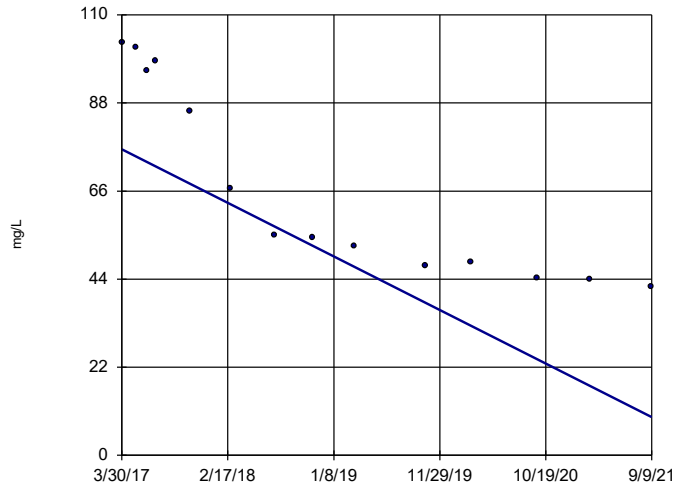
Sen's Slope Estimator  
 DGWC-19



n = 14  
 Slope = 6.089  
 units per year.  
 Mann-Kendall  
 statistic = 75  
 critical = 48  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

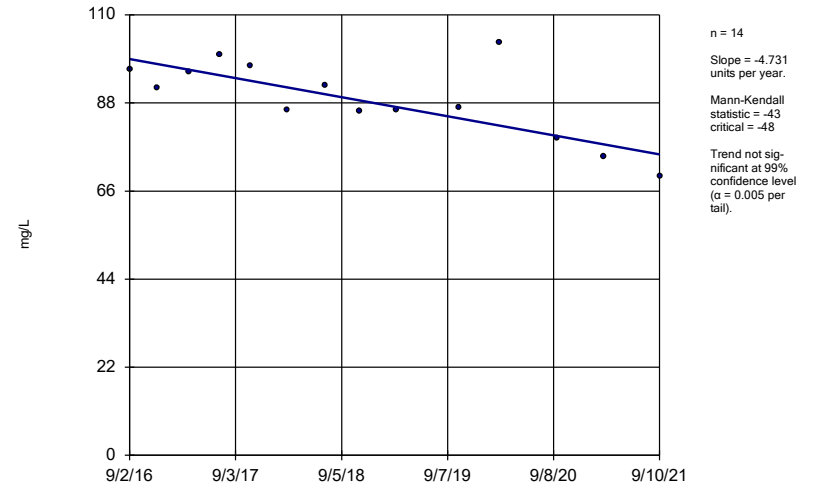
Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-2



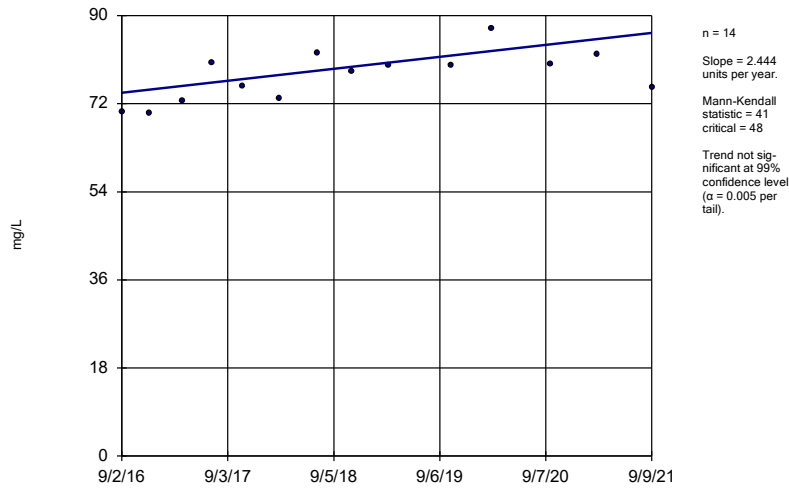
Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-20



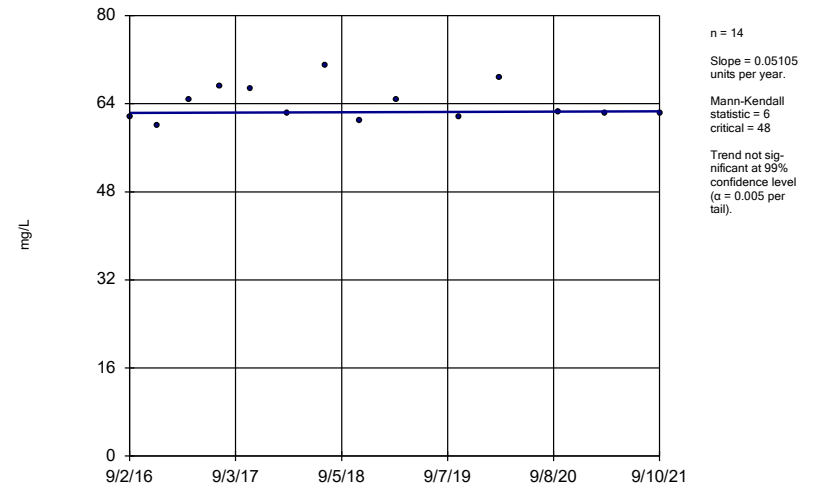
Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-21



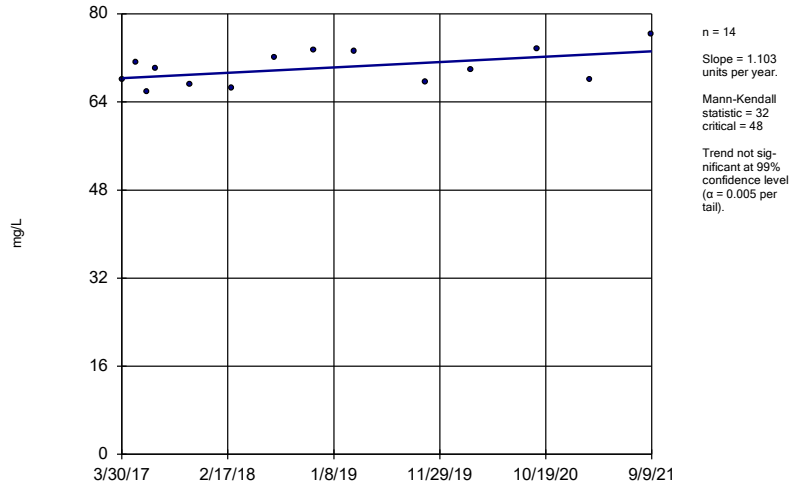
Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-22



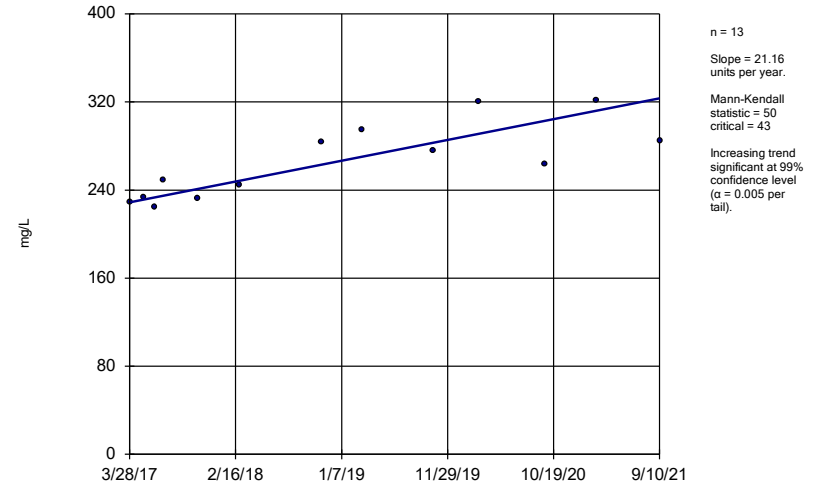
Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-23



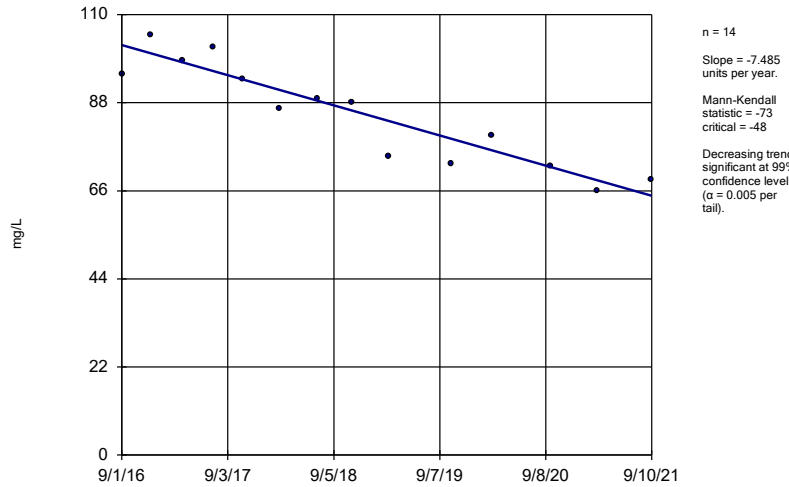
Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-4



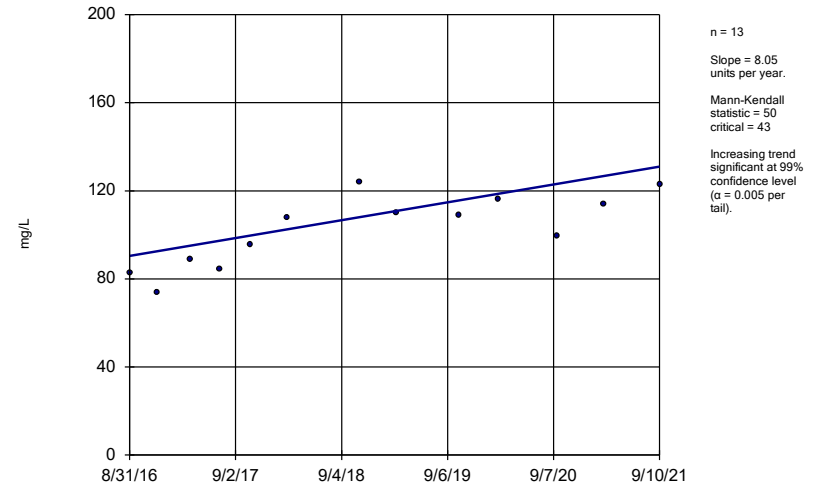
Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-48



Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

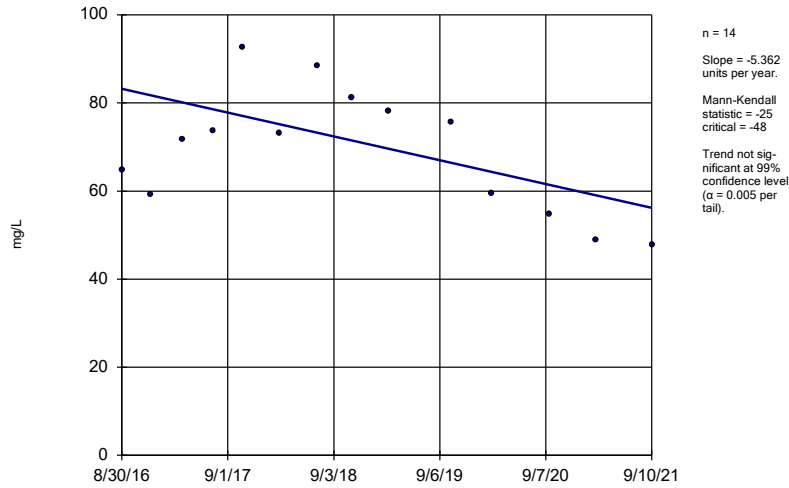
Sen's Slope Estimator  
DGWC-5



Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

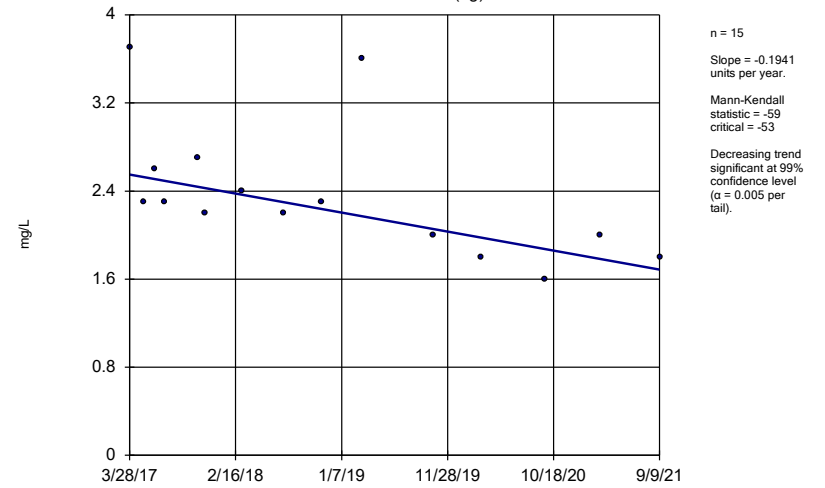


Sen's Slope Estimator  
DGWC-9



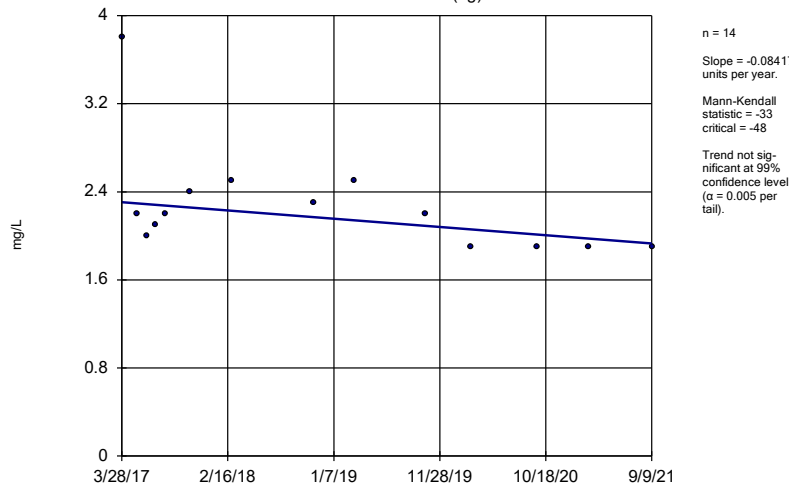
Constituent: Calcium, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-53 (bg)



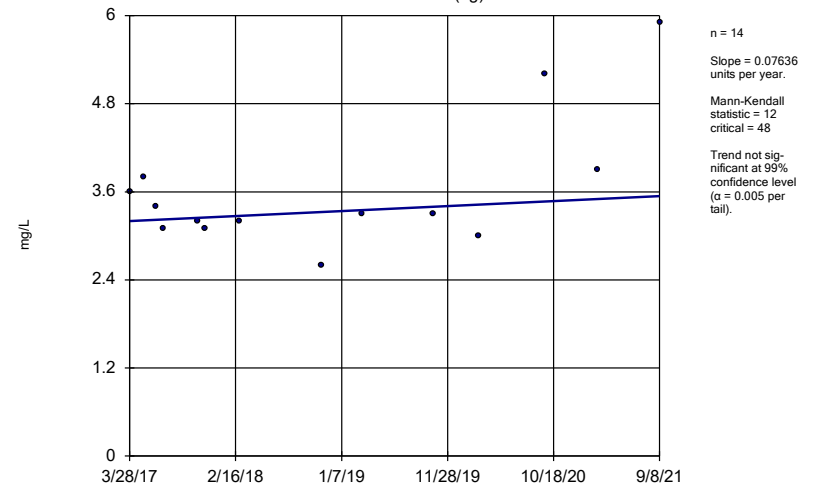
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-70A (bg)



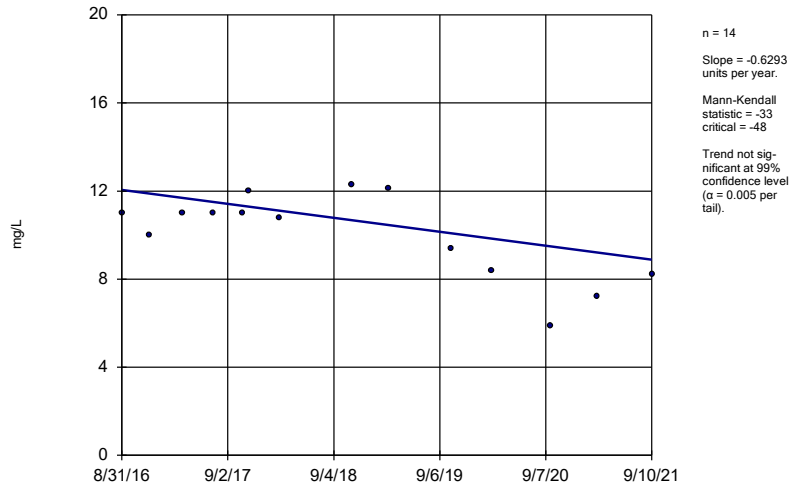
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-71 (bg)



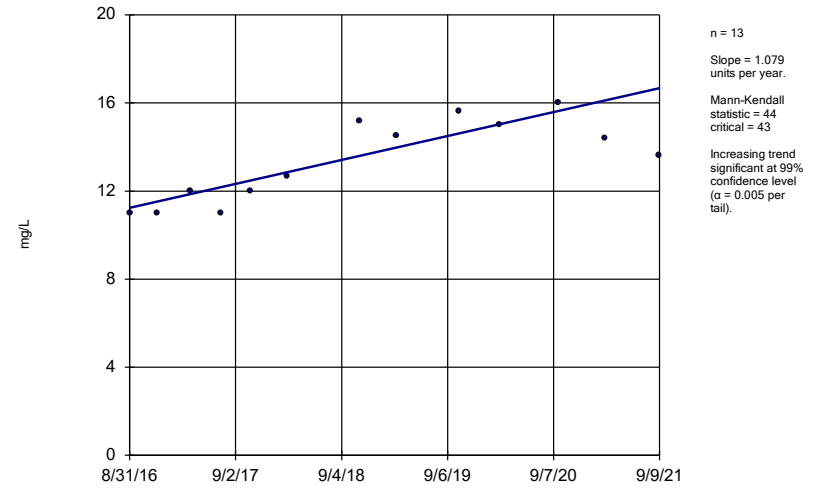
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-10



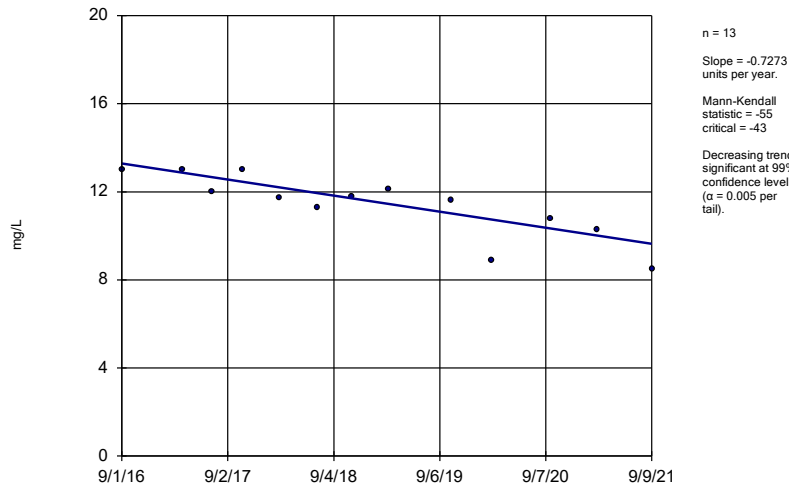
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-11



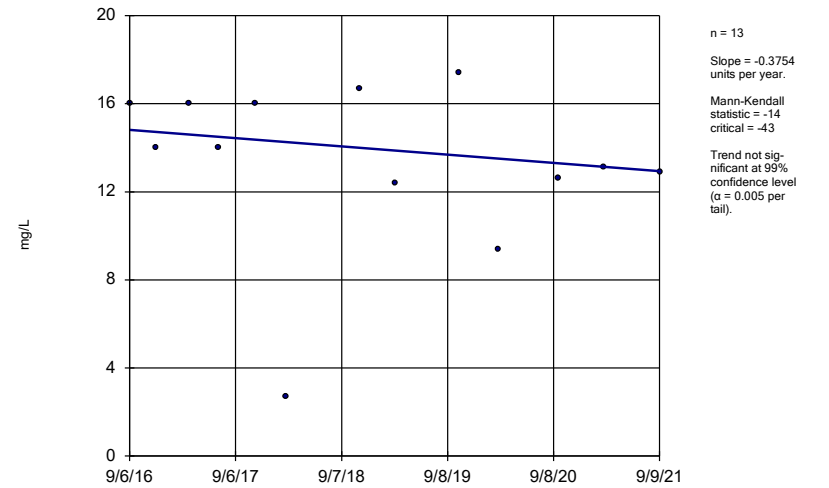
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-12

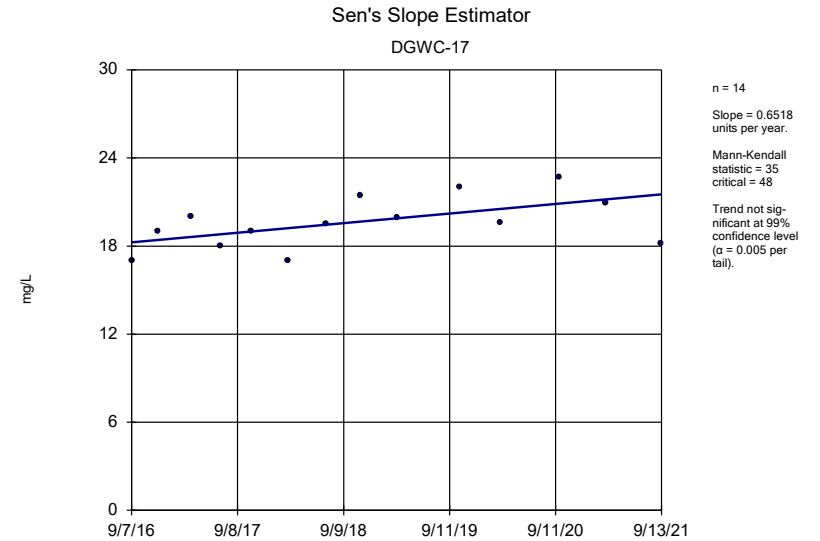
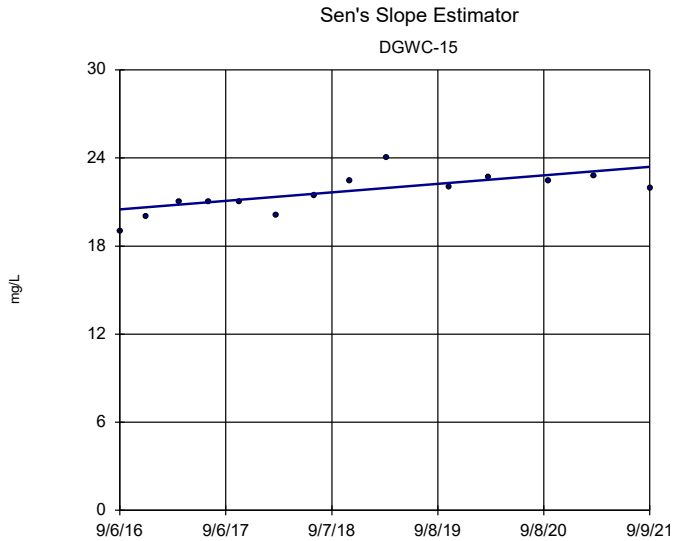


Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-13

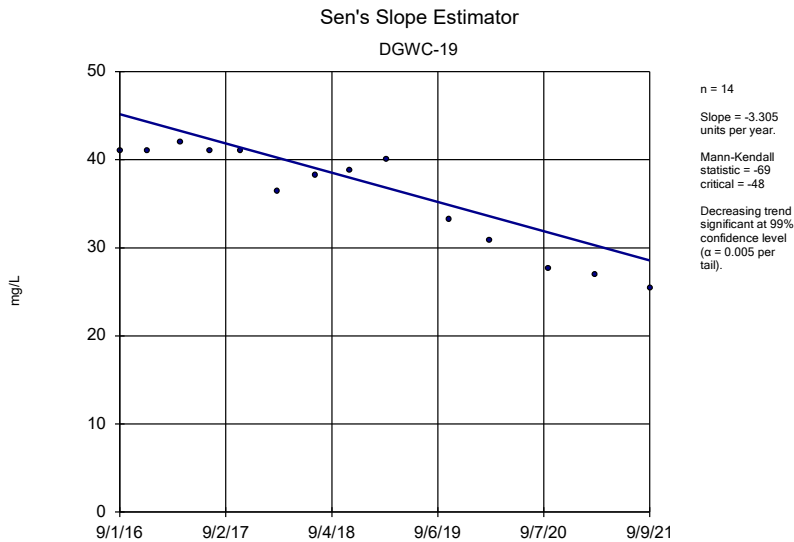


Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

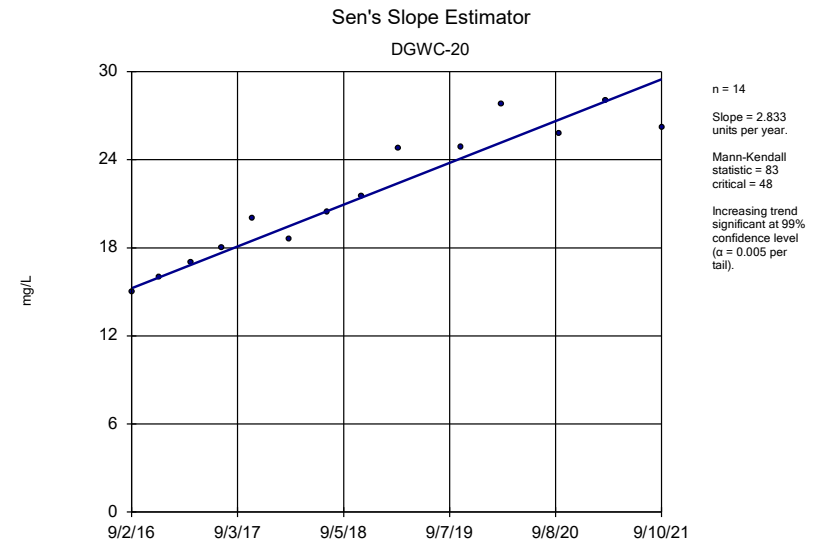


Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

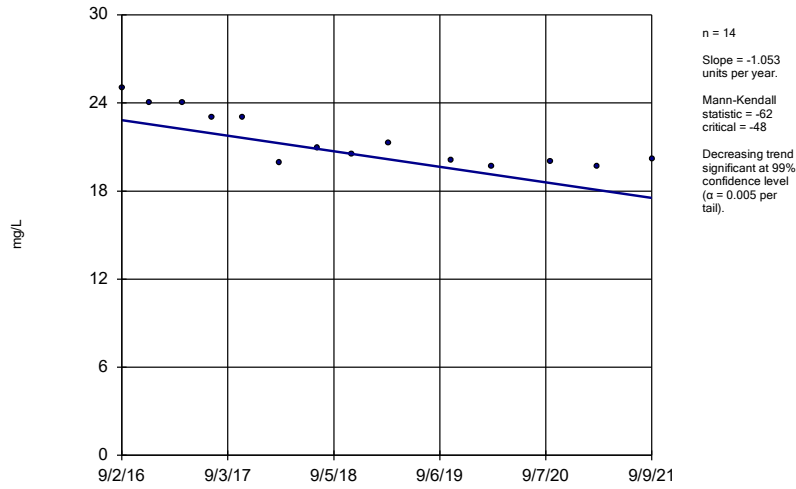


Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP



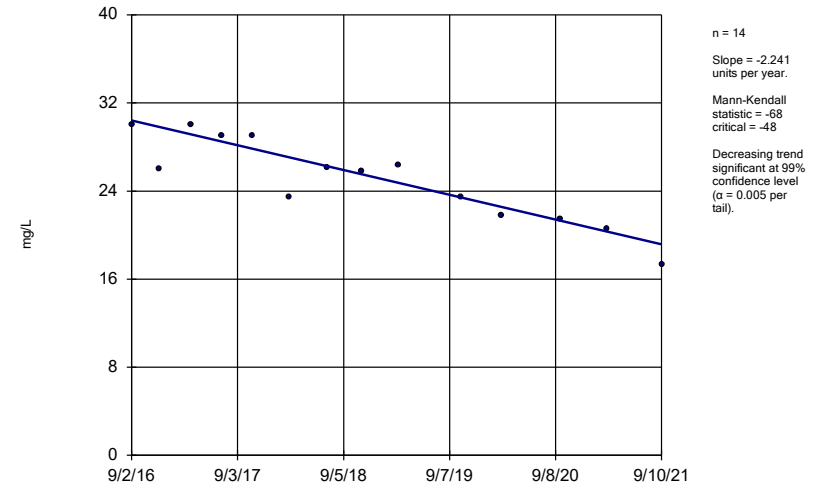
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-21



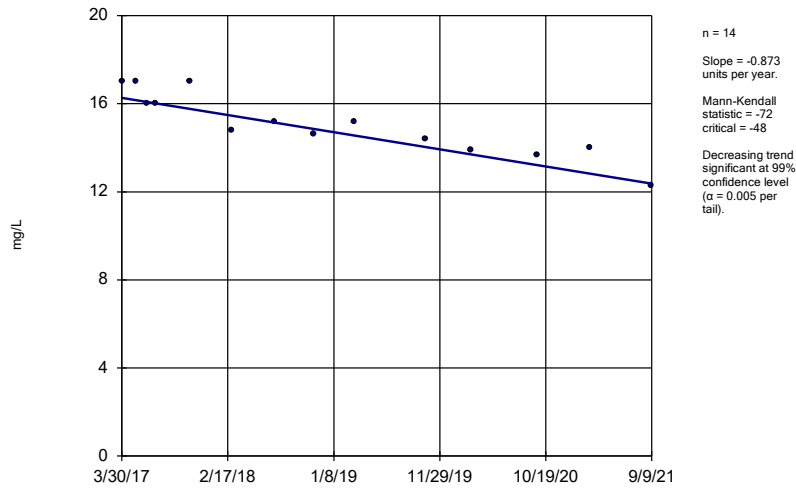
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-22



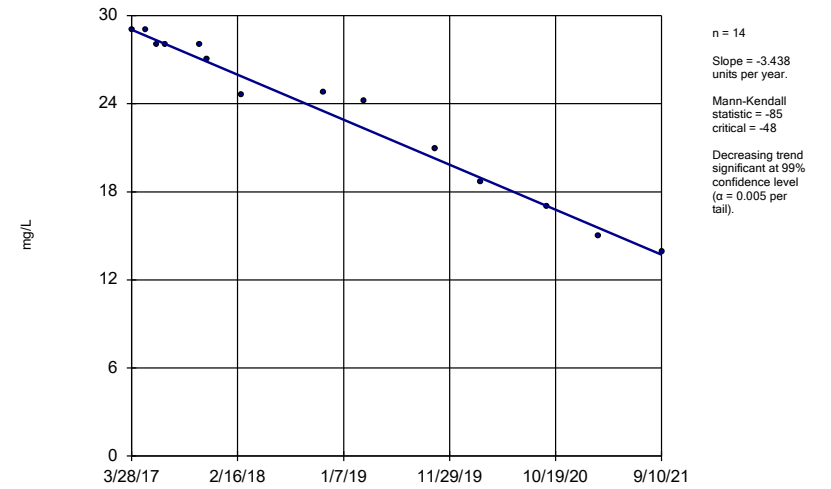
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-23



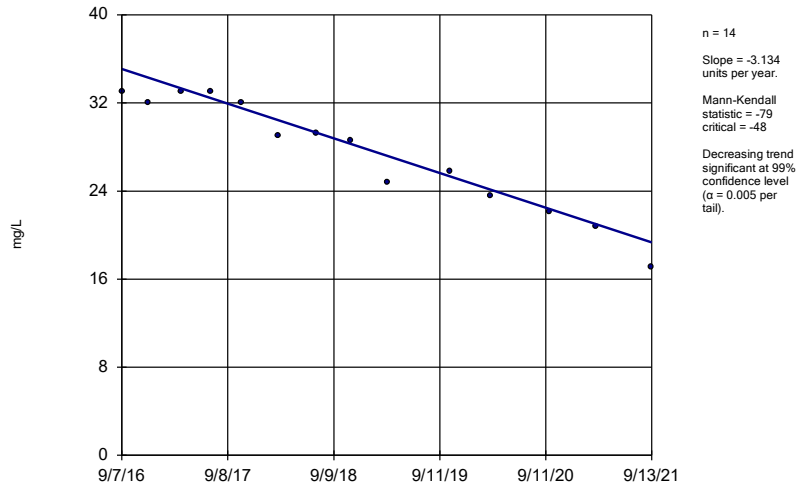
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-4



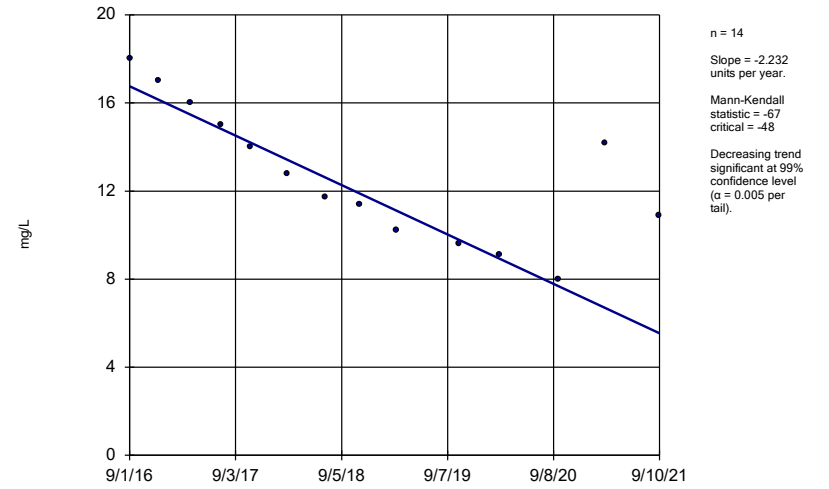
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-42



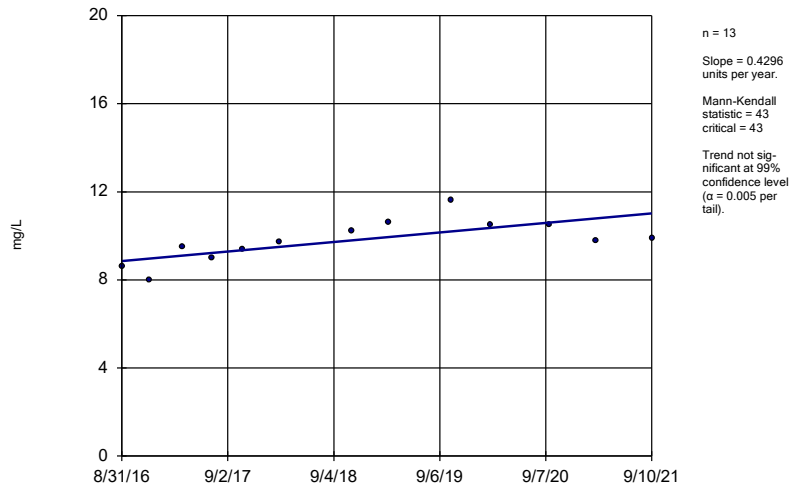
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-48



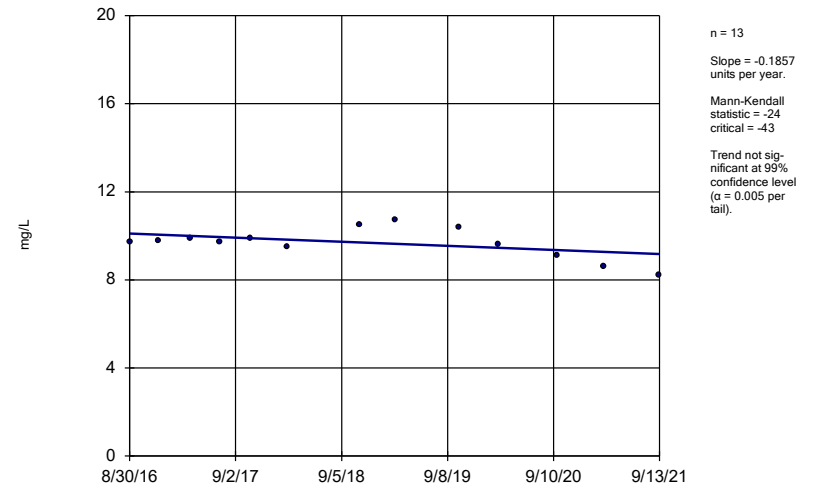
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-5



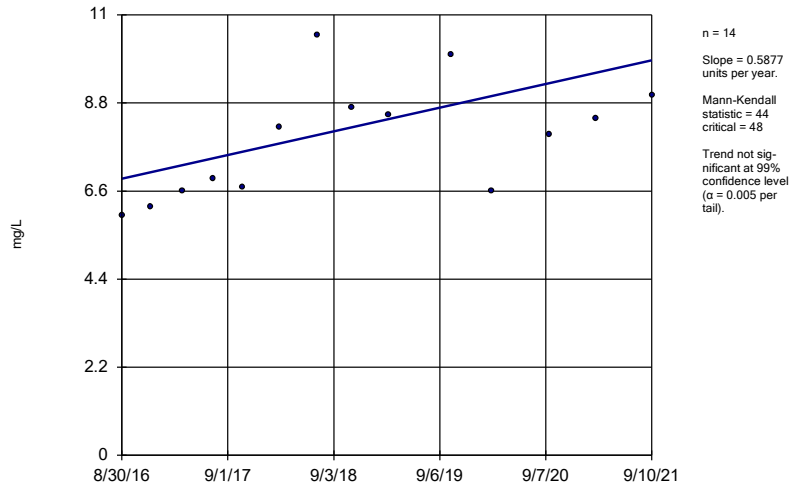
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-8



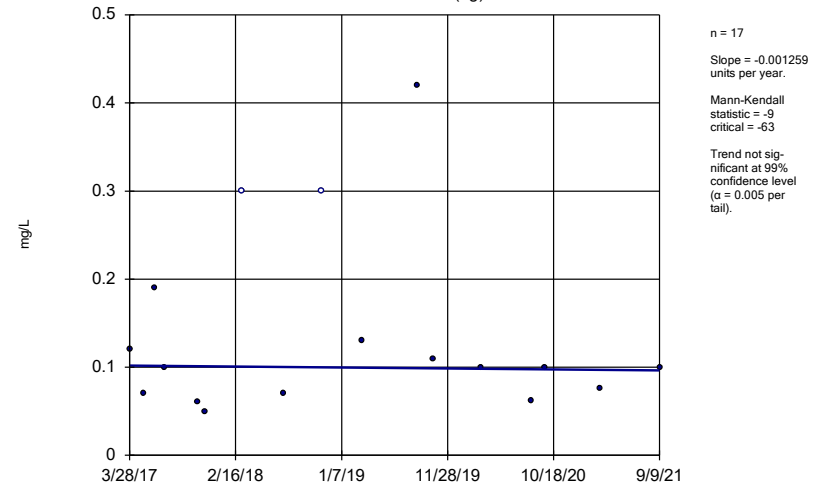
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-9



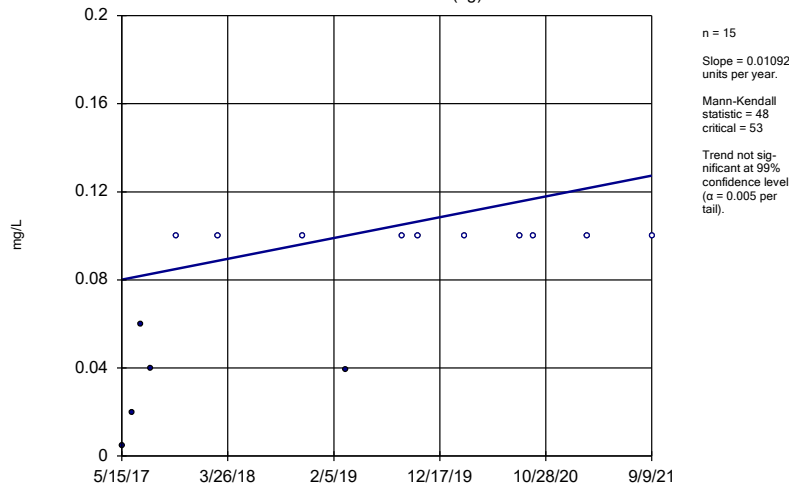
Constituent: Chloride, Total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-53 (bg)



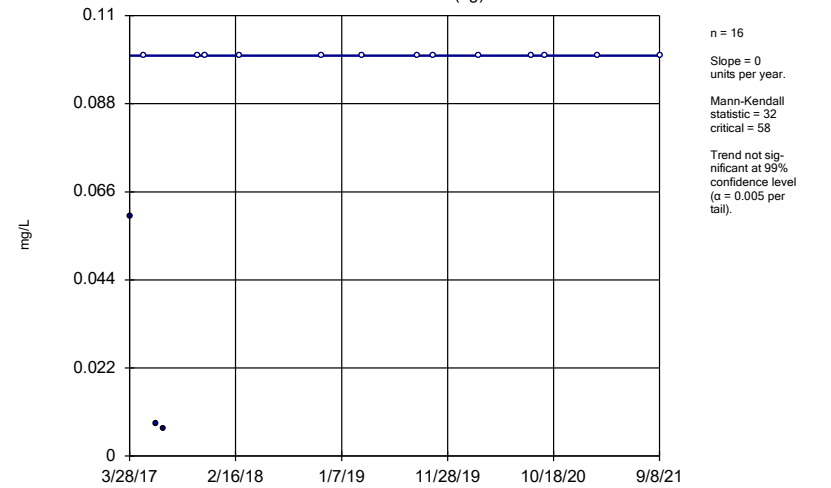
Constituent: Fluoride, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-70A (bg)



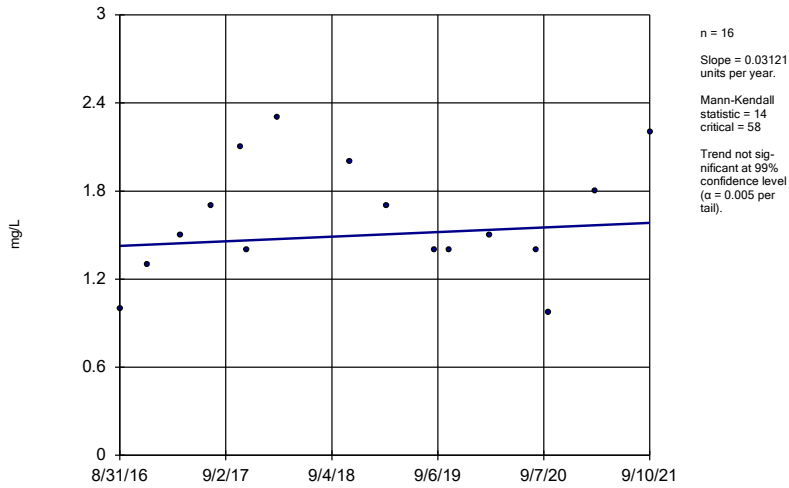
Constituent: Fluoride, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-71 (bg)



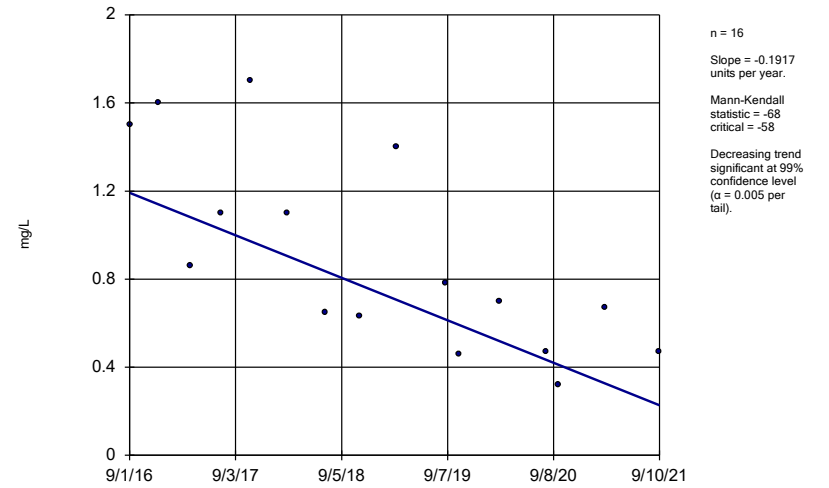
Constituent: Fluoride, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-10



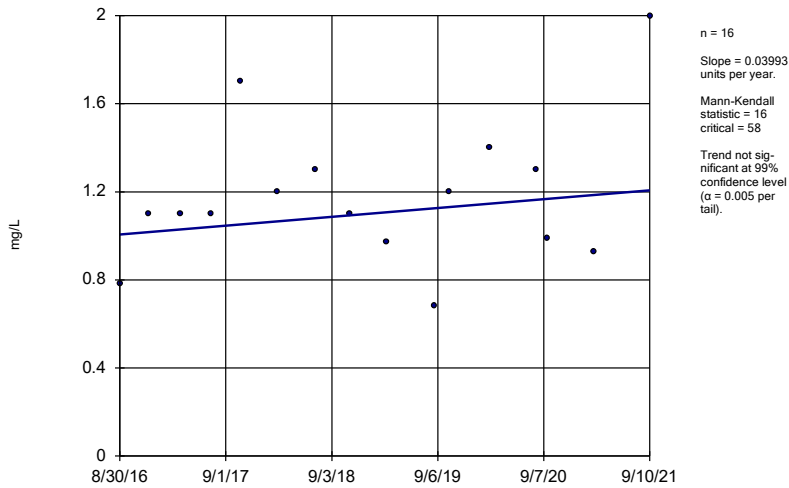
Constituent: Fluoride, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-48



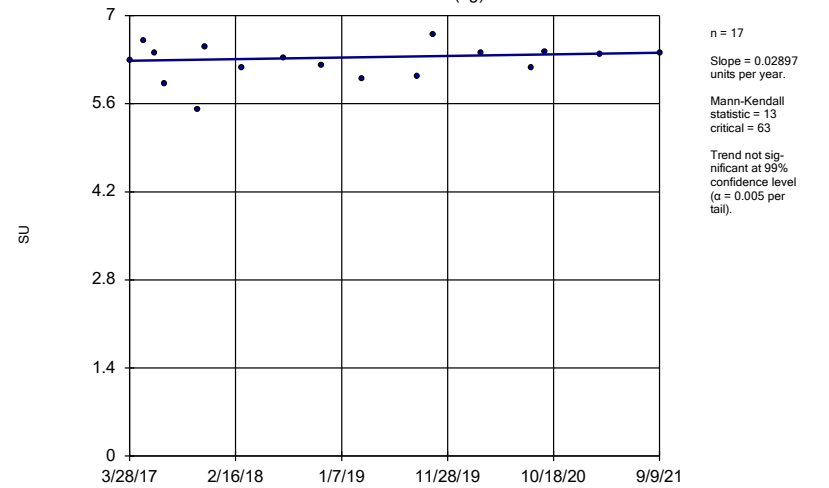
Constituent: Fluoride, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-9



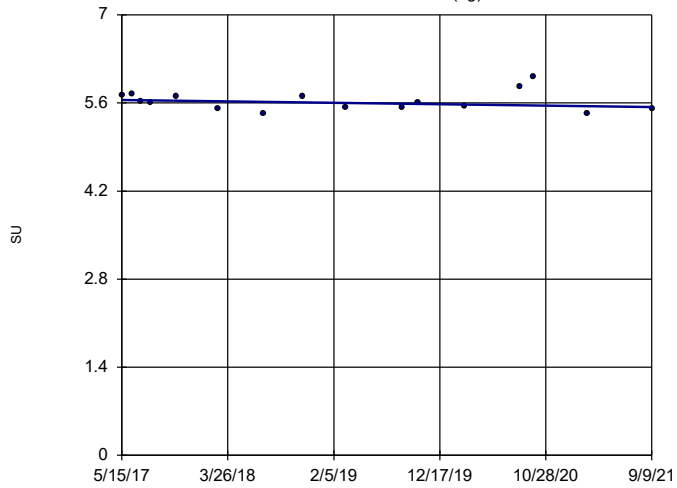
Constituent: Fluoride, total Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-53 (bg)



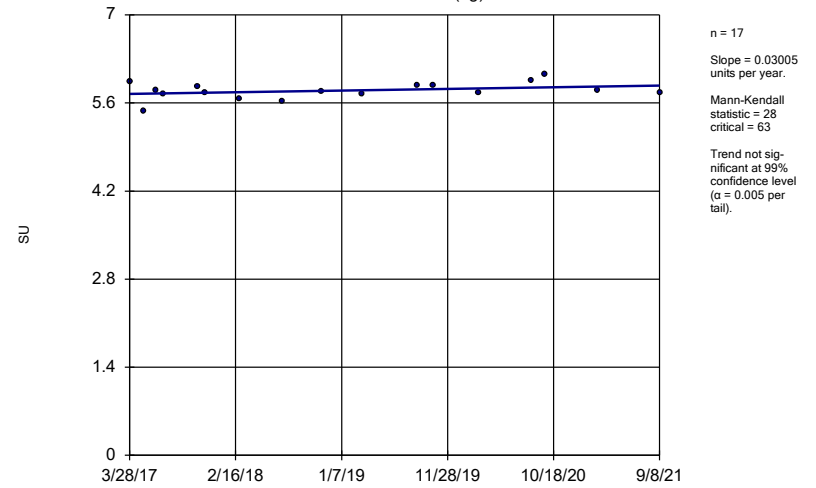
Constituent: pH, Field Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWA-70A (bg)



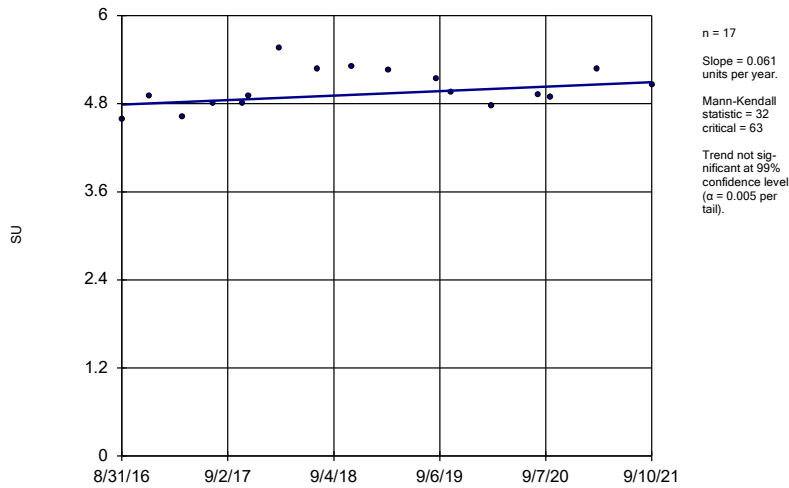
Constituent: pH, Field Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWA-71 (bg)



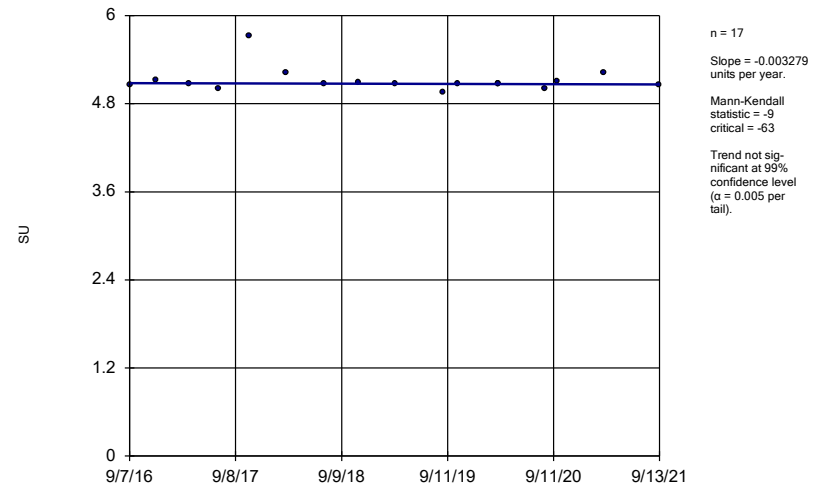
Constituent: pH, Field Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-10



Constituent: pH, Field Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

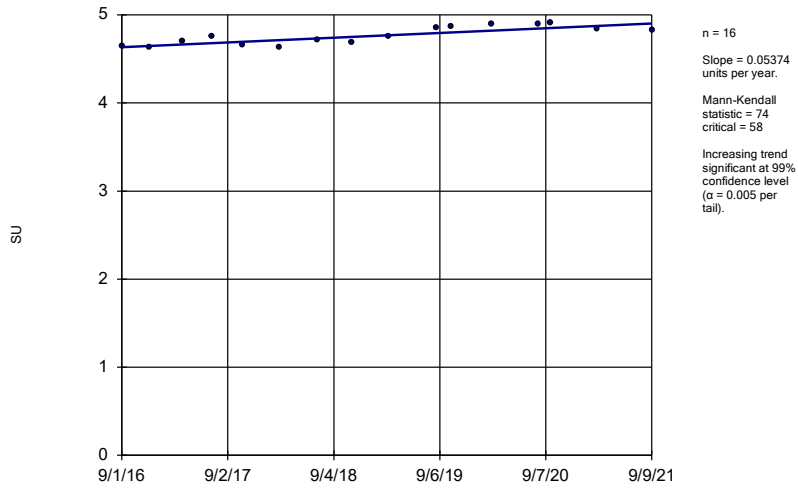
### Sen's Slope Estimator DGWC-17



Constituent: pH, Field Analysis Run 2/25/2022 7:24 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

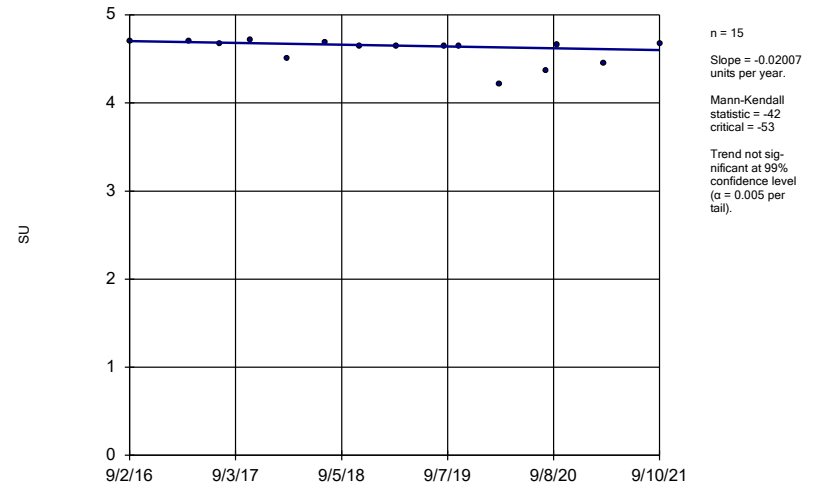


### Sen's Slope Estimator DGWC-19



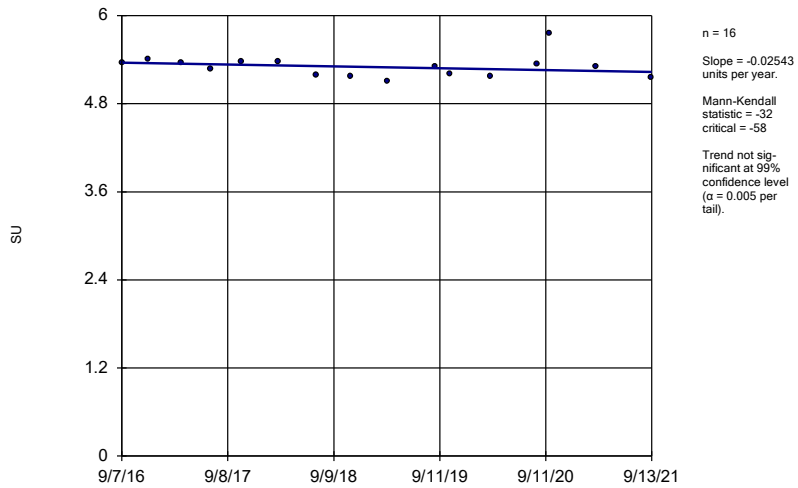
Constituent: pH, Field Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-20



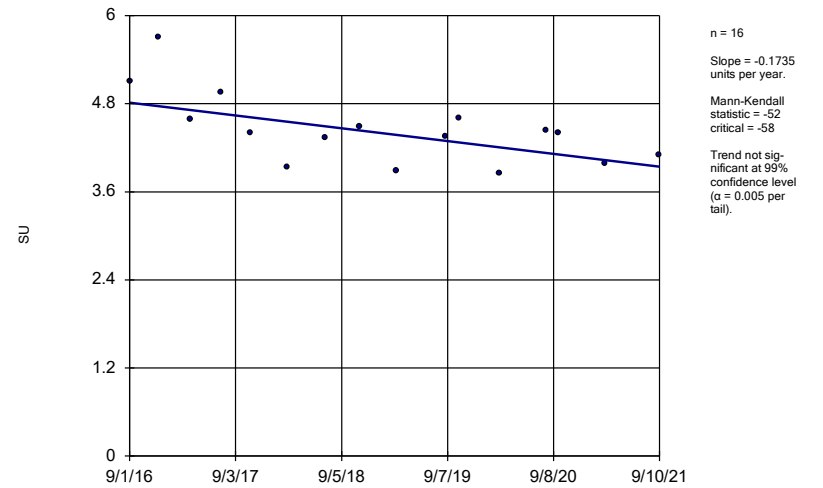
Constituent: pH, Field Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-42



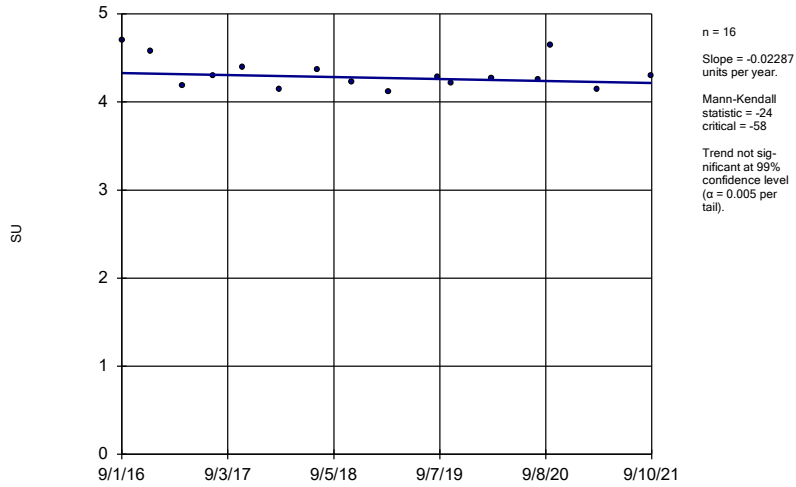
Constituent: pH, Field Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-47



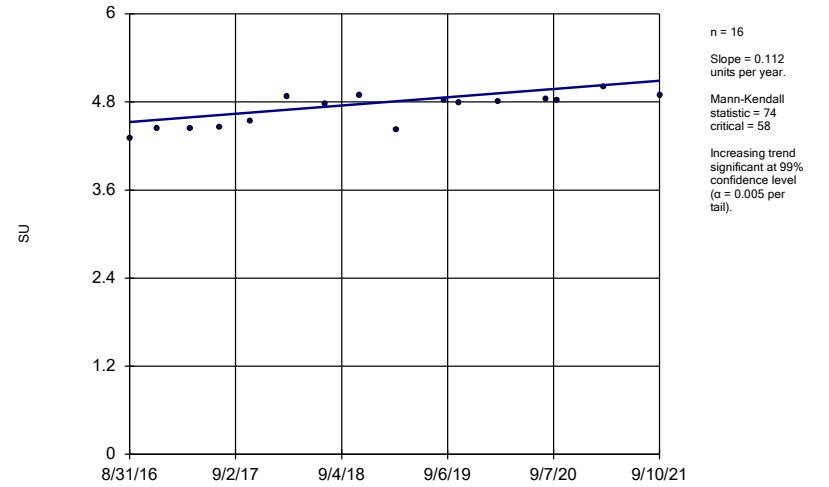
Constituent: pH, Field Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-48



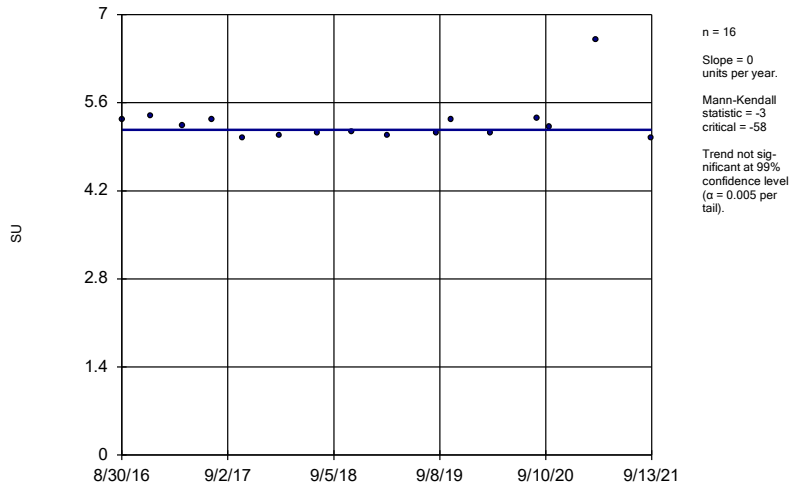
Constituent: pH, Field Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-5



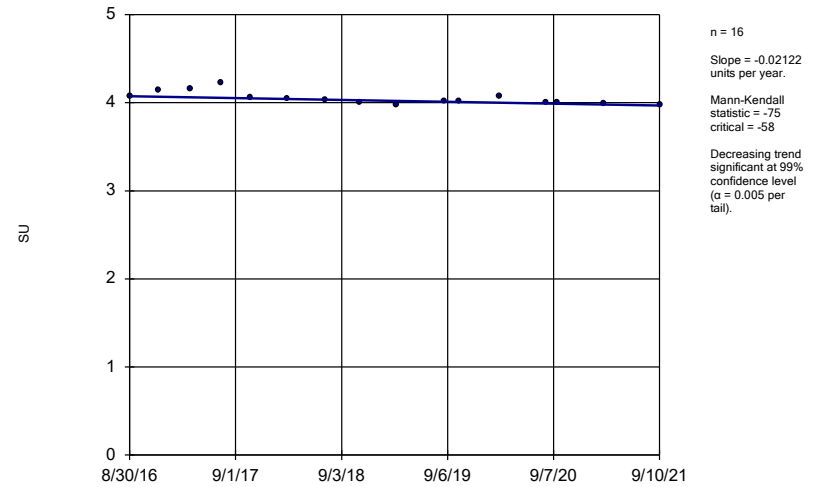
Constituent: pH, Field Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-8



Constituent: pH, Field Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

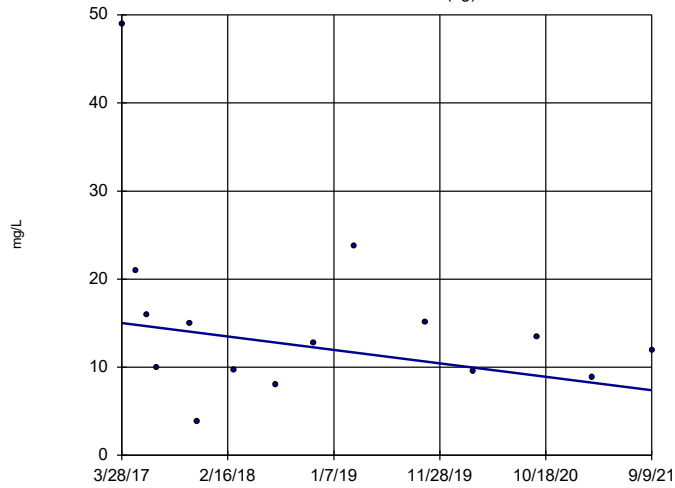
### Sen's Slope Estimator DGWC-9



Constituent: pH, Field Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-53 (bg)

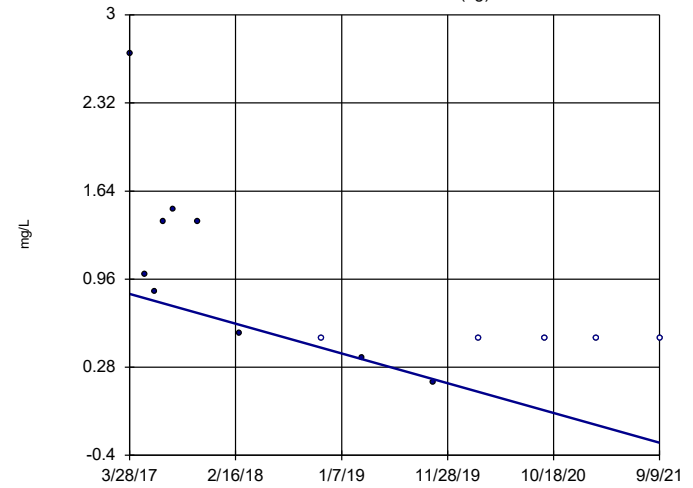


n = 15  
 Slope = -1.708  
 units per year.  
 Mann-Kendall  
 statistic = -31  
 critical = -53  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-70A (bg)

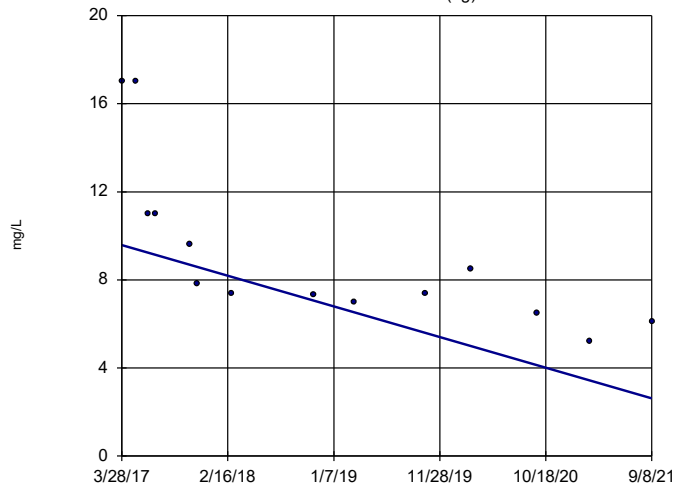


n = 14  
 Slope = -0.2582  
 units per year.  
 Mann-Kendall  
 statistic = -50  
 critical = -48  
 Decreasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-71 (bg)

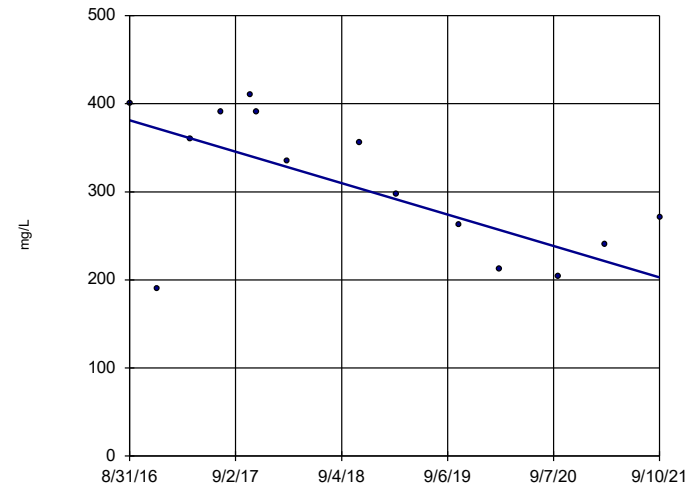


n = 14  
 Slope = -1.564  
 units per year.  
 Mann-Kendall  
 statistic = -72  
 critical = -48  
 Decreasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

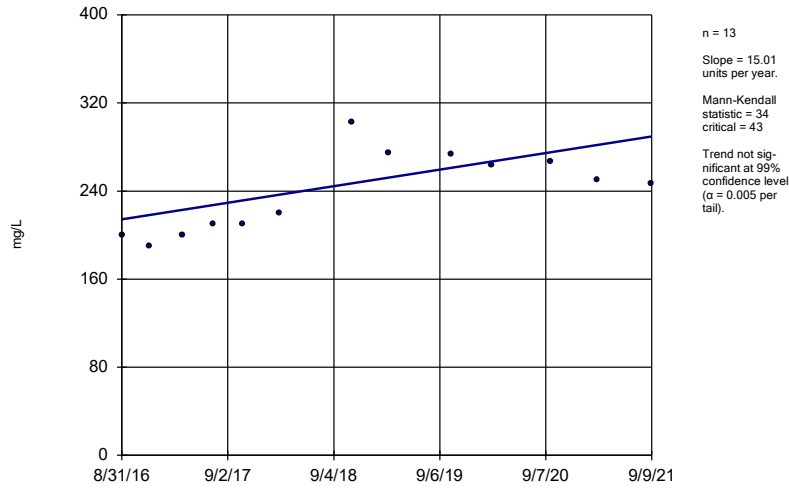
DGWC-10



n = 14  
 Slope = -35.48  
 units per year.  
 Mann-Kendall  
 statistic = -42  
 critical = -48  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

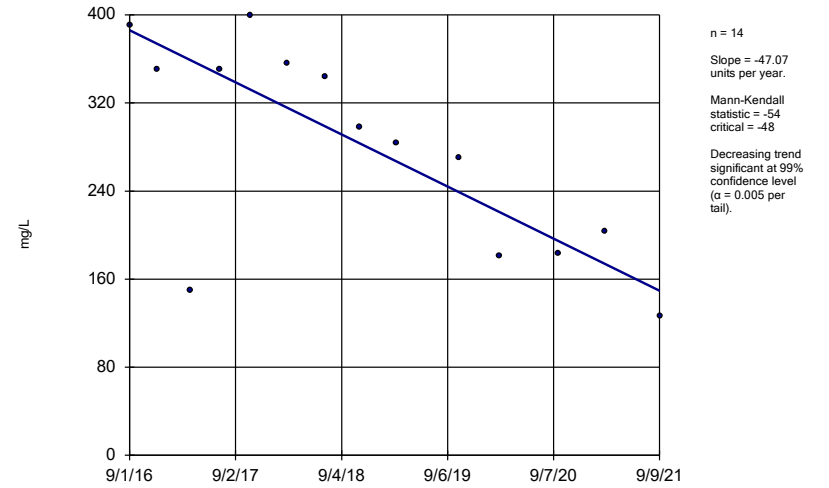
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-11



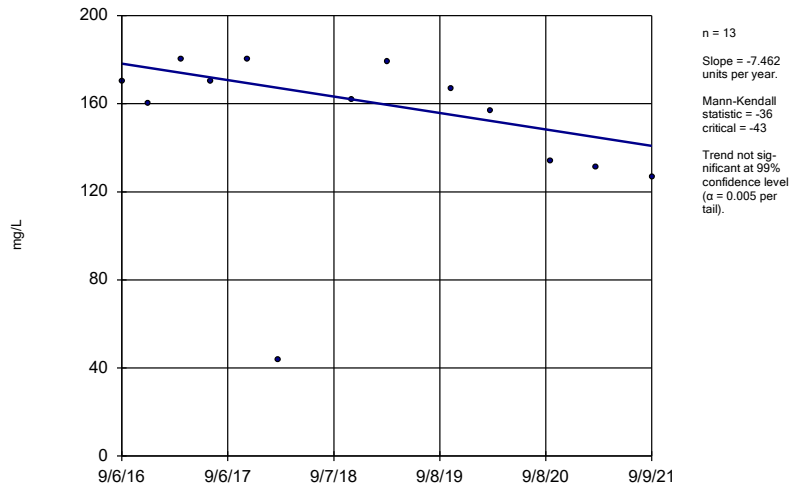
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-12



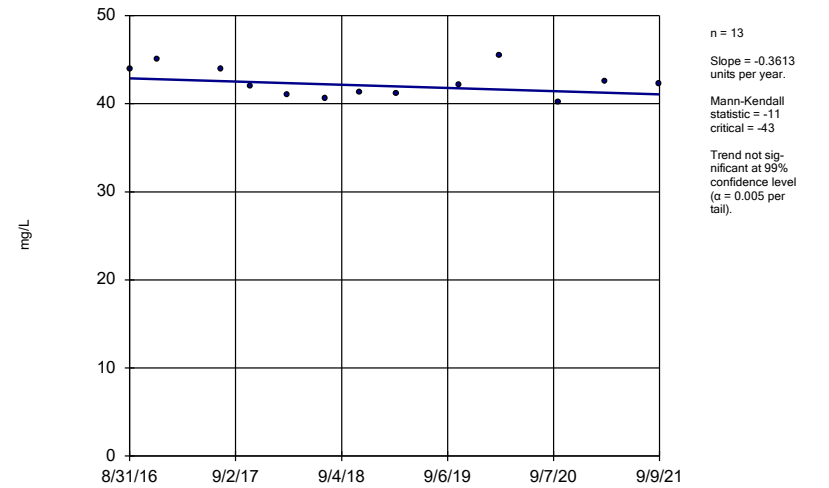
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-13



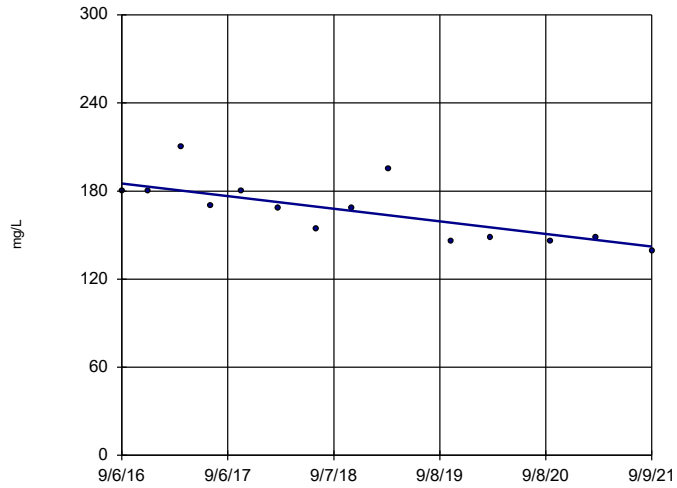
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-14



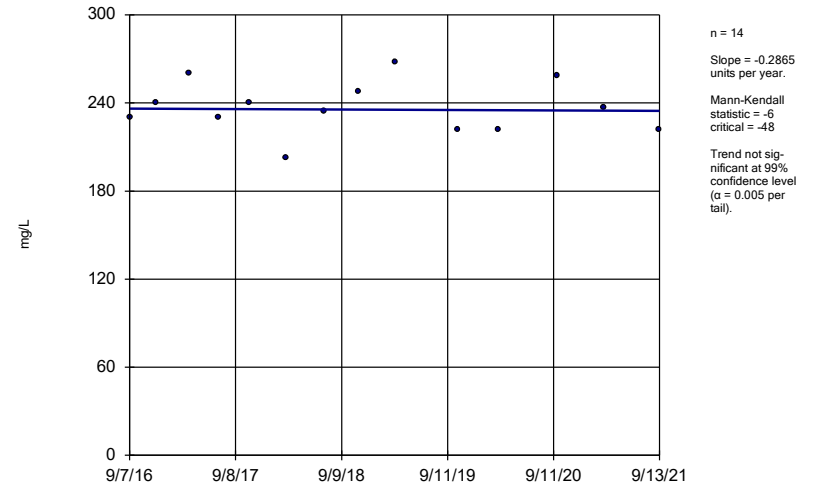
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-15



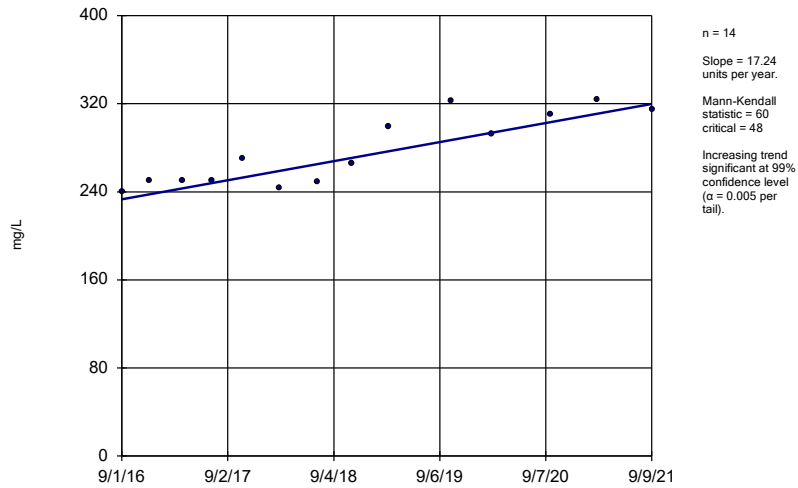
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-17



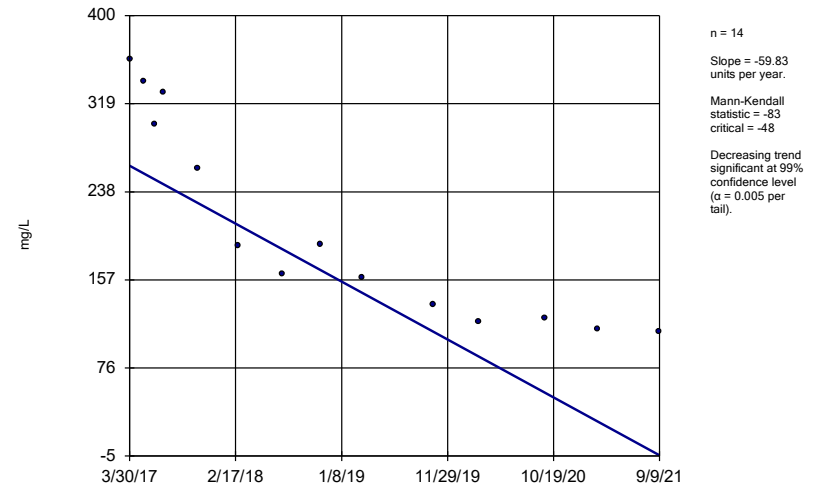
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-19



Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

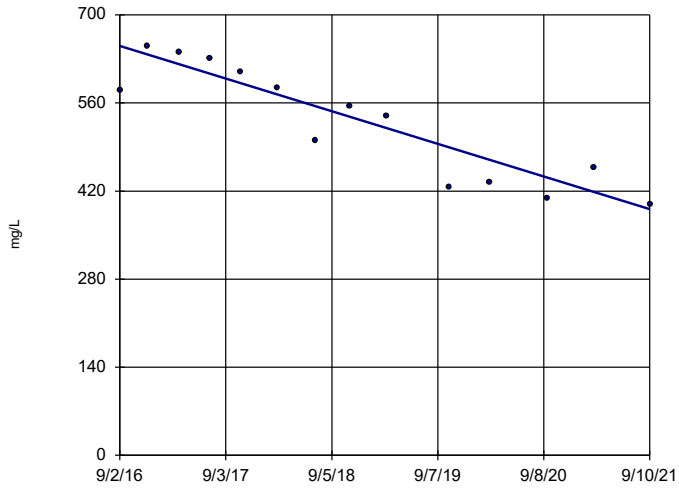
Sen's Slope Estimator  
DGWC-2



Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-20

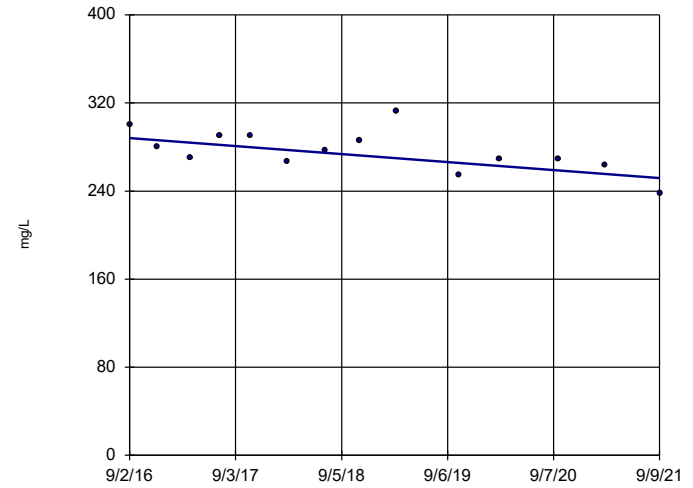


n = 14  
 Slope = -51.63  
 units per year.  
 Mann-Kendall  
 statistic = -69  
 critical = -48  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-21

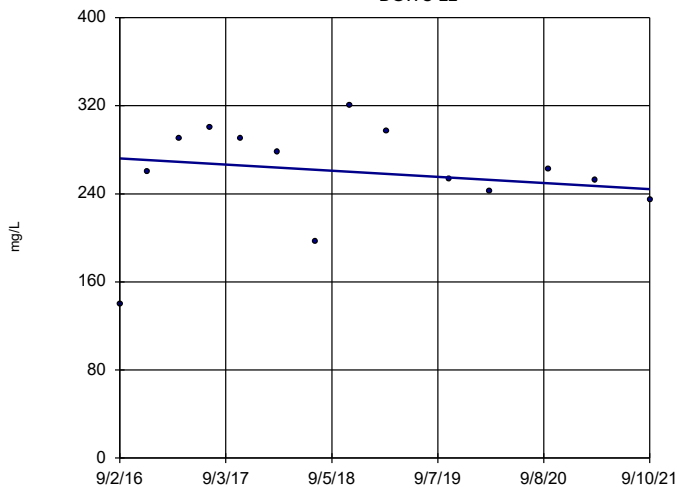


n = 14  
 Slope = -7.197  
 units per year.  
 Mann-Kendall  
 statistic = -43  
 critical = -48  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-22

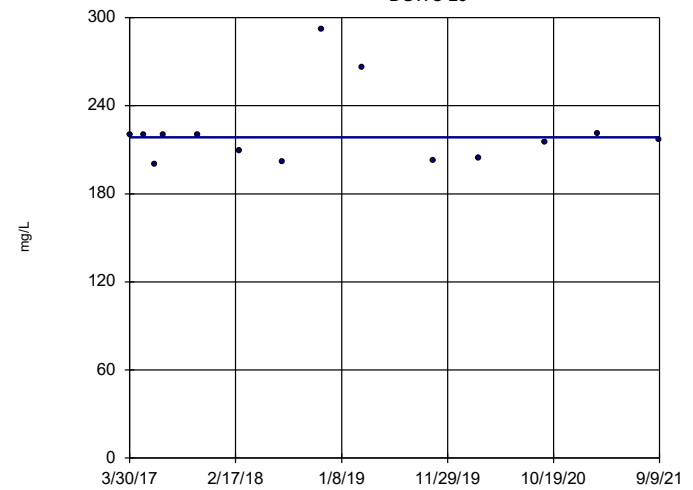


n = 14  
 Slope = -5.563  
 units per year.  
 Mann-Kendall  
 statistic = -14  
 critical = -48  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

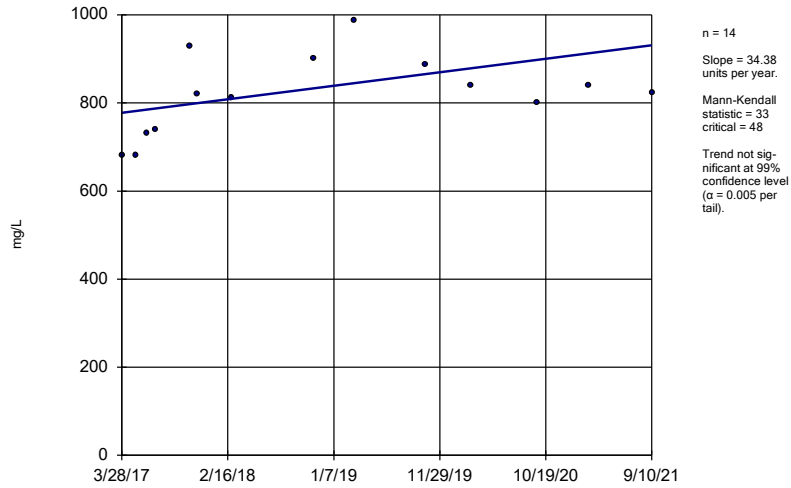
DGWC-23



n = 14  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 3  
 critical = 48  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

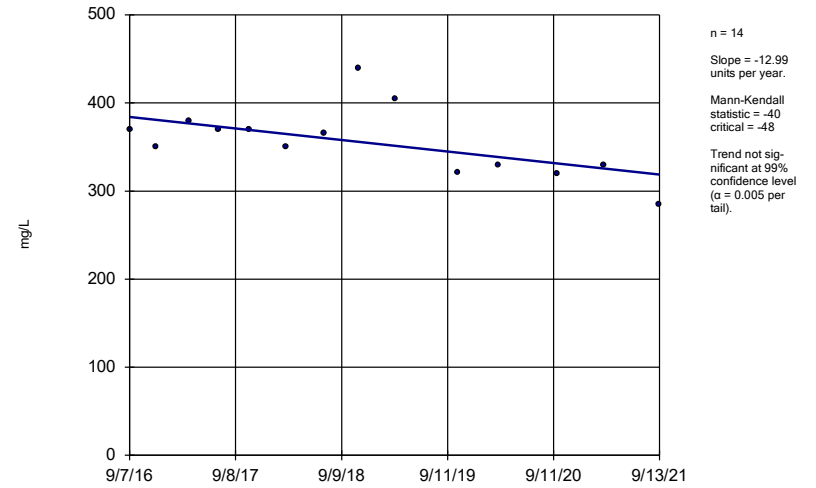
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-4



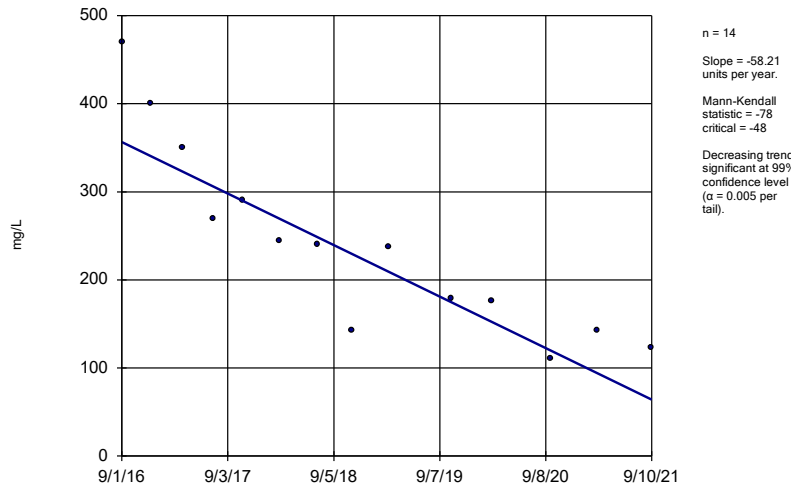
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-42



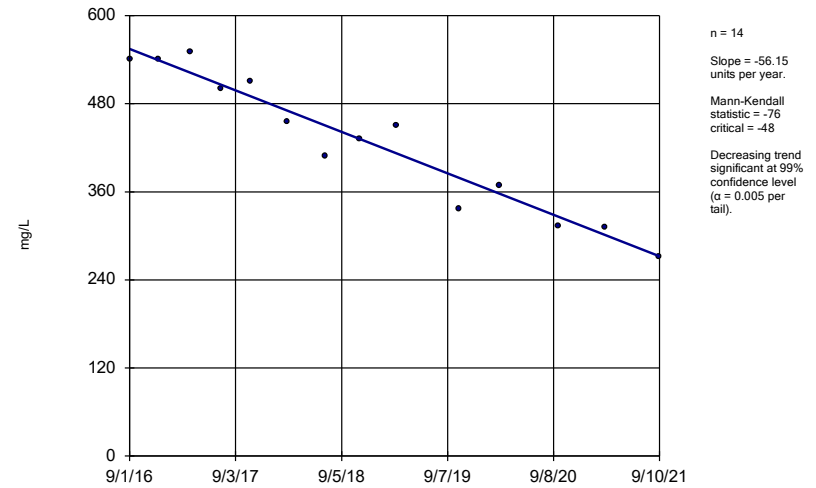
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-47



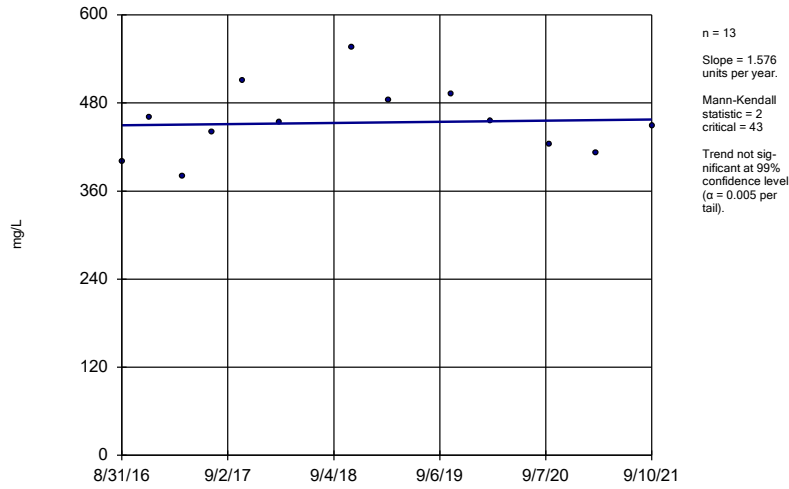
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-48



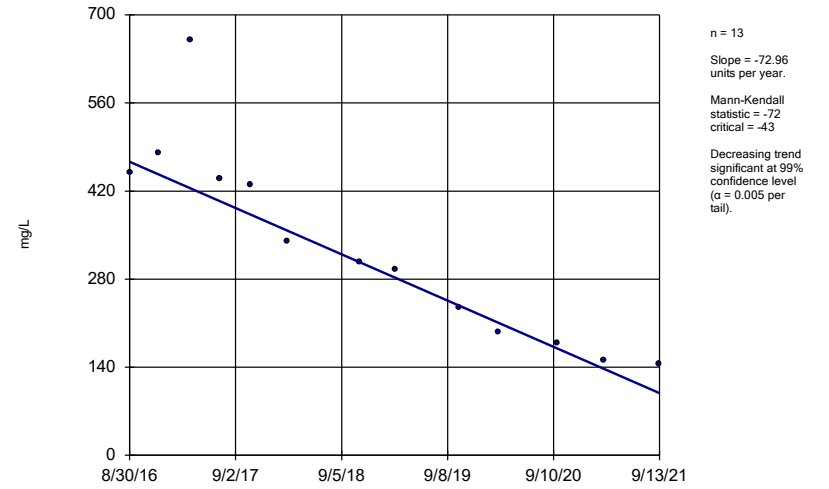
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-5



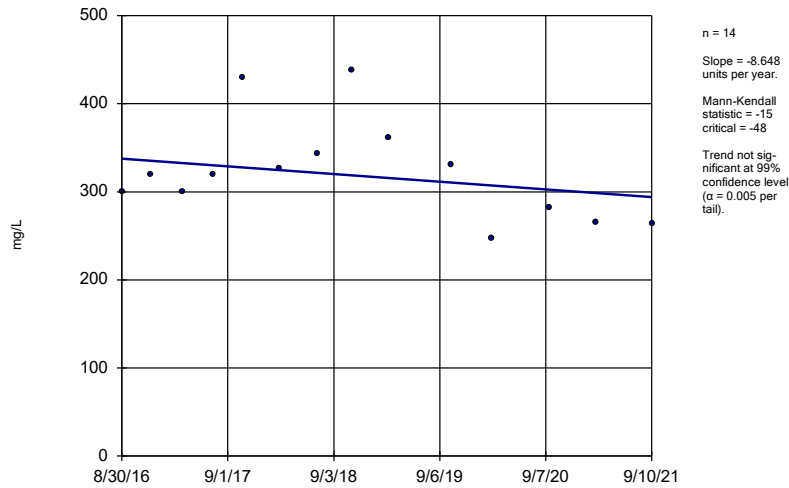
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-8



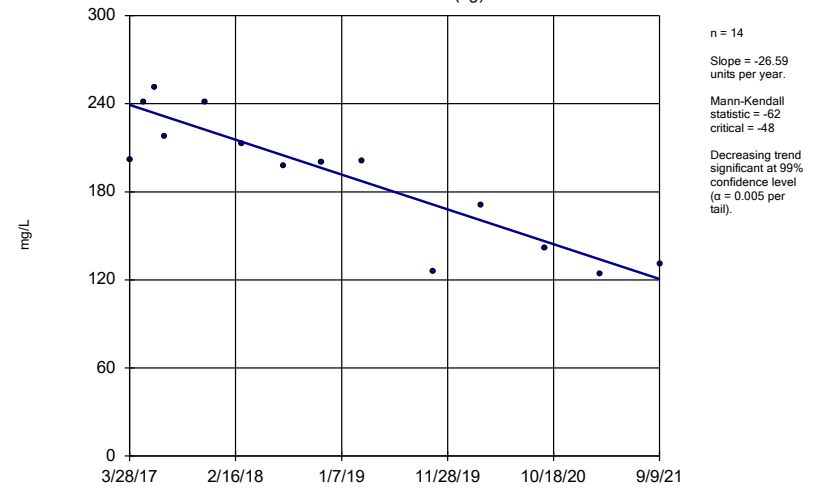
Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-9



Constituent: Sulfate as SO4 Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

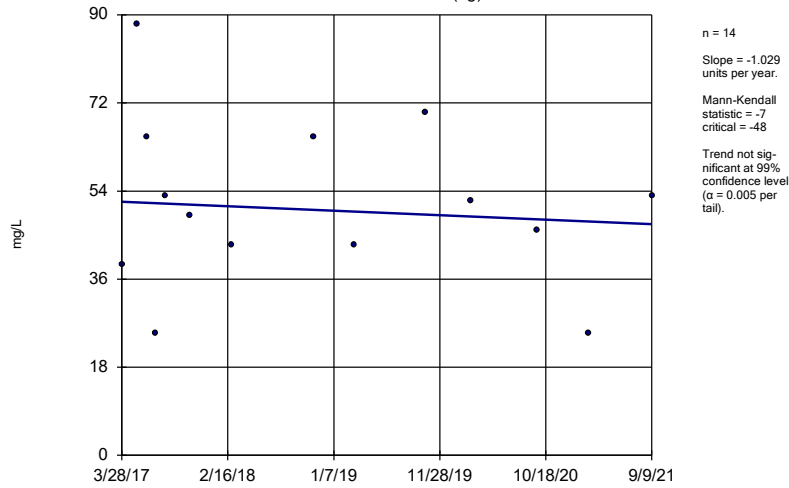
### Sen's Slope Estimator DGWA-53 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

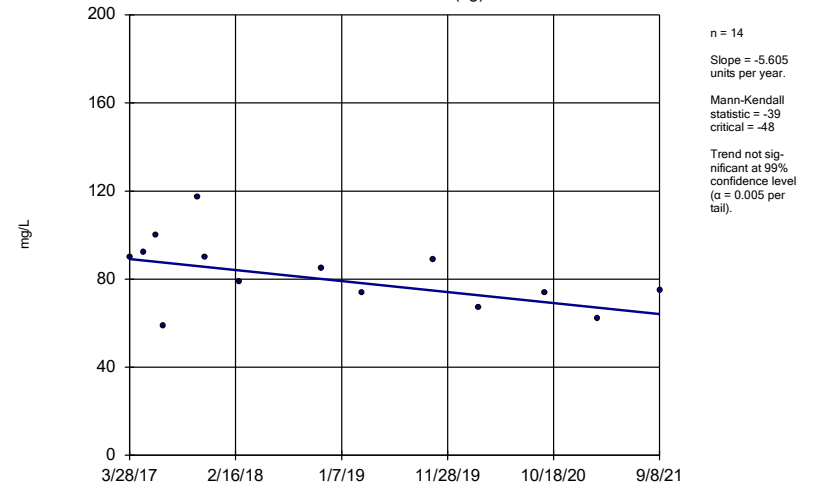


Sen's Slope Estimator  
DGWA-70A (bg)



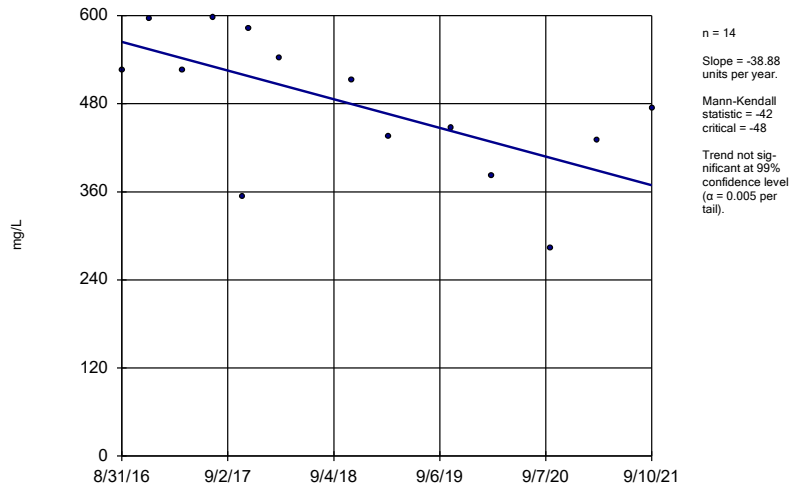
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-71 (bg)



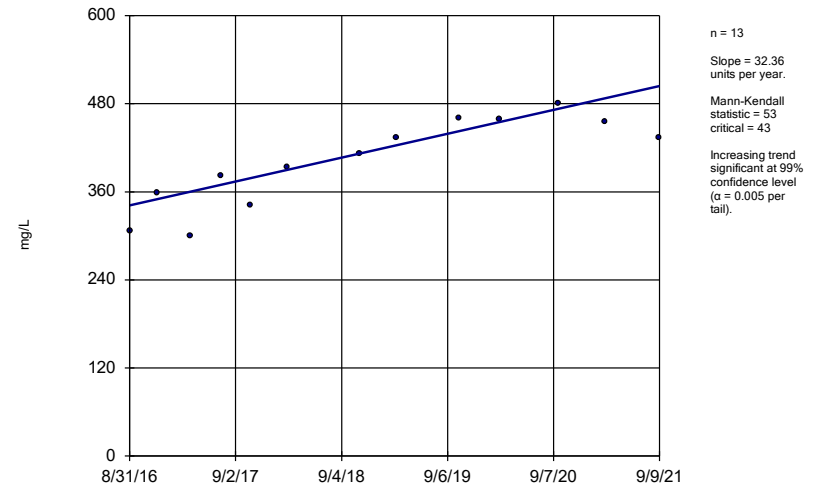
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-10



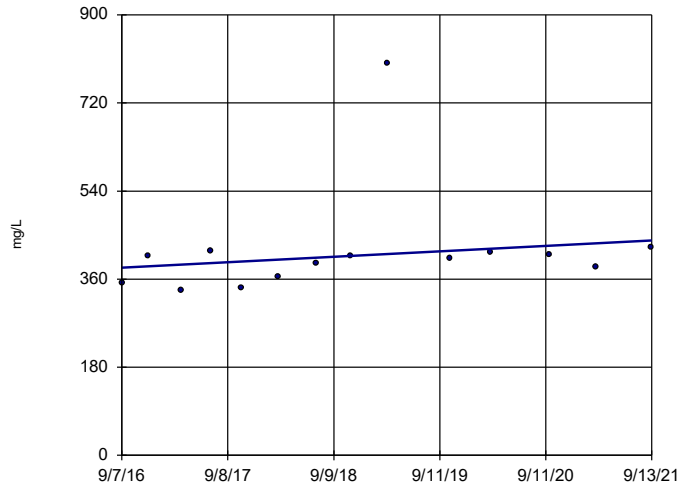
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-11



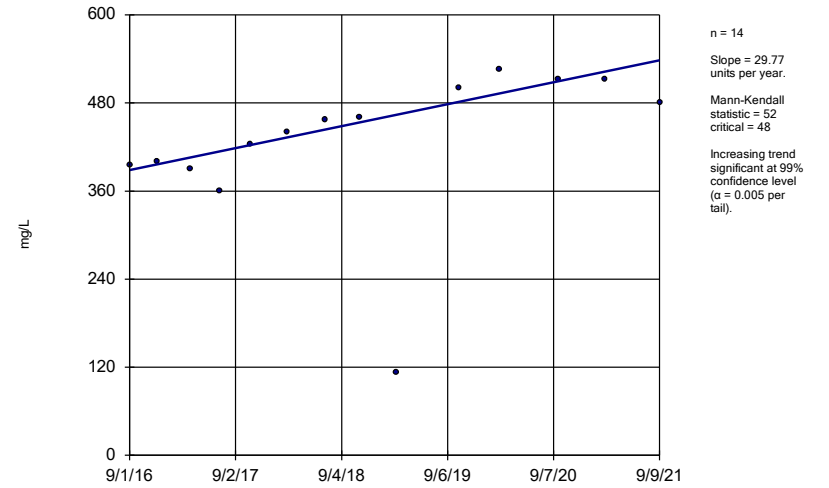
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-17



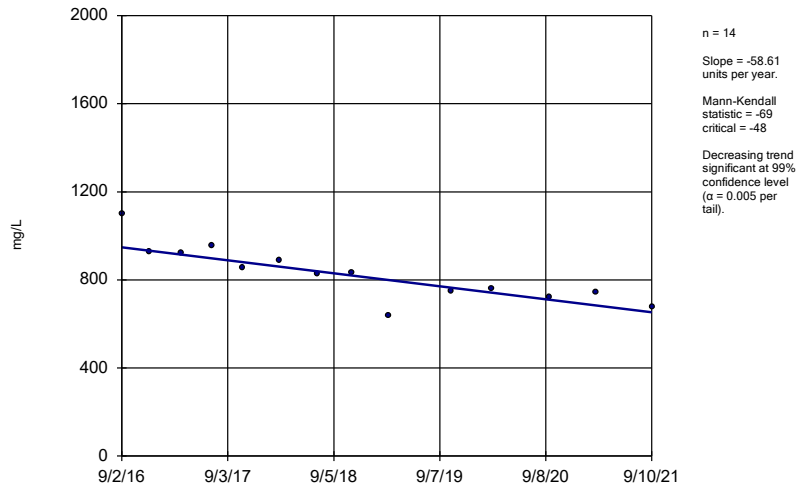
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-19



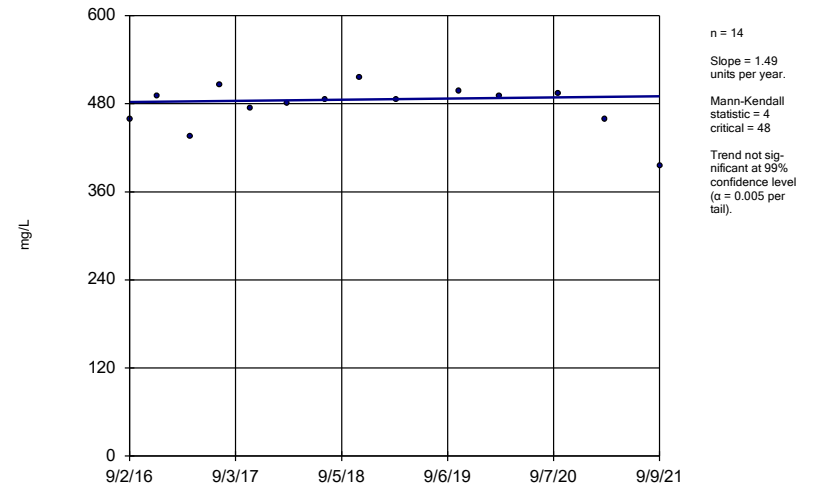
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-20



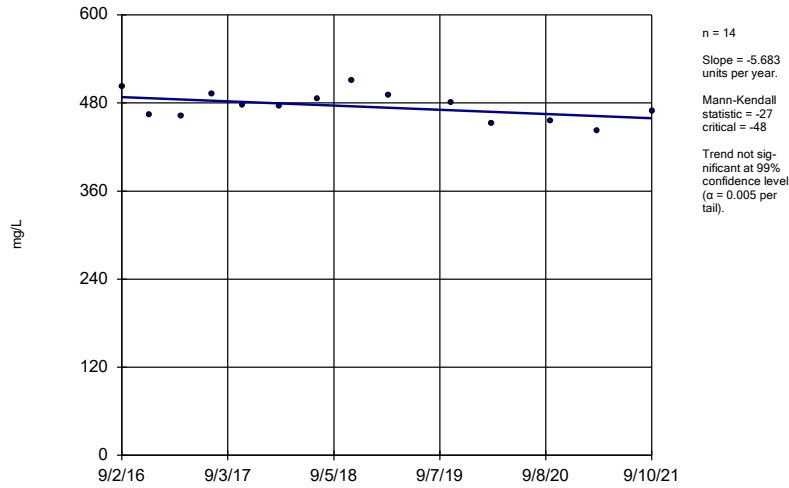
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-21



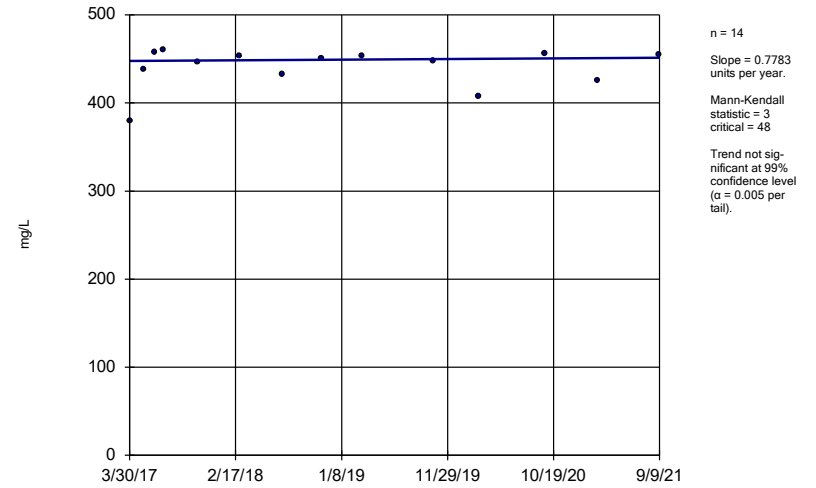
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-22



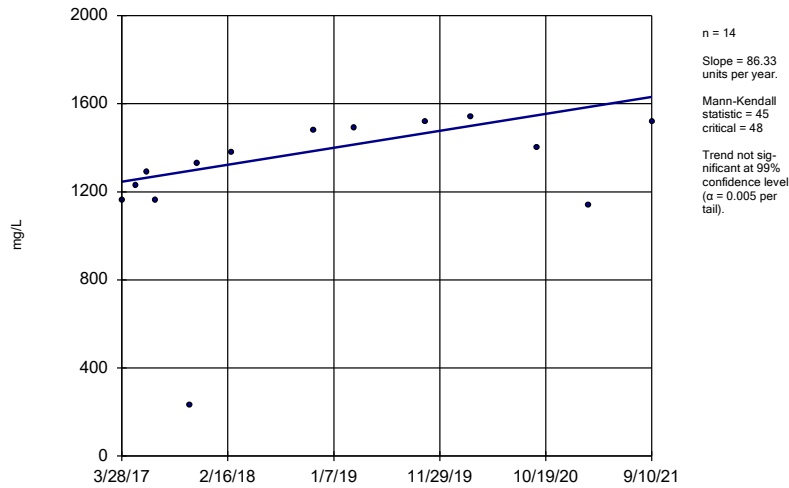
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-23



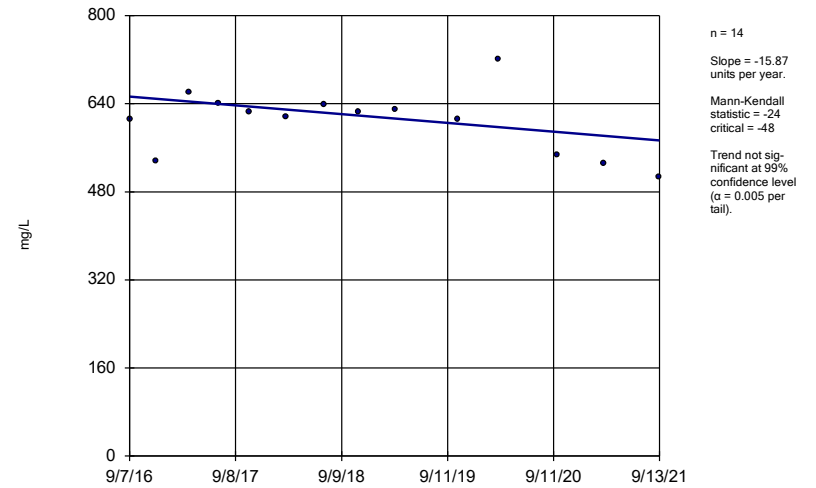
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-4



Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

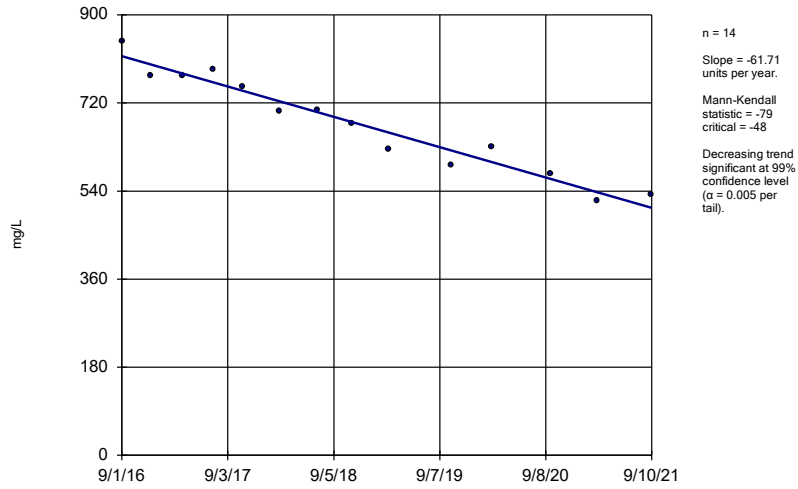
Sen's Slope Estimator  
DGWC-42



Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

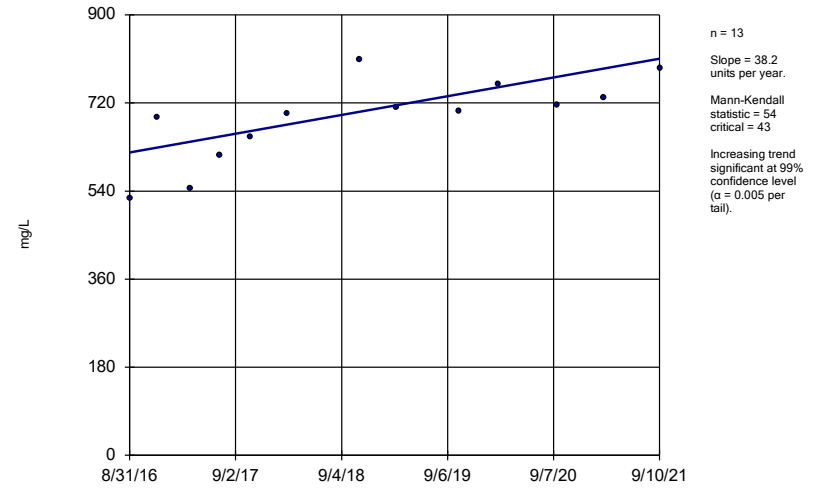
DGWC-48



Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

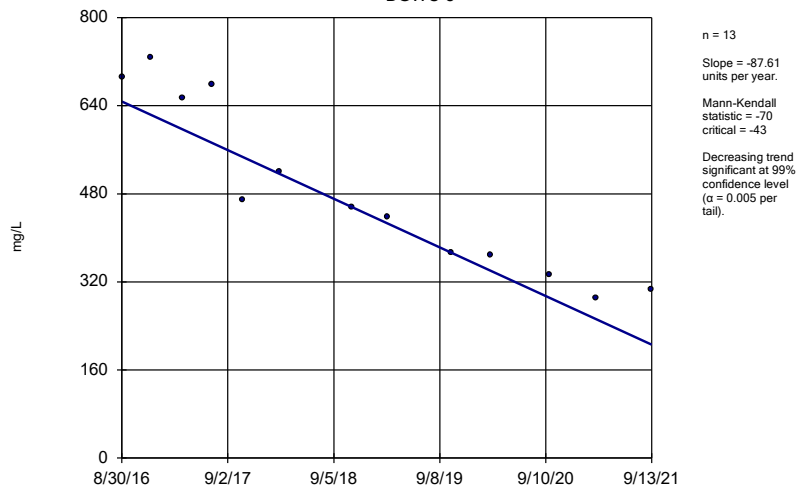
DGWC-5



Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

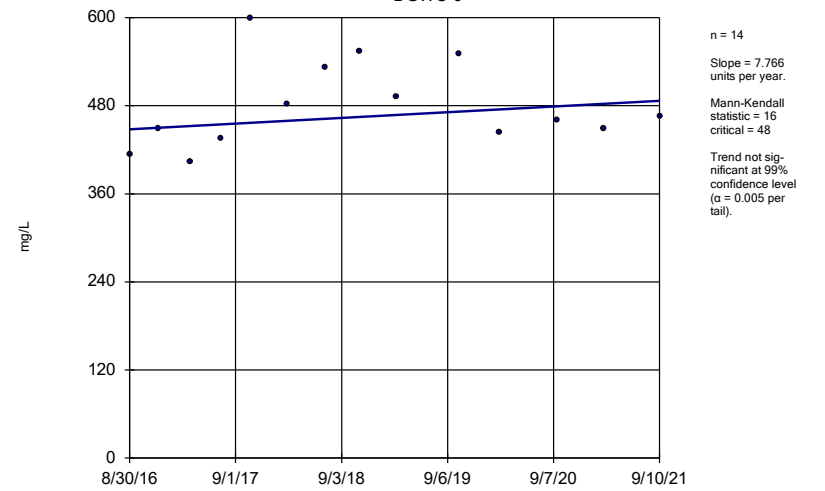
DGWC-8



Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-9



Constituent: Total Dissolved Solids [TDS] Analysis Run 2/25/2022 7:25 AM View: AP 234 Appendix III Tre  
 Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE F.

# Upper Tolerance Limits Summary Table

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 1:23 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	44	n/a	n/a	79.55	n/a	n/a	0.1047	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	44	n/a	n/a	81.82	n/a	n/a	0.1047	NP Inter(NDs)
Barium (mg/L)	n/a	0.19	n/a	n/a	n/a	44	n/a	n/a	0	n/a	n/a	0.1047	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0009	n/a	n/a	n/a	45	n/a	n/a	62.22	n/a	n/a	0.09944	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	44	n/a	n/a	93.18	n/a	n/a	0.1047	NP Inter(NDs)
Chromium (mg/L)	n/a	0.005	n/a	n/a	n/a	43	n/a	n/a	60.47	n/a	n/a	0.1102	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0322	n/a	n/a	n/a	44	n/a	n/a	36.36	n/a	n/a	0.1047	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	5.605	n/a	n/a	n/a	46	1.041	0.3523	0	None	x^(1/3)	0.05	Inter
Fluoride, total (mg/L)	n/a	0.42	n/a	n/a	n/a	48	n/a	n/a	52.08	n/a	n/a	0.08526	NP Inter(NDs)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	44	n/a	n/a	79.55	n/a	n/a	0.1047	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	44	n/a	n/a	36.36	n/a	n/a	0.1047	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	44	n/a	n/a	86.36	n/a	n/a	0.1047	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.0409	n/a	n/a	n/a	44	n/a	n/a	63.64	n/a	n/a	0.1047	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	44	n/a	n/a	100	n/a	n/a	0.1047	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	44	n/a	n/a	95.45	n/a	n/a	0.1047	NP Inter(NDs)

FIGURE G.

<b>PLANT MCDONOUGH ASH POND 2,3,4 GWPS TABLE - FEDERAL</b>				
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>GWPS</b>
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.19	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		5.61	5.61
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.

<b>PLANT MCDONOUGH ASH POND 2,3,4 GWPS TABLE - STATE</b>				
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>GWPS</b>
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.19	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		5.61	5.61
Fluoride, Total (mg/L)	4		0.42	4
Lead, Total (mg/L)		0.015	0.001	0.001
Lithium, Total (mg/L)		0.04	0.03	0.03
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.041	0.041
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*\*Highlighted cells indicated Background is higher than MCLs or CCR-Rule*

*\*MCL = Maximum Contaminant Level*

*\*CCR = Coal Combustion Residual*

*\*GWPS = Groundwater Protection Standard*

FIGURE I.

# Federal Confidence Intervals - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.03003	0.0172	0.01	Yes	15	0.02361	0.009468	6.667	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009208	0.005678	0.004	Yes	14	0.007443	0.002492	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01281	0.009018	0.004	Yes	15	0.01091	0.002797	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009234	0.007526	0.004	Yes	15	0.00838	0.00126	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008688	0.006197	0.004	Yes	14	0.007443	0.001758	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005896	0.004931	0.004	Yes	15	0.005413	0.000712	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.01805	0.006467	0.004	Yes	5	0.01378	0.003942	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.1888	0.1413	0.032	Yes	14	0.1537	0.04866	0	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05331	0.04925	0.032	Yes	15	0.05128	0.002996	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6394	0.4659	0.032	Yes	15	0.5575	0.1355	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3858	0.253	0.032	Yes	15	0.3194	0.09792	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5073	0.402	0.032	Yes	15	0.4547	0.07771	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.0878	0.04412	0.032	Yes	14	0.06596	0.03083	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.201	0.1437	0.032	Yes	15	0.1724	0.04231	0	None	No	0.01	Param.
Cobalt (mg/L)	B-56	0.05421	0.03629	0.032	Yes	4	0.04525	0.003948	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.0547	0.0353	0.032	Yes	5	0.045	0.005788	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.069	0.0594	0.032	Yes	5	0.0642	0.002864	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-104D	21.26	6.892	5.61	Yes	4	14.08	3.164	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07457	0.05787	0.04	Yes	15	0.06622	0.01232	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1269	0.106	0.04	Yes	15	0.1165	0.01544	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-9	0.1308	0.05207	0.05	Yes	15	0.09144	0.0581	0	None	No	0.01	Param.

# Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	B-100	0.001954	0.001046	0.006	No	4	0.00225	0.0008813	50	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	B-102D	0.003	0.0016	0.006	No	4	0.00265	0.0007	75	Kaplan-Meier	No	0.0625	NP (NDs)
Antimony (mg/L)	B-104D	0.001068	0.0003847	0.006	No	4	0.00126	0.001169	25	Kaplan-Meier	x^(1/3)	0.01	Param.
Antimony (mg/L)	B-111D	0.003	0.0006	0.006	No	4	0.0024	0.0012	75	Kaplan-Meier	No	0.0625	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.00046	0.006	No	7	0.002637	0.00096	85.71	Kaplan-Meier	No	0.008	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.00066	0.006	No	4	0.002415	0.00117	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00036	0.006	No	6	0.001737	0.001387	50	None	No	0.0155	NP (normality)
Antimony (mg/L)	B-93	0.003	0.0014	0.006	No	4	0.0026	0.0008	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	16	0.002831	0.000675	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	15	0.002873	0.0004906	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	15	0.002671	0.0008724	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	15	0.00283	0.0006584	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.00036	0.006	No	15	0.002824	0.0006816	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	15	0.00284	0.0006197	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	15	0.002847	0.0005939	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No	14	0.002491	0.001014	78.57	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No	15	0.00288	0.0004648	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	15	0.002746	0.0007213	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	14	0.002701	0.0007935	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.00046	0.006	No	14	0.002819	0.0006788	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-104D	0.002881	0.001519	0.01	No	4	0.0036	0.001635	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-111D	0.003281	0.001919	0.01	No	4	0.0038	0.001407	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-56	0.0047	0.003	0.01	No	4	0.0035	0.0008042	0	None	No	0.0625	NP (normality)
Arsenic (mg/L)	B-77	0.002882	0.001869	0.01	No	6	0.003233	0.001409	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	B-93	0.003589	0.0004108	0.01	No	4	0.0035	0.001824	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-10	0.00717	0.003601	0.01	No	14	0.005386	0.002519	7.143	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	16	0.004452	0.001498	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	15	0.004693	0.00119	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	15	0.004169	0.001726	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0008	0.01	No	15	0.003395	0.002042	60	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.002035	0.0009847	0.01	No	15	0.002317	0.001551	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No	15	0.004566	0.00118	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01666	0.007499	0.01	No	15	0.01208	0.006761	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No	15	0.004733	0.001033	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0008	0.01	No	14	0.004057	0.001875	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	15	0.004453	0.001445	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.002647	0.001328	0.01	No	15	0.002627	0.001504	20	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.0008	0.01	No	15	0.003206	0.002005	53.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.0118	0.002817	0.01	No	14	0.008443	0.009971	14.29	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.005	0.0012	0.01	No	14	0.00369	0.001839	64.29	None	No	0.01	NP (NDs)
<b>Arsenic (mg/L)</b>	<b>DGWC-9</b>	<b>0.03003</b>	<b>0.0172</b>	<b>0.01</b>	<b>Yes</b>	<b>15</b>	<b>0.02361</b>	<b>0.009468</b>	<b>6.667</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Barium (mg/L)	B-100	0.022	0.015	2	No	4	0.02	0.003367	0	None	No	0.0625	NP (selected)
Barium (mg/L)	B-102D	0.02571	0.01829	2	No	4	0.022	0.001633	0	None	No	0.01	Param.
Barium (mg/L)	B-104D	0.026	0.021	2	No	4	0.0225	0.00238	0	None	No	0.0625	NP (normality)
Barium (mg/L)	B-111D	0.05204	0.01546	2	No	4	0.03375	0.008057	0	None	No	0.01	Param.
Barium (mg/L)	B-56	0.03185	0.02315	2	No	4	0.0275	0.001915	0	None	No	0.01	Param.
Barium (mg/L)	B-62	0.02758	0.01985	2	No	7	0.02371	0.003251	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.03208	0.01592	2	No	4	0.024	0.003559	0	None	No	0.01	Param.
Barium (mg/L)	B-66	0.01942	0.01508	2	No	4	0.01725	0.0009574	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.1255	0.08983	2	No	6	0.1077	0.01299	0	None	No	0.01	Param.

# Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	B-82	0.03301	0.01899	2	No	5	0.026	0.004183	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.05537	0.02029	2	No	5	0.0358	0.01158	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	B-88	0.02418	-0.01405	2	No	4	0.02025	0.002872	0	None	x^5	0.01	Param.
Barium (mg/L)	B-93	0.01892	0.01458	2	No	4	0.01675	0.0009574	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.02962	0.02305	2	No	14	0.02634	0.004637	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06644	0.05633	2	No	14	0.06139	0.007138	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03199	0.02415	2	No	16	0.02824	0.006231	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03292	0.02732	2	No	14	0.02908	0.007369	7.143	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06261	0.05787	2	No	15	0.06024	0.003493	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.05073	0.0443	2	No	15	0.04751	0.004744	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05635	0.04167	2	No	15	0.04901	0.01083	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02541	0.02177	2	No	15	0.02359	0.002686	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02268	0.02132	2	No	15	0.022	0.001	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01537	0.009179	2	No	15	0.01227	0.004566	6.667	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.024	2	No	15	0.02596	0.001505	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03773	0.03193	2	No	15	0.03483	0.004281	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.0236	0.01844	2	No	15	0.02113	0.004092	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03617	0.0322	2	No	14	0.03419	0.002802	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.0205	0.01622	2	No	15	0.01836	0.003153	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-47	0.01975	0.01597	2	No	15	0.01786	0.002794	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.01436	0.01298	2	No	15	0.01367	0.001016	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-5	0.01834	0.01649	2	No	13	0.01742	0.001247	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03806	0.02666	2	No	14	0.03236	0.008048	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.01623	0.01484	2	No	15	0.01553	0.00103	0	None	No	0.01	Param.
Beryllium (mg/L)	B-100	0.0006113	0.0002587	0.004	No	4	0.000435	0.00007767	0	None	No	0.01	Param.
Beryllium (mg/L)	B-102D	0.001543	0.0009569	0.004	No	4	0.00125	0.0001291	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.001785	0.0009153	0.004	No	4	0.00135	0.0001915	0	None	No	0.01	Param.
Beryllium (mg/L)	B-56	0.001385	0.001015	0.004	No	4	0.0012	0.00008165	0	None	No	0.01	Param.
Beryllium (mg/L)	B-62	0.0005	0.000078	0.004	No	8	0.0002085	0.000181	25	None	No	0.004	NP (normality)
Beryllium (mg/L)	B-63	0.0004803	0.0003037	0.004	No	6	0.00041	0.00007797	16.67	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	B-77	0.0001464	0.00004658	0.004	No	6	0.0002267	0.0002142	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Beryllium (mg/L)	B-82	0.001807	0.001073	0.004	No	5	0.00144	0.0002191	0	None	No	0.01	Param.
Beryllium (mg/L)	B-83	0.0006999	0.0001718	0.004	No	5	0.000404	0.000173	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	B-88	0.005	0.00063	0.004	No	4	0.002008	0.00202	0	None	No	0.0625	NP (selected)
<b>Beryllium (mg/L)</b>	<b>B-93</b>	<b>0.01805</b>	<b>0.006467</b>	<b>0.004</b>	<b>Yes</b>	<b>5</b>	<b>0.01378</b>	<b>0.003942</b>	<b>0</b>	<b>None</b>	<b>x^3</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	B-97	0.0019	0.0015	0.004	No	4	0.001725	0.0002062	25	None	No	0.0625	NP (selected)
Beryllium (mg/L)	B-98	0.00087	0.0005	0.004	No	4	0.0005925	0.000185	75	None	No	0.0625	NP (NDs)
<b>Beryllium (mg/L)</b>	<b>DGWC-10</b>	<b>0.009208</b>	<b>0.005678</b>	<b>0.004</b>	<b>Yes</b>	<b>14</b>	<b>0.007443</b>	<b>0.002492</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	DGWC-11	0.003	0.00013	0.004	No	14	0.0004964	0.0007432	50	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00049	0.00011	0.004	No	16	0.0003943	0.0007051	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No	14	0.0005256	0.000742	64.29	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	15	0.0006185	0.0006715	86.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.0006188	0.0005265	0.004	No	15	0.0005727	0.00006808	13.33	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-19	0.0021	0.0017	0.004	No	15	0.001907	0.0004978	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-20	0.004866	0.002215	0.004	No	15	0.003673	0.002056	13.33	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0005	0.0001	0.004	No	15	0.000374	0.0007325	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.0005	0.00014	0.004	No	15	0.000376	0.0007316	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	15	0.000618	0.0006665	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00028	0.00019	0.004	No	14	0.0004279	0.0007463	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002738	0.002049	0.004	No	15	0.002333	0.0006576	6.667	None	x^2	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>DGWC-47</b>	<b>0.01281</b>	<b>0.009018</b>	<b>0.004</b>	<b>Yes</b>	<b>15</b>	<b>0.01091</b>	<b>0.002797</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>

# Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
<b>Beryllium (mg/L)</b>	<b>DGWC-48</b>	<b>0.009234</b>	<b>0.007526</b>	<b>0.004</b>	<b>Yes 15</b>	<b>0.00838</b>	<b>0.00126</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Beryllium (mg/L)</b>	<b>DGWC-5</b>	<b>0.008688</b>	<b>0.006197</b>	<b>0.004</b>	<b>Yes 14</b>	<b>0.007443</b>	<b>0.001758</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	DGWC-8	0.003201	0.001685	0.004	No 14	0.002443	0.00107	7.143	None	No	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>DGWC-9</b>	<b>0.005896</b>	<b>0.004931</b>	<b>0.004</b>	<b>Yes 15</b>	<b>0.005413</b>	<b>0.000712</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cadmium (mg/L)	B-100	0.00059	0.00027	0.005	No 4	0.000355	0.000157	0	None	No	0.0625	NP (normality)
Cadmium (mg/L)	B-102D	0.0009243	0.0006021	0.005	No 4	0.0007775	0.00007274	0	None	x^2	0.01	Param.
Cadmium (mg/L)	B-56	0.0003178	0.0002172	0.005	No 4	0.0002675	0.00002217	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0003199	0.00007013	0.005	No 4	0.0003475	0.0001817	50	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	B-82	0.0007939	0.0002981	0.005	No 5	0.000546	0.0001479	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0004307	0.0002333	0.005	No 5	0.000332	0.00005891	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.008758	-0.003848	0.005	No 4	0.002455	0.002776	0	None	No	0.01	Param.
Cadmium (mg/L)	B-93	0.0009316	0.0006384	0.005	No 4	0.000785	0.00006455	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001207	0.0008102	0.005	No 14	0.001009	0.0002801	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00016	0.005	No 14	0.0004221	0.0001549	78.57	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003426	0.0002257	0.005	No 16	0.0003944	0.0001917	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No 14	0.0004486	0.0001328	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00012	0.005	No 15	0.0004287	0.0002377	73.33	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.00033	0.00023	0.005	No 15	0.0002987	0.00009062	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.0005	0.00034	0.005	No 15	0.0004207	0.0001665	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.0002846	0.0001314	0.005	No 15	0.0003667	0.0002335	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-20	0.002238	0.001722	0.005	No 15	0.00198	0.0003802	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.0007418	0.0004675	0.005	No 15	0.0006047	0.0002024	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0007017	0.0004543	0.005	No 15	0.000578	0.0001826	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0003	0.00019	0.005	No 15	0.0002967	0.0002115	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.0008282	0.0006103	0.005	No 14	0.0007193	0.0001538	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.001109	0.0004679	0.005	No 15	0.0008233	0.0005572	13.33	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.002181	0.001246	0.005	No 15	0.001713	0.0006896	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.0042	0.0025	0.005	No 15	0.003527	0.001682	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-5	0.0008175	0.0004382	0.005	No 14	0.0006279	0.0002677	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002516	0.00197	0.005	No 14	0.002243	0.0003857	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006732	0.0005032	0.005	No 15	0.0005927	0.0001373	13.33	None	x^(1/3)	0.01	Param.
Chromium (mg/L)	B-100	0.001223	0.0003828	0.1	No 4	0.002877	0.002456	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	B-104D	0.005	0.0011	0.1	No 4	0.004025	0.00195	75	Kaplan-Meier	No	0.0625	NP (NDs)
Chromium (mg/L)	B-56	0.001914	0.00007551	0.1	No 4	0.002997	0.002336	50	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	B-62	0.005	0.00098	0.1	No 7	0.004426	0.001519	85.71	Kaplan-Meier	No	0.008	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.00064	0.1	No 4	0.00391	0.00218	75	Kaplan-Meier	No	0.0625	NP (NDs)
Chromium (mg/L)	B-77	0.001858	0.0005328	0.1	No 6	0.00241	0.002072	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	B-82	0.005	0.0011	0.1	No 5	0.00422	0.001744	80	Kaplan-Meier	No	0.031	NP (NDs)
Chromium (mg/L)	B-83	0.0051	0.0017	0.1	No 5	0.00394	0.001524	0	None	No	0.031	NP (selected)
Chromium (mg/L)	B-88	0.002116	0.0005176	0.1	No 4	0.002237	0.001875	25	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	B-93	0.005	0.00057	0.1	No 4	0.002807	0.002532	50	None	No	0.0625	NP (normality)
Chromium (mg/L)	DGWC-10	0.005	0.00078	0.1	No 14	0.002321	0.002074	35.71	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.0006	0.1	No 14	0.003742	0.002064	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No 16	0.004496	0.001378	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.005	0.00074	0.1	No 14	0.003778	0.002006	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.00058	0.1	No 15	0.004423	0.002397	73.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0035	0.0024	0.1	No 15	0.003047	0.0008651	13.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.005	0.0023	0.1	No 15	0.00342	0.002022	20	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.0005	0.1	No 15	0.003211	0.002268	60	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.002136	0.001443	0.1	No 15	0.003467	0.002385	40	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	DGWC-21	0.005	0.0005	0.1	No 15	0.00333	0.002148	60	Kaplan-Meier	No	0.01	NP (NDs)

# Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	15	0.004747	0.0009812	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0005	0.1	No	15	0.002187	0.002075	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	14	0.004679	0.001203	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.0005	0.1	No	15	0.003082	0.002157	53.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	15	0.004713	0.00111	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	15	0.004407	0.001567	86.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	14	0.004675	0.001216	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.005	0.00086	0.1	No	14	0.003391	0.002002	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.0057	0.00059	0.1	No	15	0.003593	0.002173	60	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.087	0.029	0.032	No	6	0.058	0.02804	0	None	No	0.0155	NP (selected)
Cobalt (mg/L)	B-102D	0.01585	0.01215	0.032	No	4	0.014	0.0008165	0	None	No	0.01	Param.
Cobalt (mg/L)	B-104D	0.2361	-0.01451	0.032	No	4	0.1625	0.04272	0	None	x^2	0.01	Param.
Cobalt (mg/L)	B-111D	0.0009228	0.0004439	0.032	No	4	0.00112	0.0009256	25	Kaplan-Meier	x^(1/3)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>B-56</b>	<b>0.05421</b>	<b>0.03629</b>	<b>0.032</b>	<b>Yes</b>	<b>4</b>	<b>0.04525</b>	<b>0.003948</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-62	0.0025	0.0003	0.032	No	7	0.001873	0.001071	71.43	None	No	0.008	NP (NDs)
<b>Cobalt (mg/L)</b>	<b>B-63</b>	<b>0.0547</b>	<b>0.0353</b>	<b>0.032</b>	<b>Yes</b>	<b>5</b>	<b>0.045</b>	<b>0.005788</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-66	0.01241	0.003754	0.032	No	5	0.00758	0.003665	20	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-77	0.0031	0.0004	0.032	No	6	0.001817	0.0009725	16.67	None	No	0.0155	NP (selected)
Cobalt (mg/L)	B-82	0.007804	0.0003291	0.032	No	6	0.004067	0.002721	0	None	No	0.01	Param.
Cobalt (mg/L)	B-83	0.021	0.0073	0.032	No	5	0.01344	0.005791	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-88	0.022	0.0015	0.032	No	5	0.00928	0.009906	0	None	No	0.031	NP (selected)
<b>Cobalt (mg/L)</b>	<b>B-93</b>	<b>0.069</b>	<b>0.0594</b>	<b>0.032</b>	<b>Yes</b>	<b>5</b>	<b>0.0642</b>	<b>0.002864</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-10</b>	<b>0.1888</b>	<b>0.1413</b>	<b>0.032</b>	<b>Yes</b>	<b>14</b>	<b>0.1537</b>	<b>0.04866</b>	<b>0</b>	<b>None</b>	<b>x^4</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-11	0.0025	0.0006	0.032	No	14	0.001481	0.0009221	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.013	0.0021	0.032	No	16	0.008125	0.009711	12.5	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-13	0.0025	0.0005	0.032	No	14	0.002056	0.0008832	78.57	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0028	0.0016	0.032	No	15	0.003653	0.005947	6.667	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02716	0.02022	0.032	No	15	0.02313	0.00641	6.667	None	x^2	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-19</b>	<b>0.05331</b>	<b>0.04925</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.05128</b>	<b>0.002996</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-2	0.0284	0.0062	0.032	No	15	0.01761	0.01155	0	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>DGWC-20</b>	<b>0.6394</b>	<b>0.4659</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.5575</b>	<b>0.1355</b>	<b>0</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-21	0.009773	0.008552	0.032	No	15	0.00862	0.002141	13.33	None	x^6	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009945	0.007492	0.032	No	15	0.008533	0.002244	13.33	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.005	0.00039	0.032	No	15	0.00183	0.001357	60	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-4	0.0021	0.0015	0.032	No	14	0.002021	0.000904	14.29	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.04451	0.01723	0.032	No	15	0.03087	0.02013	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-47</b>	<b>0.3858</b>	<b>0.253</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.3194</b>	<b>0.09792</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-48</b>	<b>0.5073</b>	<b>0.402</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.4547</b>	<b>0.07771</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-5	0.04	0.02	0.032	No	14	0.02794	0.01109	0	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>DGWC-8</b>	<b>0.0878</b>	<b>0.04412</b>	<b>0.032</b>	<b>Yes</b>	<b>14</b>	<b>0.06596</b>	<b>0.03083</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-9</b>	<b>0.201</b>	<b>0.1437</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.1724</b>	<b>0.04231</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Combined Radium 226 + 228 (pCi/L)	B-100	1.4	0.168	5.61	No	4	0.7853	0.5031	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-102D	1.74	0.635	5.61	No	4	1.096	0.4956	0	None	No	0.0625	NP (selected)
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>B-104D</b>	<b>21.26</b>	<b>6.892</b>	<b>5.61</b>	<b>Yes</b>	<b>4</b>	<b>14.08</b>	<b>3.164</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Combined Radium 226 + 228 (pCi/L)	B-111D	16.31	1.377	5.61	No	4	8.843	3.288	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-56	1.617	0.5846	5.61	No	4	1.101	0.2275	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	2.02	1.173	5.61	No	6	1.597	0.3082	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-77	2.17	0.617	5.61	No	5	1.516	0.7658	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-82	1.18	0.3541	5.61	No	4	0.7673	0.182	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-83	1.15	0.0359	5.61	No	5	0.674	0.4409	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-88	2.84	0.771	5.61	No	4	1.752	1.056	0	None	No	0.0625	NP (selected)



# Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	B-93	2.371	0.3074	5.61	No 4	1.339	0.4544	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.497	1.071	5.61	No 15	1.284	0.314	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.272	0.6667	5.61	No 15	0.9694	0.4467	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.27	0.4013	5.61	No 15	0.8984	0.714	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.484	1.036	5.61	No 15	1.26	0.3303	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.103	0.6919	5.61	No 15	0.8972	0.303	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.553	0.551	5.61	No 15	1.118	0.8748	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	1.05	0.5723	5.61	No 15	0.8113	0.3526	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	1.04	0.5062	5.61	No 15	0.7733	0.3942	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.444	0.8924	5.61	No 15	1.168	0.4067	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.543	0.8767	5.61	No 15	1.21	0.4913	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.125	0.5866	5.61	No 15	0.8557	0.3972	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.364	0.733	5.61	No 15	1.049	0.4659	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.489	0.7765	5.61	No 15	1.133	0.5259	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.721	1.187	5.61	No 15	1.454	0.3939	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.169	0.7309	5.61	No 15	0.9499	0.3231	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	2.903	1.785	5.61	No 15	2.344	0.8249	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.415	1.602	5.61	No 15	2.03	0.6435	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.839	1.024	5.61	No 15	1.431	0.6015	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.841	0.4794	5.61	No 15	0.6602	0.2668	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.439	0.9531	5.61	No 15	1.196	0.3583	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-102D	0.11	0.077	4	No 4	0.08725	0.01537	0	None	No	0.0625	NP (normality)
Fluoride, total (mg/L)	B-104D	0.5774	0.2326	4	No 4	0.405	0.07594	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-111D	0.7199	0.1451	4	No 4	0.4325	0.1266	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-56	0.34	0.098	4	No 4	0.207	0.09985	0	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-62	0.3546	0.06003	4	No 6	0.1855	0.1295	0	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	B-77	0.1	0.078	4	No 5	0.0948	0.00955	60	None	No	0.031	NP (NDs)
Fluoride, total (mg/L)	B-82	0.2	0.052	4	No 4	0.113	0.06226	50	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-83	0.1232	0.02857	4	No 5	0.0834	0.0317	20	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	B-93	0.3685	0.2815	4	No 4	0.325	0.01915	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-10	1.862	1.347	4	No 16	1.604	0.3955	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-11	0.1	0.052	4	No 15	0.0804	0.0261	60	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-12	0.1641	0.05529	4	No 16	0.1588	0.1448	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-13	0.2134	0.08589	4	No 15	0.157	0.1093	6.667	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-14	0.1	0.052	4	No 16	0.08588	0.02643	68.75	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-15	0.11	0.079	4	No 16	0.1054	0.04361	62.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-17	0.2722	0.09774	4	No 16	0.2039	0.1552	12.5	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-19	0.5135	0.1749	4	No 16	0.3713	0.313	6.25	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-2	0.28	0.052	4	No 16	0.1429	0.1586	37.5	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-20	0.9494	0.4006	4	No 16	0.675	0.4218	6.25	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-21	0.14	0.07	4	No 16	0.107	0.06664	62.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-22	0.13	0.09	4	No 16	0.1185	0.06532	50	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-23	0.2262	0.09243	4	No 16	0.1852	0.1558	6.25	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-4	0.17	0.082	4	No 16	0.1364	0.1776	68.75	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-42	0.1	0.06	4	No 16	0.0925	0.02176	87.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-47	1.146	0.5167	4	No 16	0.8313	0.4835	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-48	1.19	0.6114	4	No 16	0.9006	0.4445	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-5	0.7808	0.2378	4	No 15	0.5667	0.4567	6.667	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-8	0.4095	0.1193	4	No 15	0.2868	0.2338	13.33	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-9	1.391	0.9657	4	No 16	1.178	0.3265	0	None	No	0.01	Param.
Lead (mg/L)	B-100	0.0003036	0.00005528	0.015	No 4	0.0003695	0.0004235	25	Kaplan-Meier	sqrt(x)	0.01	Param.

# Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	B-102D	0.001	0.000037	0.015	No	4	0.0002865	0.0004758	25	None	No	0.0625	NP (normality)
Lead (mg/L)	B-104D	0.001	0.000051	0.015	No	4	0.0007628	0.0004745	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000051	0.015	No	4	0.0005273	0.0005459	50	None	No	0.0625	NP (normality)
Lead (mg/L)	B-56	0.0002854	0.00003627	0.015	No	4	0.0003528	0.0004355	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	B-63	0.001	0.000047	0.015	No	4	0.00053	0.0005428	50	None	No	0.0625	NP (normality)
Lead (mg/L)	B-77	0.0016	0.00021	0.015	No	6	0.0007367	0.000554	33.33	None	No	0.0155	NP (selected)
Lead (mg/L)	B-82	0.0001911	0.00004858	0.015	No	5	0.0004658	0.000489	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	B-83	0.001	0.000065	0.015	No	5	0.000455	0.0004634	20	None	No	0.031	NP (selected)
Lead (mg/L)	B-88	0.02767	0.00004865	0.015	No	4	0.00354	0.005647	25	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	B-93	0.001	0.00012	0.015	No	4	0.00056	0.0005081	50	None	No	0.0625	NP (normality)
Lead (mg/L)	DGWC-10	0.001	0.00011	0.015	No	14	0.0006273	0.0004481	57.14	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.0001	0.015	No	14	0.0006785	0.0004481	64.29	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.001	0.00011	0.015	No	16	0.0008881	0.0003057	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.015	No	14	0.0008784	0.0003097	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.015	No	15	0.0008149	0.0003834	80	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.0012	0.0001	0.015	No	15	0.0007161	0.0004487	60	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.00009	0.015	No	15	0.0005862	0.0004585	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00007	0.015	No	15	0.0007059	0.0004334	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.000086	0.015	No	15	0.0005156	0.0004693	46.67	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-20	0.001	0.00015	0.015	No	15	0.0007311	0.0003691	60	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.00014	0.015	No	15	0.0006177	0.0004296	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.015	No	15	0.0009377	0.0002412	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.00012	0.015	No	14	0.0007478	0.0004149	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0004678	0.0001549	0.015	No	15	0.0008147	0.001228	20	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.0011	0.00053	0.015	No	15	0.001081	0.001106	26.67	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.0022	0.00095	0.015	No	15	0.001664	0.001169	13.33	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.001	0.000051	0.015	No	14	0.0005984	0.0006777	35.71	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.001	0.00011	0.015	No	14	0.0006273	0.0004132	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-9	0.001	0.00028	0.015	No	15	0.00084	0.0003323	80	None	No	0.01	NP (NDs)
Lithium (mg/L)	B-100	0.003519	0.0007815	0.04	No	4	0.00215	0.0006028	0	None	No	0.01	Param.
Lithium (mg/L)	B-102D	0.01666	0.009844	0.04	No	4	0.01325	0.0015	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.04121	0.03479	0.04	No	4	0.038	0.001414	0	None	No	0.01	Param.
Lithium (mg/L)	B-111D	0.029	0.021	0.04	No	4	0.02475	0.004349	0	None	No	0.0625	NP (selected)
Lithium (mg/L)	B-56	0.005968	0.004632	0.04	No	4	0.0053	0.0002944	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.015	0.0078	0.04	No	7	0.0094	0.002532	14.29	None	No	0.008	NP (normality)
Lithium (mg/L)	B-63	0.015	0.0062	0.04	No	5	0.00812	0.003849	20	None	No	0.031	NP (normality)
Lithium (mg/L)	B-77	0.015	0.00095	0.04	No	6	0.004525	0.005339	16.67	None	No	0.0155	NP (selected)
Lithium (mg/L)	B-82	0.0039	0.001	0.04	No	5	0.00222	0.001422	0	None	No	0.031	NP (selected)
Lithium (mg/L)	B-83	0.004551	0.0009685	0.04	No	5	0.00276	0.001069	0	None	No	0.01	Param.
Lithium (mg/L)	B-88	0.029	0.0016	0.04	No	4	0.009575	0.01311	0	None	No	0.0625	NP (selected)
Lithium (mg/L)	B-93	0.012	0.011	0.04	No	4	0.01125	0.0005	0	None	No	0.0625	NP (normality)
Lithium (mg/L)	DGWC-10	0.006793	0.002702	0.04	No	14	0.005343	0.004279	14.29	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.04	No	14	0.003186	0.003418	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.0011	0.04	No	16	0.01064	0.006685	68.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.0036	0.0029	0.04	No	14	0.004879	0.004297	14.29	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0032	0.04	No	15	0.00472	0.003078	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0066	0.0058	0.04	No	14	0.00625	0.0008465	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.00096	0.04	No	15	0.009434	0.007057	60	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0035	0.003	0.04	No	15	0.003993	0.003053	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.085	0.023	0.04	No	15	0.04906	0.03031	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.04	No	15	0.006407	0.005611	6.667	None	No	0.01	NP (normality)

# Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	DGWC-21	0.0065	0.0057	0.04	No	15	0.00656	0.00236	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0046	0.0037	0.04	No	15	0.00484	0.002836	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.01279	0.003816	0.04	No	15	0.01165	0.01832	6.667	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-4	0.0035	0.0025	0.04	No	14	0.003786	0.003256	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01268	0.01007	0.04	No	15	0.01137	0.001928	6.667	None	No	0.01	Param.
<b>Lithium (mg/L)</b>	<b>DGWC-47</b>	<b>0.07457</b>	<b>0.05787</b>	<b>0.04</b>	<b>Yes</b>	<b>15</b>	<b>0.06622</b>	<b>0.01232</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>DGWC-48</b>	<b>0.1269</b>	<b>0.106</b>	<b>0.04</b>	<b>Yes</b>	<b>15</b>	<b>0.1165</b>	<b>0.01544</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	DGWC-5	0.008199	0.004206	0.04	No	14	0.006343	0.003062	7.143	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	DGWC-8	0.0072	0.0045	0.04	No	14	0.006036	0.002823	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-9	0.02931	0.02328	0.04	No	15	0.02629	0.004445	6.667	None	No	0.01	Param.
Mercury (mg/L)	B-104D	0.0002	0.000079	0.002	No	4	0.0001697	0.0000605	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.000094	0.002	No	4	0.0001735	0.000053	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-56	0.0002	0.00016	0.002	No	4	0.00019	0.00002	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No	5	0.000182	0.00004025	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.0001	0.002	No	4	0.0001525	0.000055	50	None	No	0.0625	NP (normality)
Mercury (mg/L)	B-93	0.00036	0.00001396	0.002	No	4	0.000187	0.00007622	0	None	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0002	0.000081	0.002	No	14	0.0001658	0.00005628	71.43	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.0002	0.00008	0.002	No	14	0.0001707	0.0000585	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00008	0.002	No	16	0.0001541	0.00006456	62.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	14	0.0001829	0.00004375	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	15	0.0001727	0.00005688	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	15	0.0001907	0.00003615	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.00006	0.002	No	15	0.0001404	0.00006361	46.67	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-19	0.0002	0.00009	0.002	No	15	0.000172	0.00005882	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	15	0.0002049	0.0001304	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	15	0.0001767	0.00004835	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00006	0.002	No	15	0.000158	0.00006327	66.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.0001	0.002	No	15	0.0001677	0.00005729	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0002053	0.0001241	0.002	No	15	0.0001853	0.0000573	26.67	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-4	0.00059	0.00013	0.002	No	14	0.0002059	0.0001192	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	15	0.0001893	0.00004131	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	15	0.0001907	0.00003615	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002402	0.0001202	0.002	No	14	0.0001924	0.0001175	14.29	None	ln(x)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.000079	0.002	No	14	0.0001494	0.00006312	57.14	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.00021	0.00013	0.002	No	15	0.0001881	0.00008736	46.67	None	No	0.01	NP (normality)
Molybdenum (mg/L)	B-104D	0.01	0.0012	0.1	No	4	0.0078	0.0044	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	B-111D	0.01817	0.002799	0.1	No	4	0.00765	0.003615	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	B-66	0.01	0.0015	0.1	No	4	0.005825	0.004822	50	None	No	0.0625	NP (normality)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.1	No	4	0.0056	0.005081	50	None	No	0.0625	NP (normality)
Molybdenum (mg/L)	DGWC-13	0.0262	0.01302	0.1	No	14	0.01961	0.009301	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.0018	0.1	No	15	0.005093	0.004167	40	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01117	0.00682	0.1	No	15	0.008993	0.003208	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.007258	0.004757	0.1	No	14	0.006007	0.001765	7.143	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.0019	0.05	No	4	0.004225	0.00155	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-104D	0.004053	0.0006472	0.05	No	4	0.003675	0.001648	50	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	B-111D	0.005	0.0022	0.05	No	4	0.0043	0.0014	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-56	0.029	0.011	0.05	No	4	0.016	0.008718	0	None	No	0.0625	NP (normality)
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No	6	0.00445	0.001347	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0016	0.05	No	5	0.00374	0.001734	60	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-83	0.02981	0.006668	0.05	No	5	0.01824	0.006906	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.004472	0.0007278	0.05	No	4	0.0026	0.0008246	0	None	No	0.01	Param.

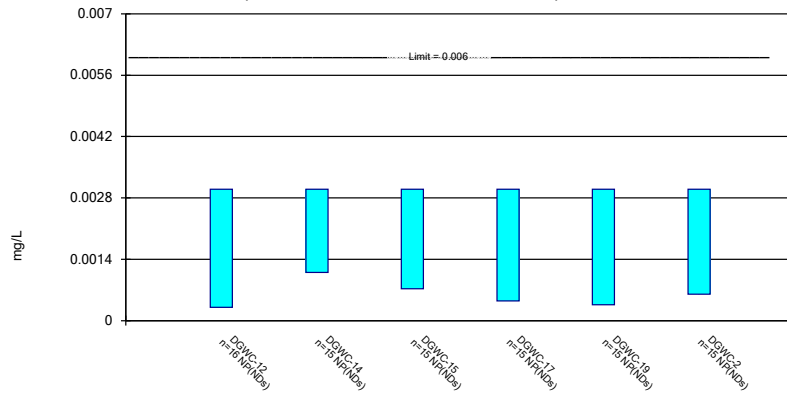
# Federal Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	B-93	0.036	0.0076	0.05	No	4	0.01788	0.01288	0	None	No	0.0625	NP (selected)
Selenium (mg/L)	DGWC-10	0.05289	0.02215	0.05	No	14	0.03752	0.0217	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0017	0.05	No	16	0.003931	0.002266	56.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004442	0.0019	0.05	No	14	0.004307	0.00244	21.43	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-14	0.01	0.0017	0.05	No	15	0.004227	0.002257	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	15	0.00512	0.001582	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.009189	0.006423	0.05	No	15	0.007953	0.002359	13.33	None	ln(x)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.008946	0.005774	0.05	No	15	0.00736	0.00234	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0053	0.0045	0.05	No	15	0.005193	0.001557	46.67	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06742	0.0338	0.05	No	15	0.05061	0.02481	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	15	0.00478	0.0008521	93.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	14	0.004743	0.0009621	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01301	0.005259	0.05	No	15	0.009133	0.005718	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.008046	0.003594	0.05	No	15	0.00582	0.003285	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.0457	0.00964	0.05	No	14	0.03263	0.04214	7.143	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.00408	0.002153	0.05	No	14	0.004586	0.002144	50	Kaplan-Meier	sqrt(x)	0.01	Param.
<b>Selenium (mg/L)</b>	<b>DGWC-9</b>	<b>0.1308</b>	<b>0.05207</b>	<b>0.05</b>	<b>Yes</b>	<b>15</b>	<b>0.09144</b>	<b>0.0581</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Thallium (mg/L)	B-56	0.0003212	0.0001238	0.002	No	4	0.0002225	0.00004349	0	None	No	0.01	Param.
Thallium (mg/L)	B-82	0.001	0.000099	0.002	No	5	0.0006418	0.0004905	60	None	No	0.031	NP (NDs)
Thallium (mg/L)	B-83	0.001	0.000072	0.002	No	5	0.0008144	0.000415	80	None	No	0.031	NP (NDs)
Thallium (mg/L)	B-88	0.001	0.0002	0.002	No	4	0.0008	0.0004	75	None	No	0.0625	NP (NDs)
Thallium (mg/L)	DGWC-10	0.0006	0.00036	0.002	No	14	0.0004907	0.0002285	14.29	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.00009	0.002	No	16	0.0006042	0.0004636	56.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00017	0.002	No	15	0.000398	0.0003761	26.67	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.00059	0.00049	0.002	No	15	0.000544	0.0001384	6.667	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.000988	0.0005219	0.002	No	15	0.000942	0.0004995	26.67	Kaplan-Meier	ln(x)	0.01	Param.
Thallium (mg/L)	DGWC-22	0.001	0.000064	0.002	No	15	0.0006889	0.0004554	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	14	0.0009338	0.0002478	92.86	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00009	0.002	No	15	0.0007559	0.000419	73.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00036	0.0002	0.002	No	15	0.0003513	0.0002684	13.33	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.00008	0.002	No	15	0.0006937	0.0004484	66.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.0002	0.002	No	14	0.00081	0.0003787	78.57	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	14	0.0003886	0.0003356	21.43	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.001	0.00043	0.002	No	15	0.0007027	0.0002443	33.33	None	No	0.01	NP (normality)

### Non-Parametric Confidence Interval

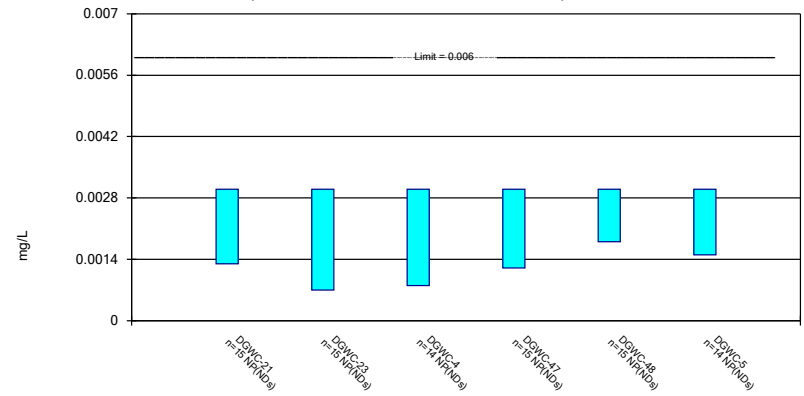
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

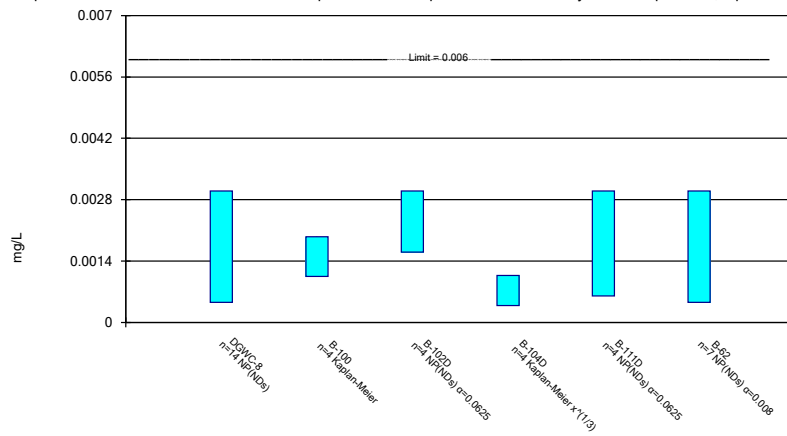
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

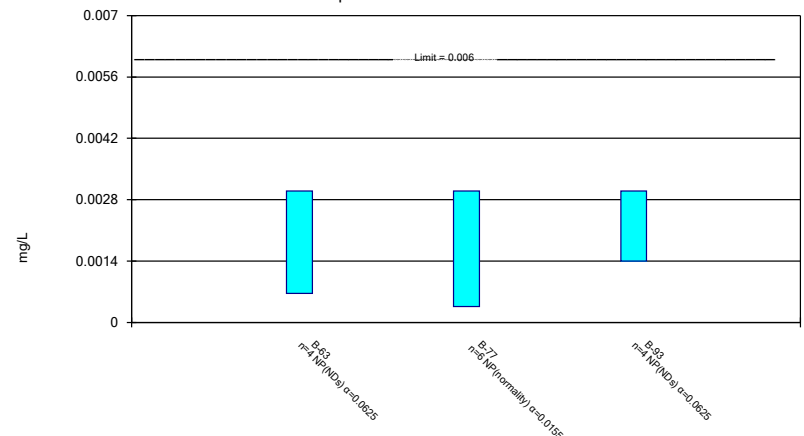
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

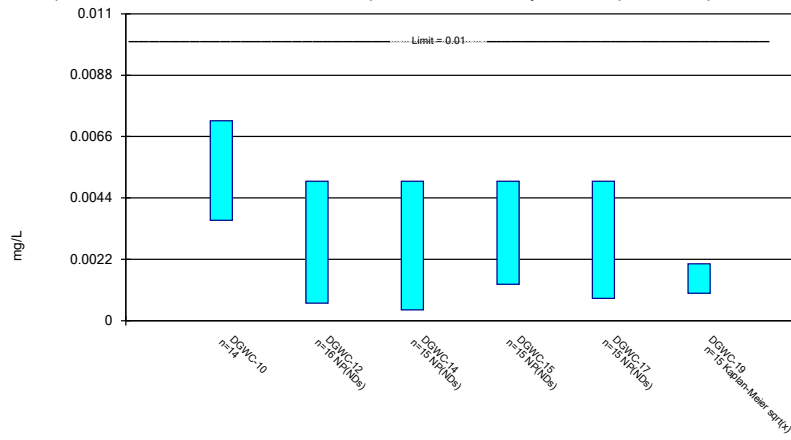
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

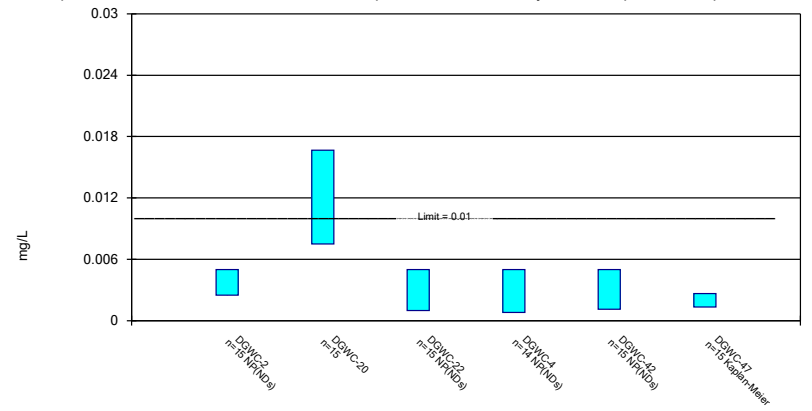
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

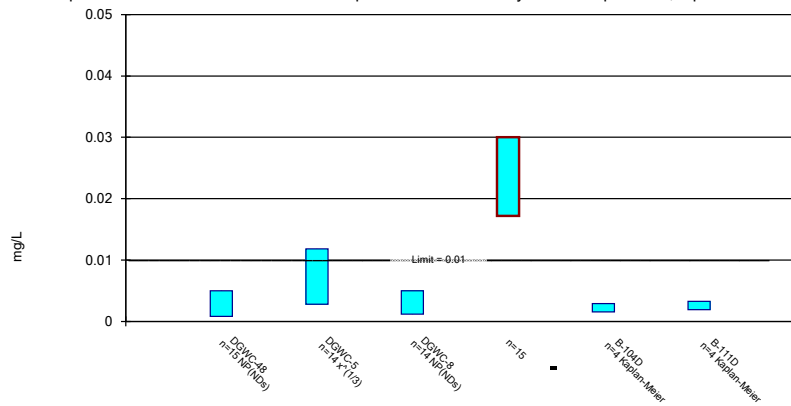
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

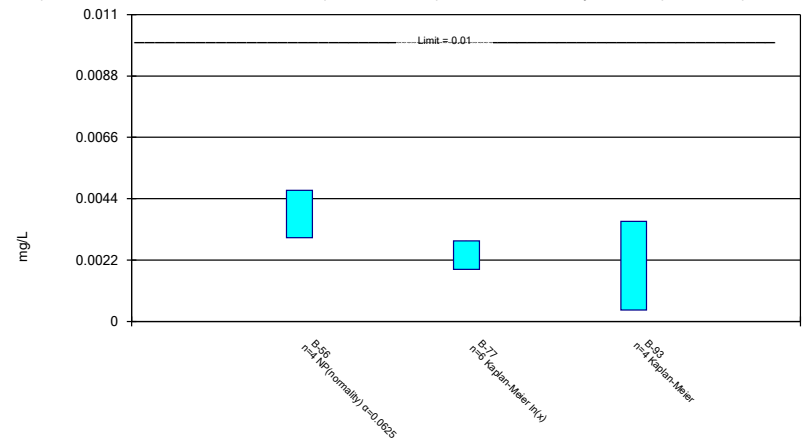
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

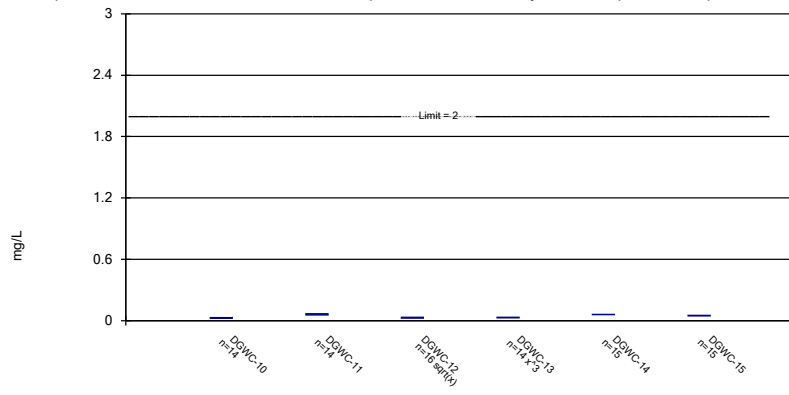
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

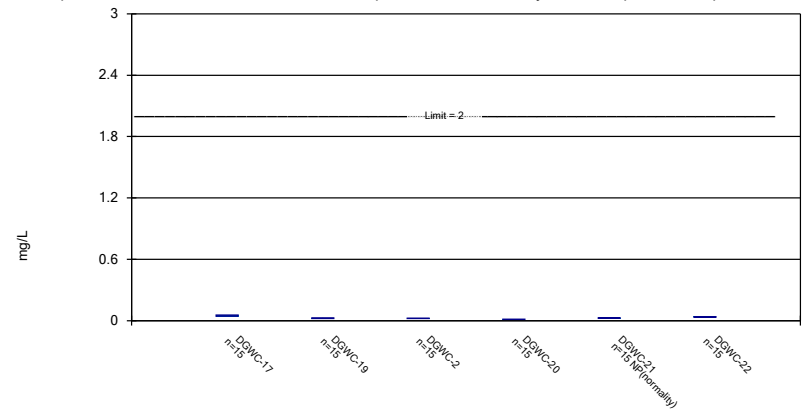
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

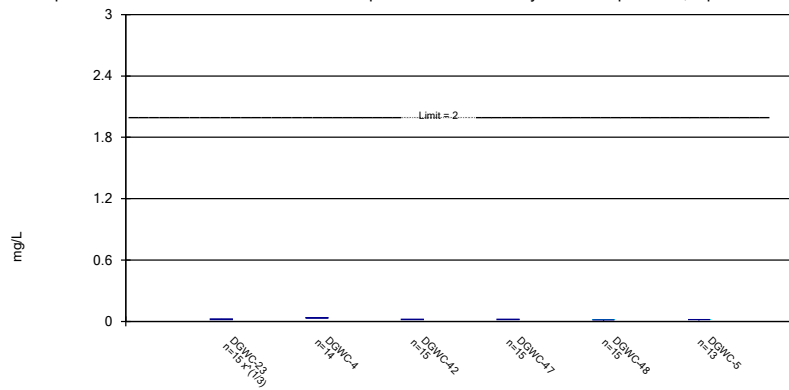
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

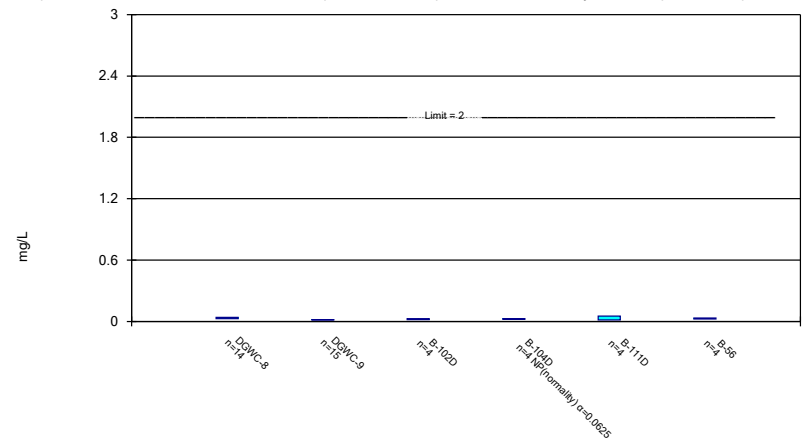
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

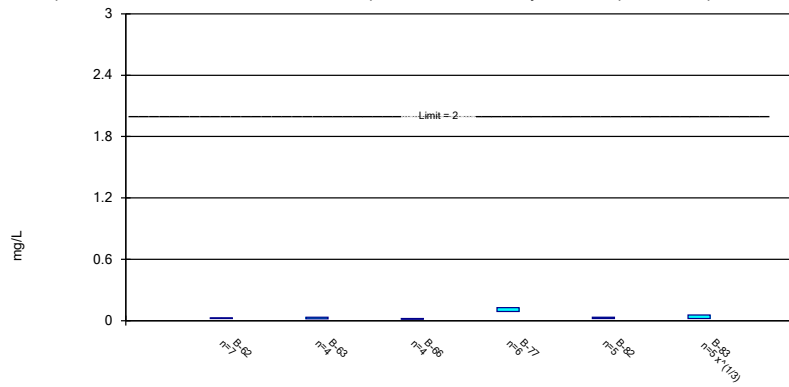
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

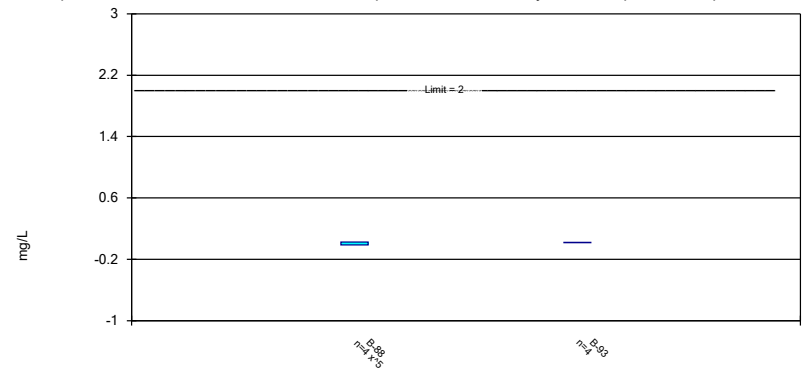
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

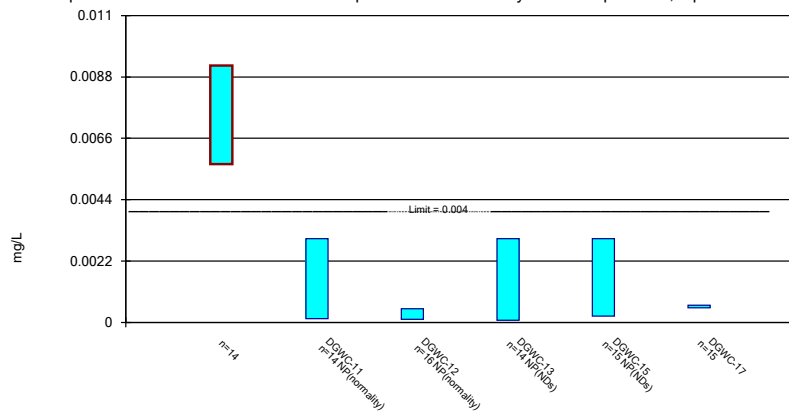
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

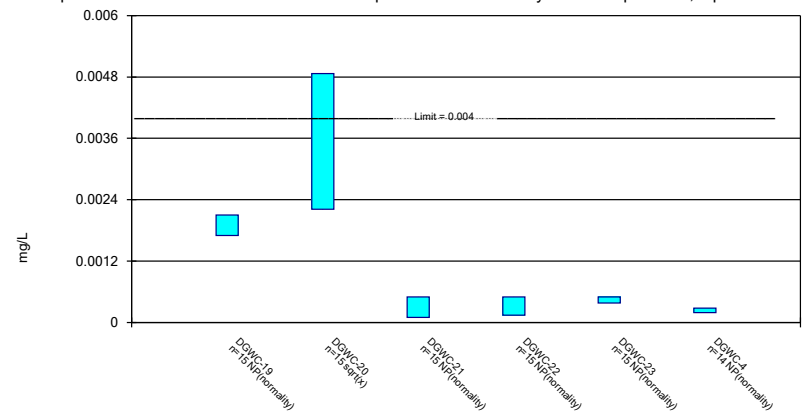
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/8/2021 2:40 PM 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.

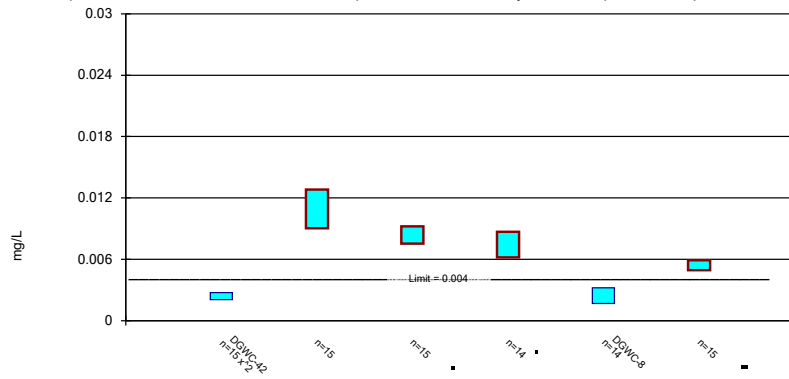


Constituent: Beryllium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP



### Parametric Confidence Interval

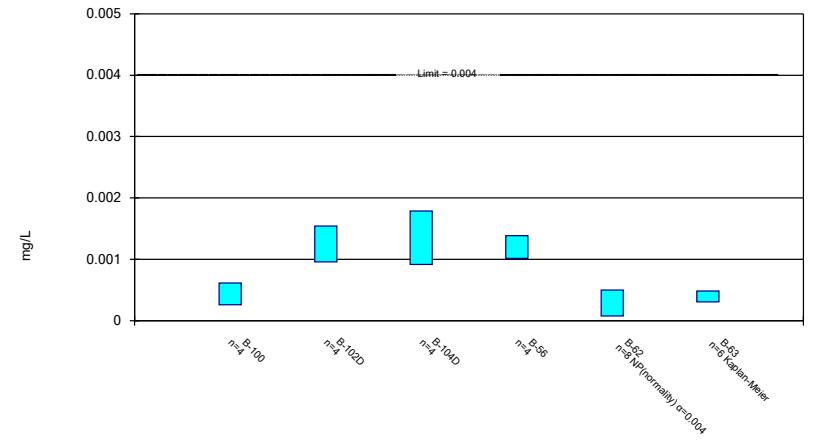
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

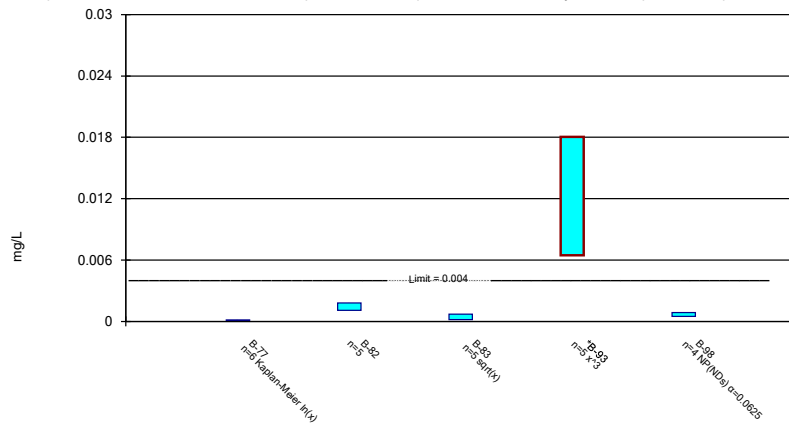
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Constituent: Beryllium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

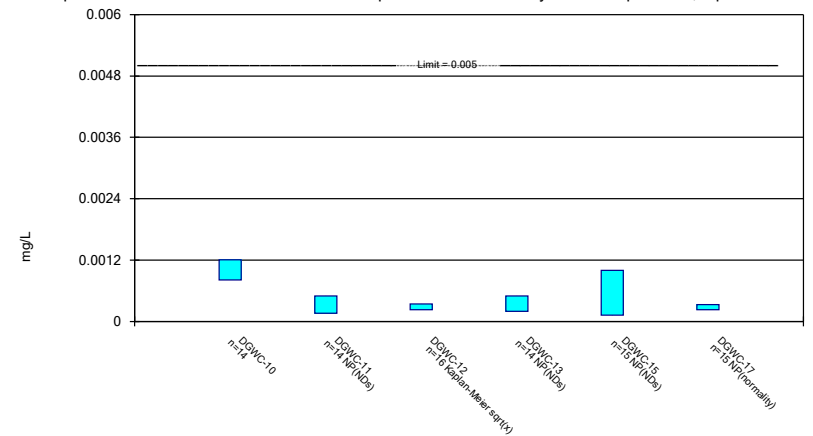
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

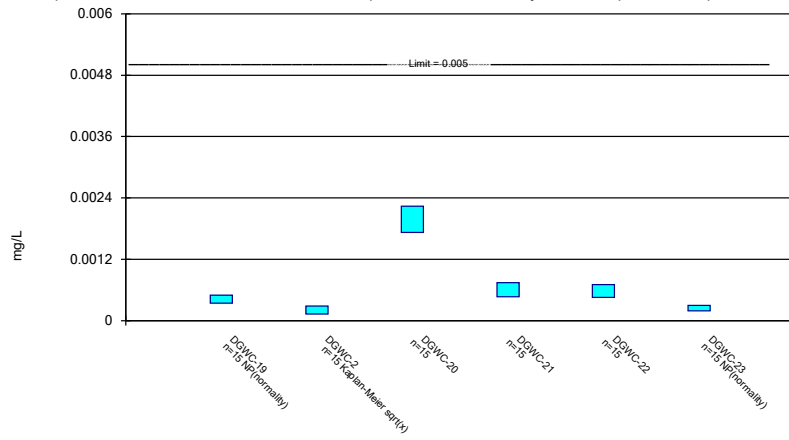
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

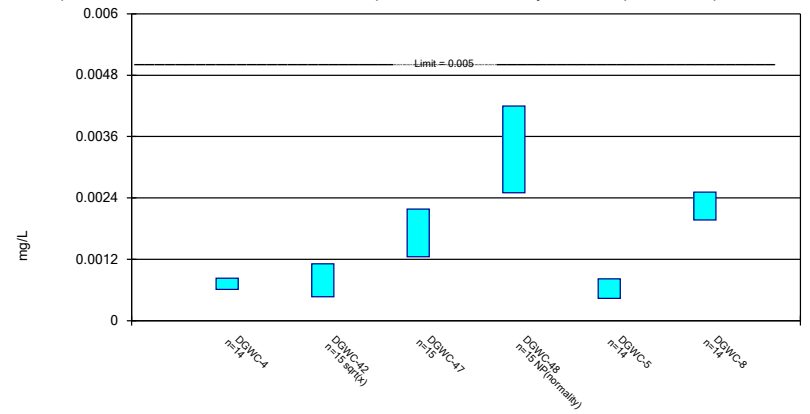
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

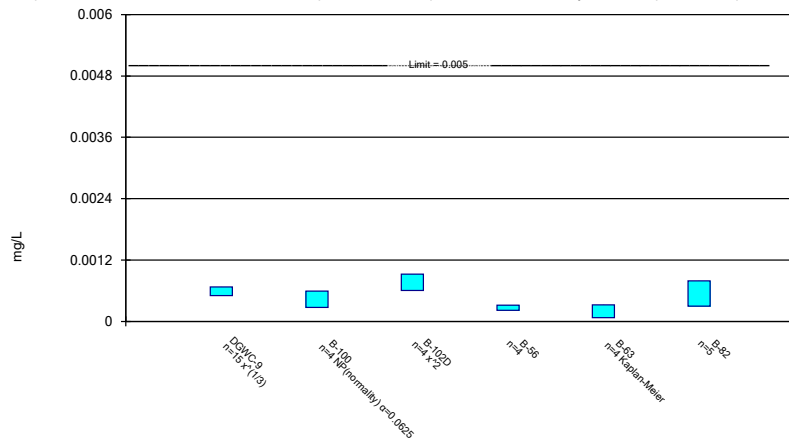
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

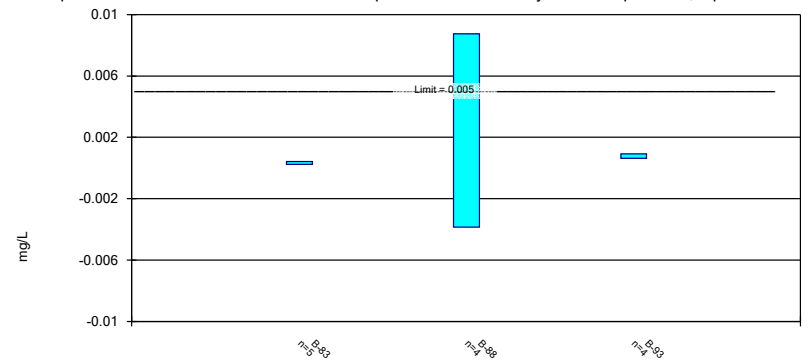
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

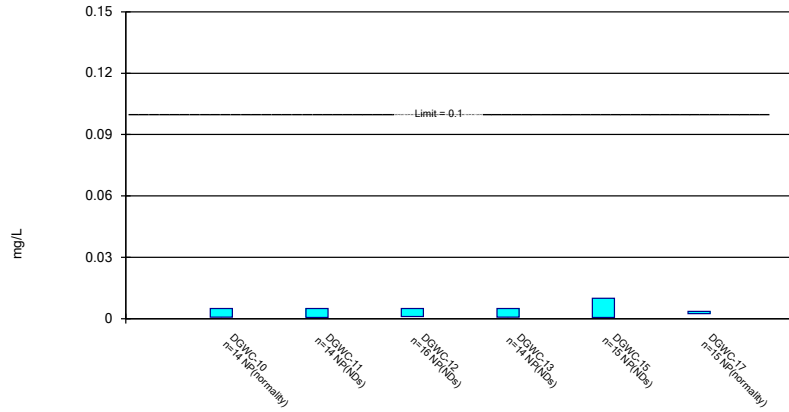
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

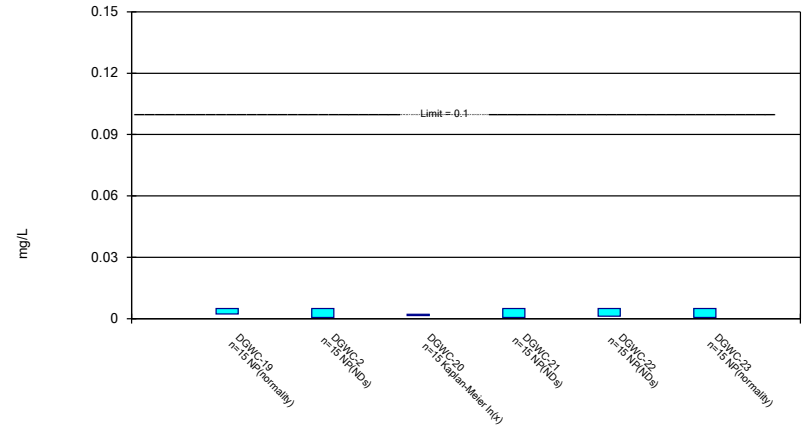
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

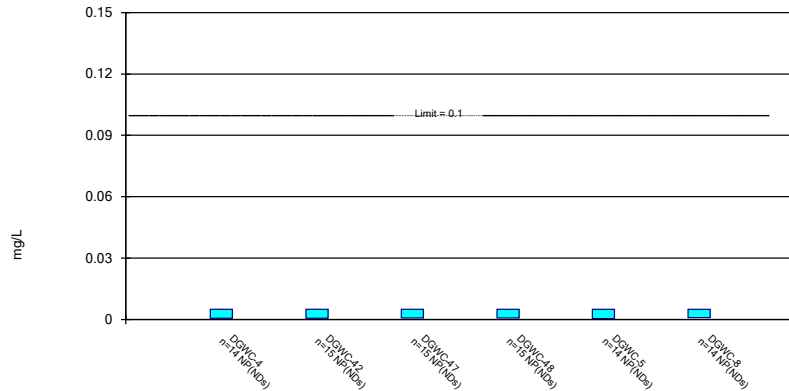
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

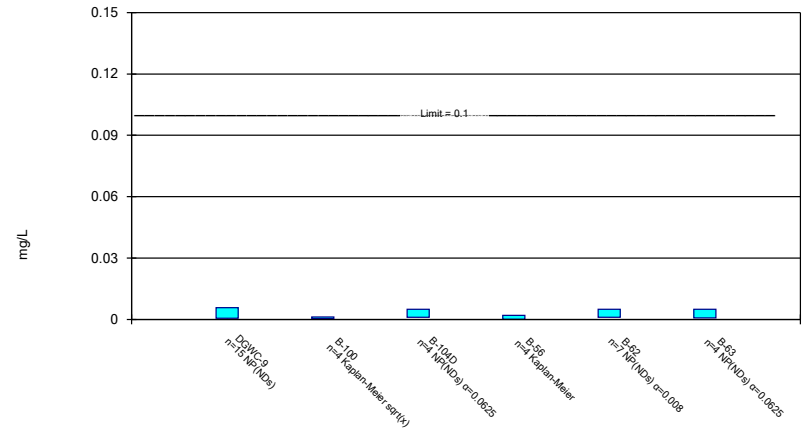
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

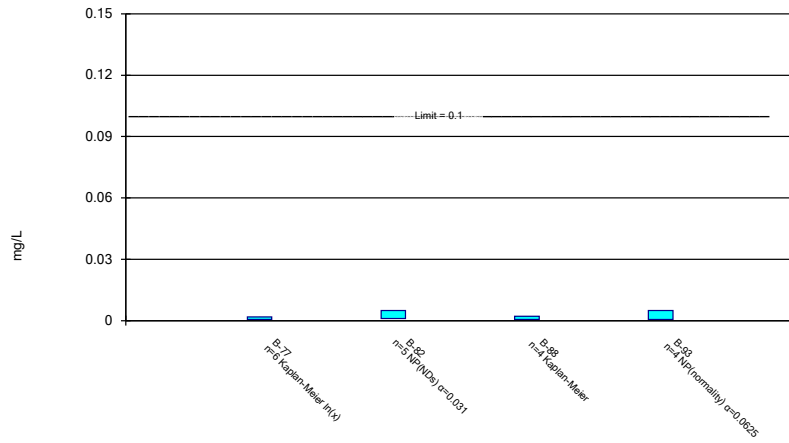
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

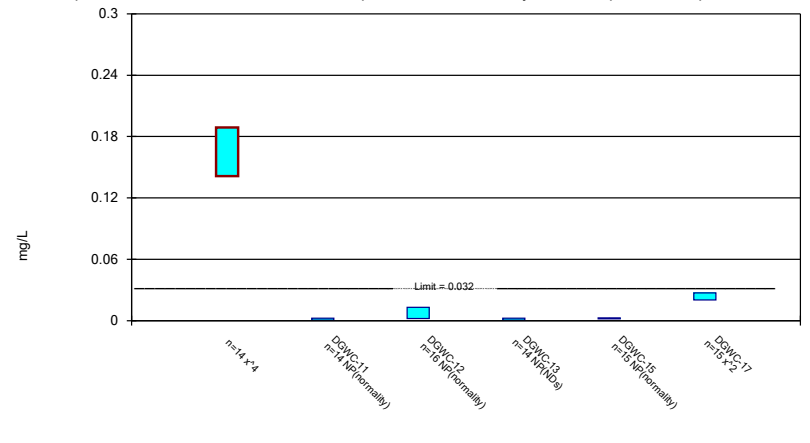
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

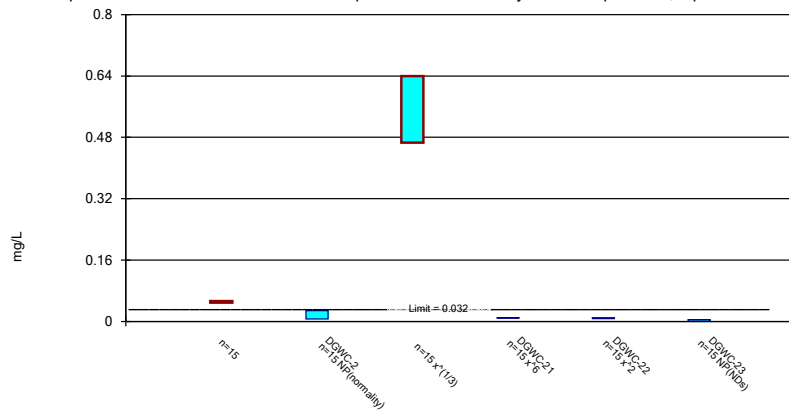
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

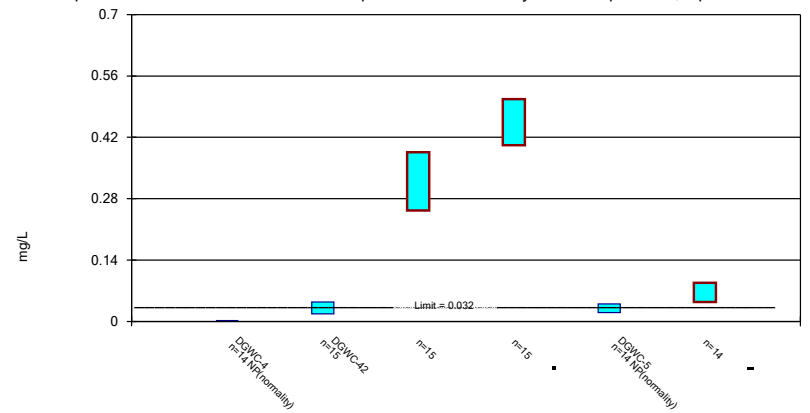
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

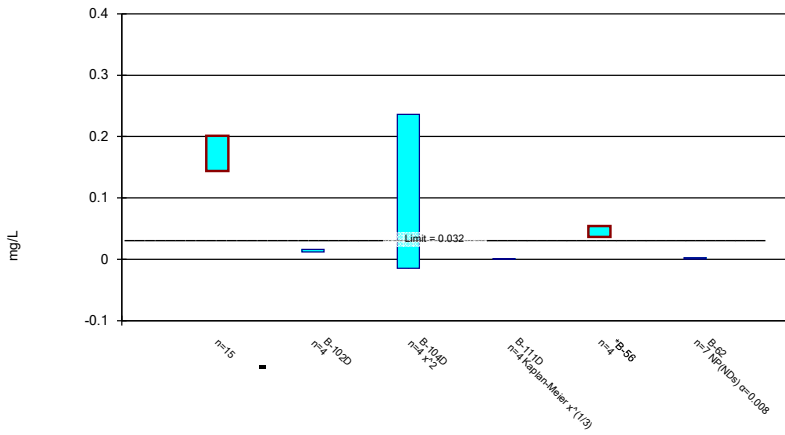
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

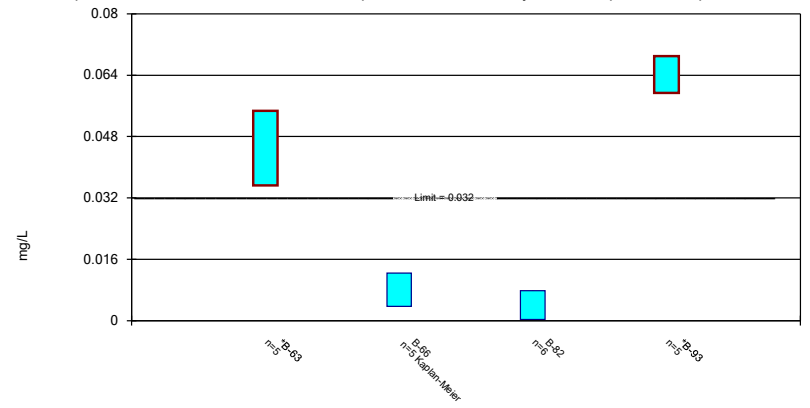
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

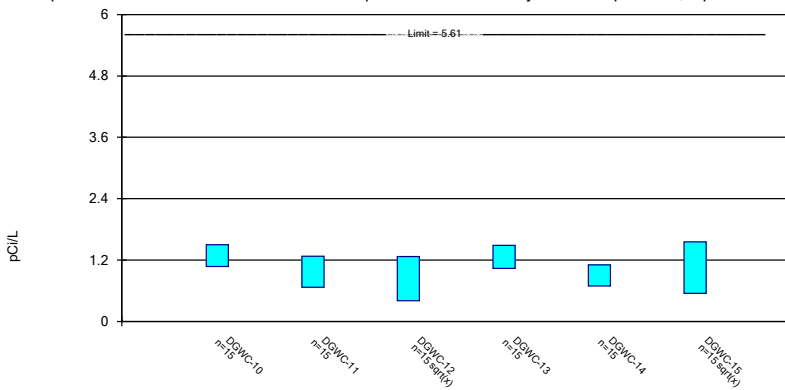
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

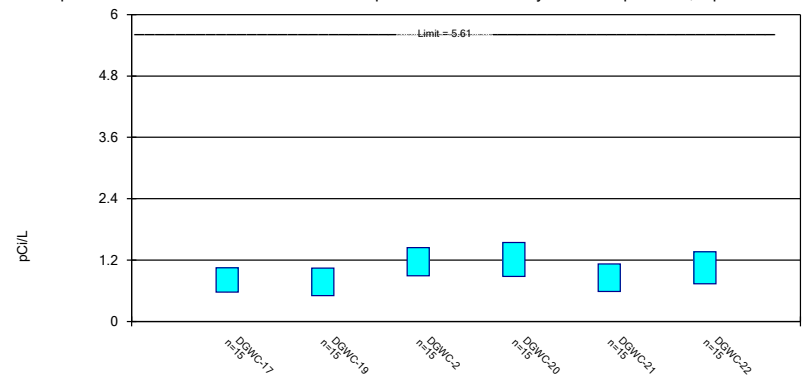
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

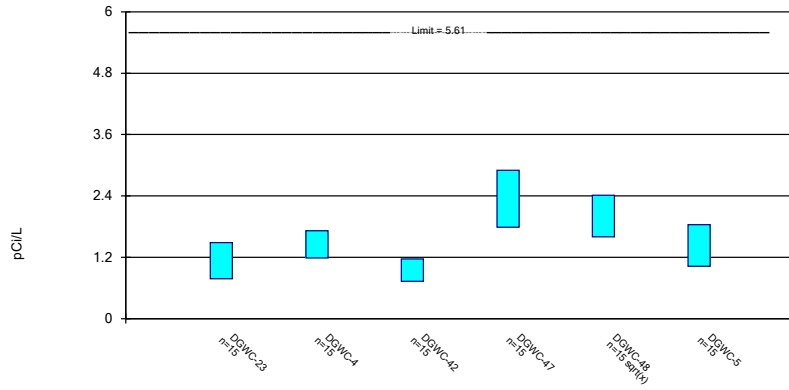
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

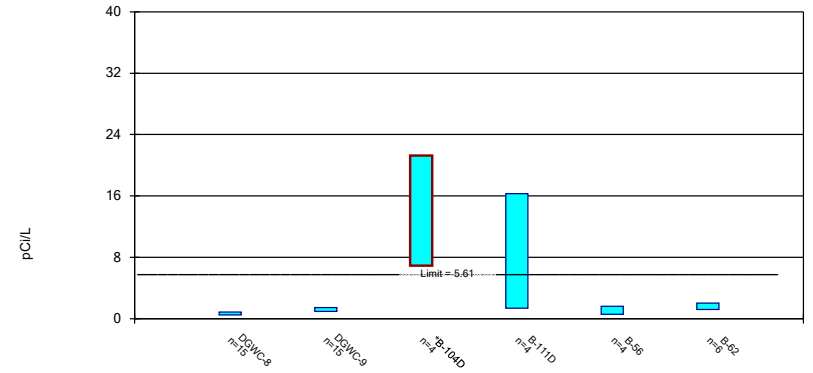
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Inte  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

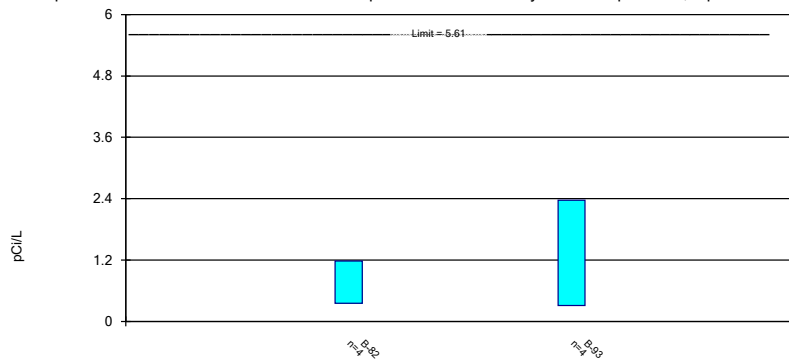
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Inte  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

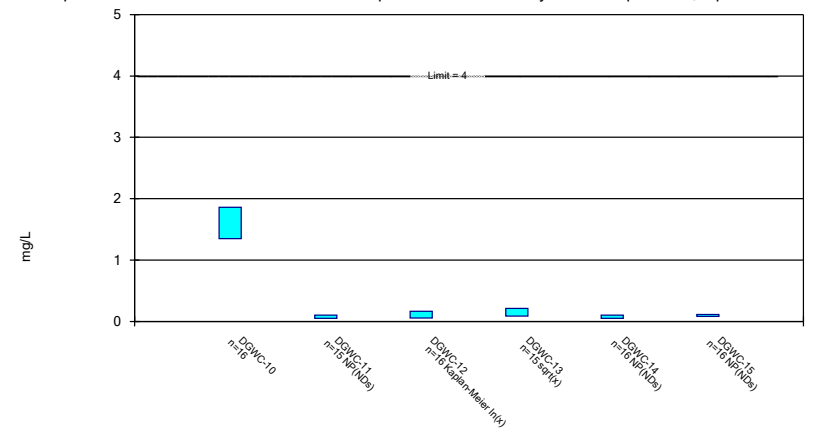
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Inte  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

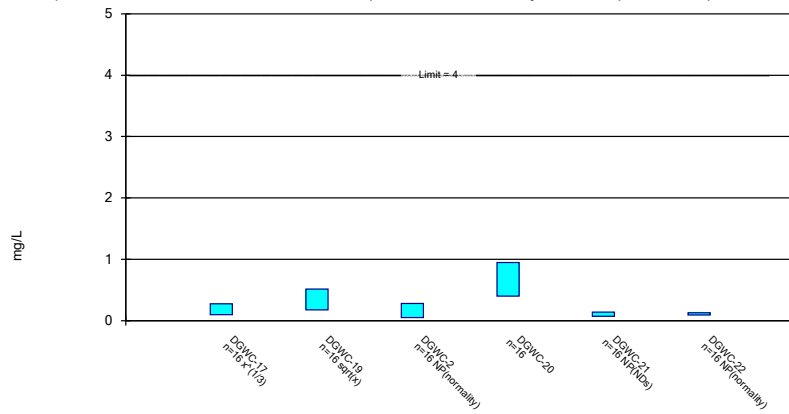
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

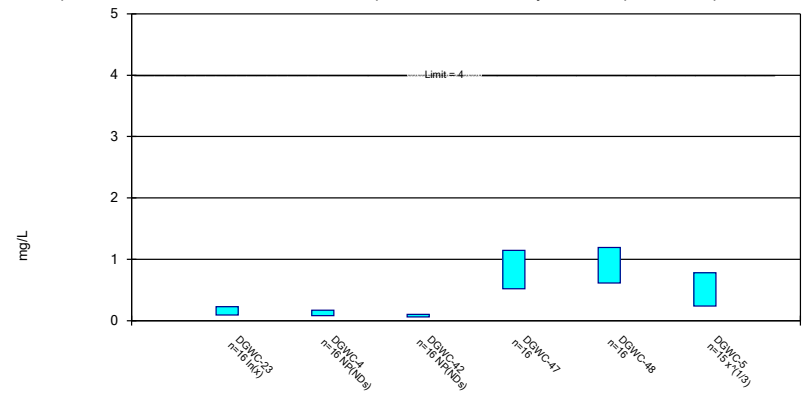
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

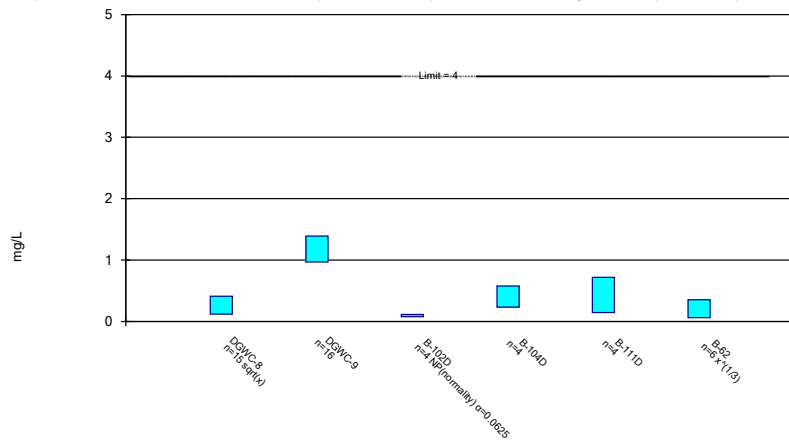
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

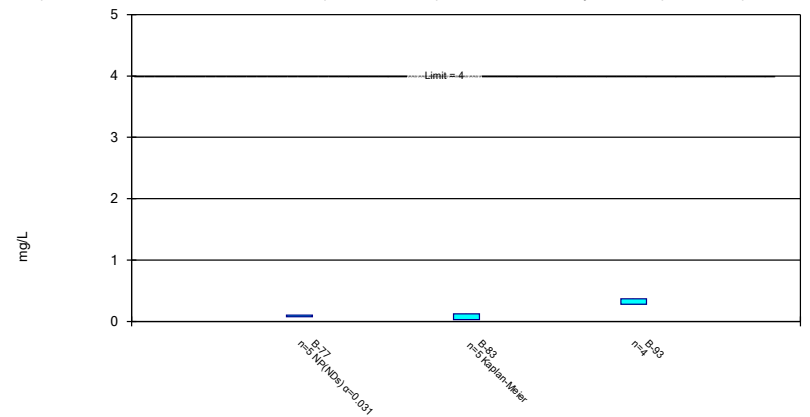
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

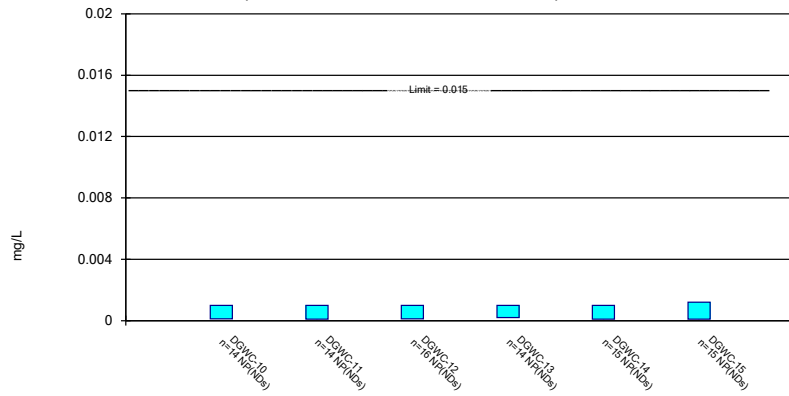
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

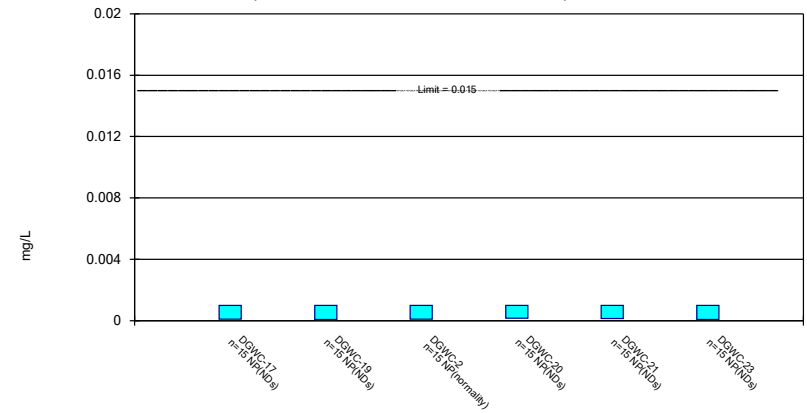
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

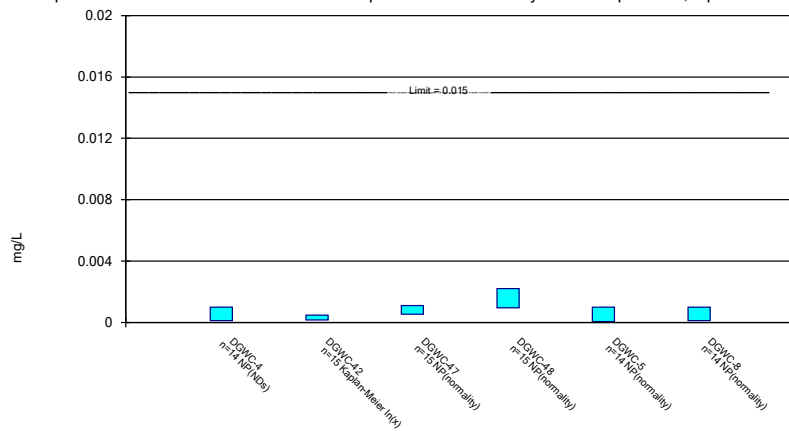
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

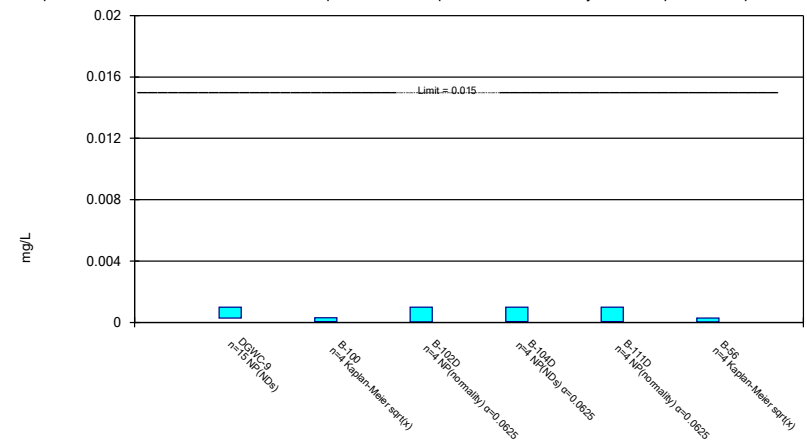
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 11/8/2021 2:40 PM 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.

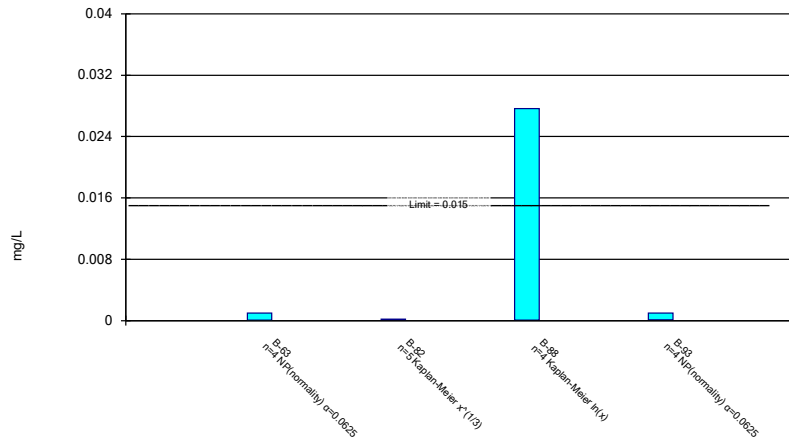


Constituent: Lead Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP



### Parametric and Non-Parametric (NP) Confidence Interval

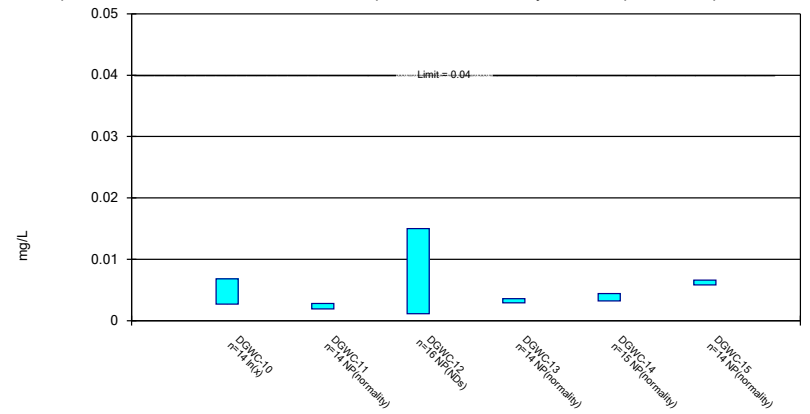
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

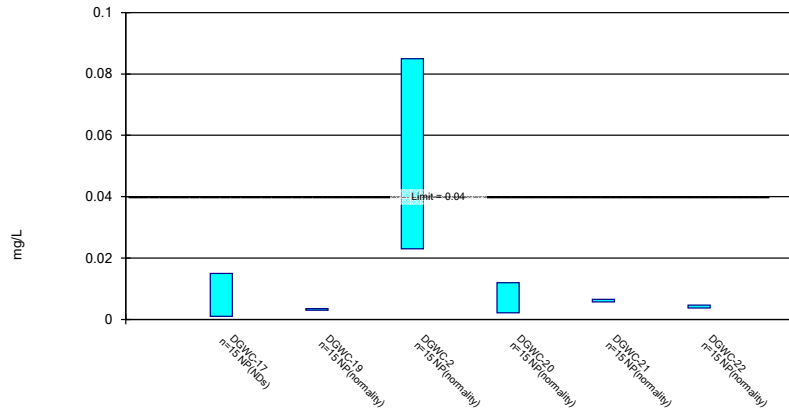
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

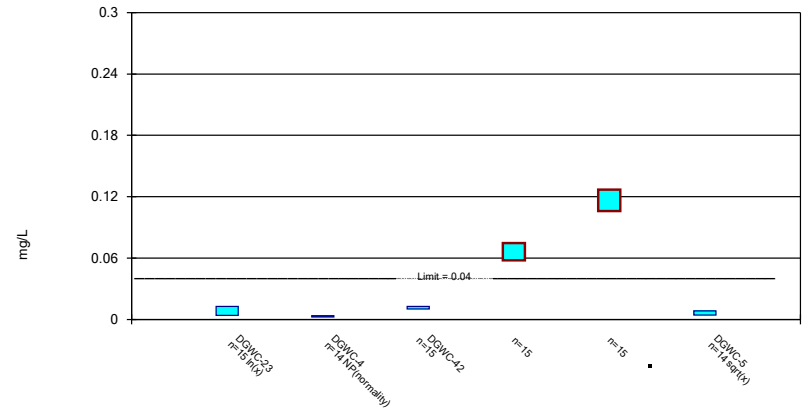
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lithium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

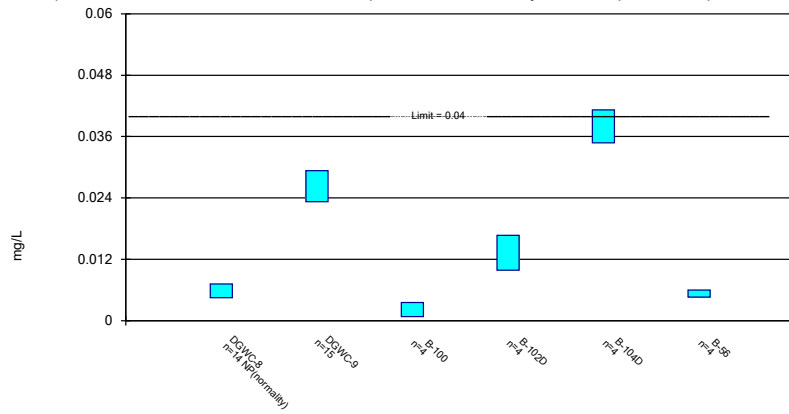
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

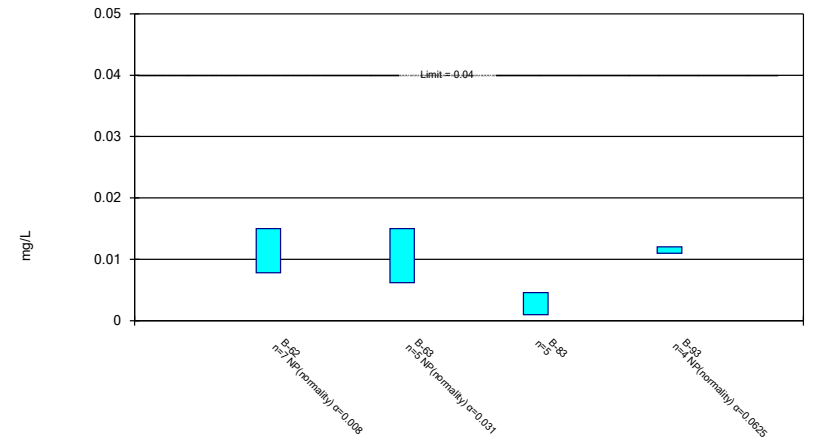
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

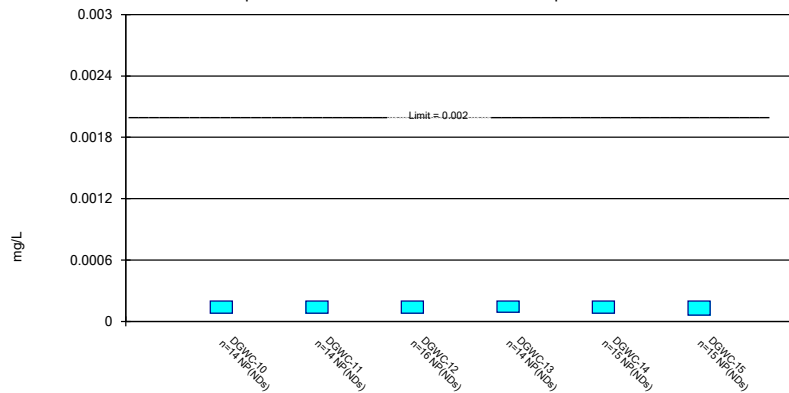
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

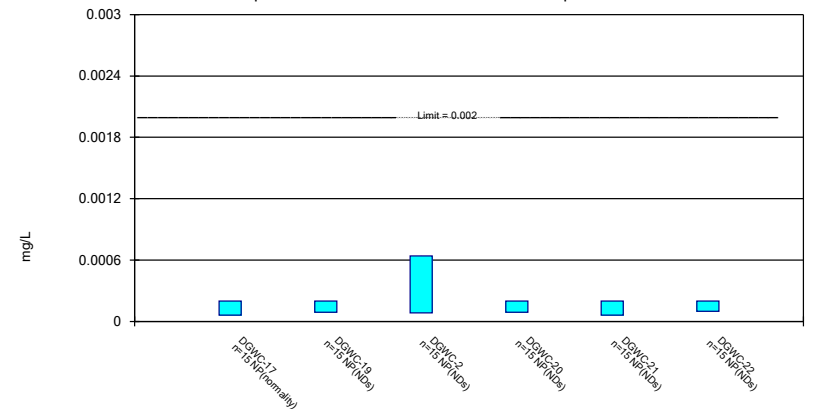
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

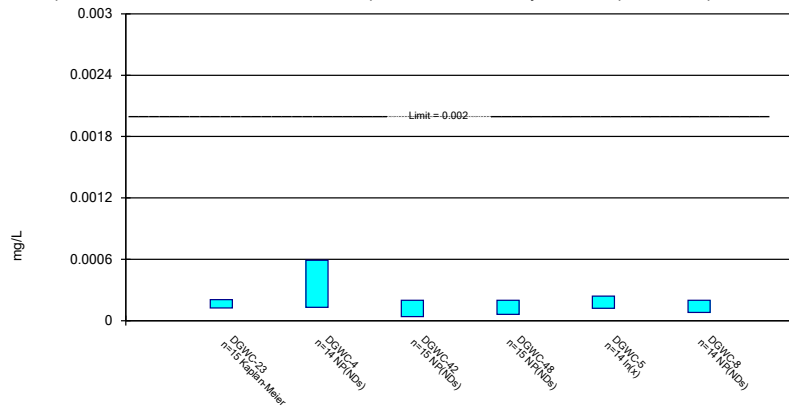
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

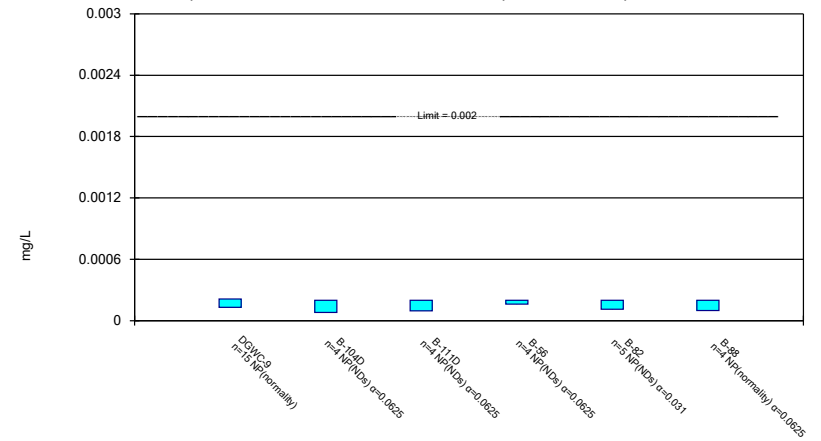
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 11/8/2021 2:40 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

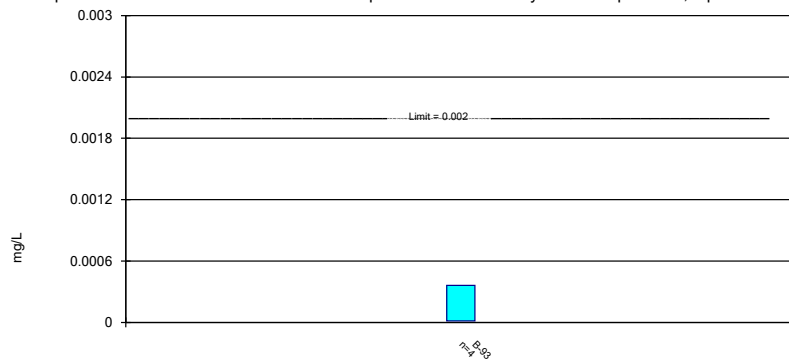
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 11/8/2021 2:41 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

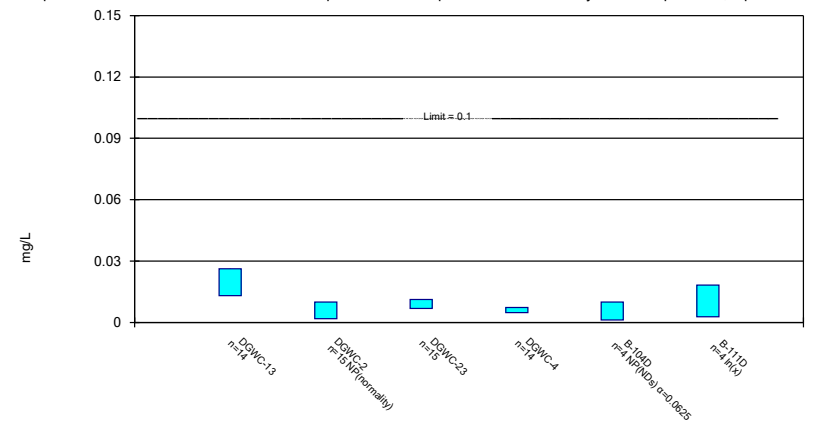
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 11/8/2021 2:41 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

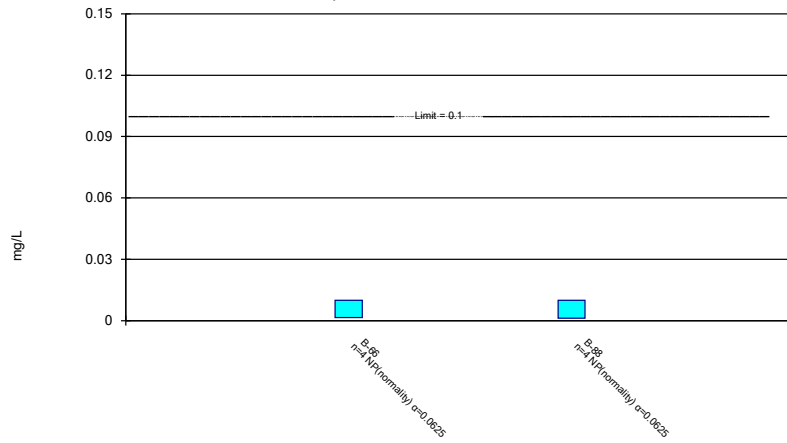
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/8/2021 2:41 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

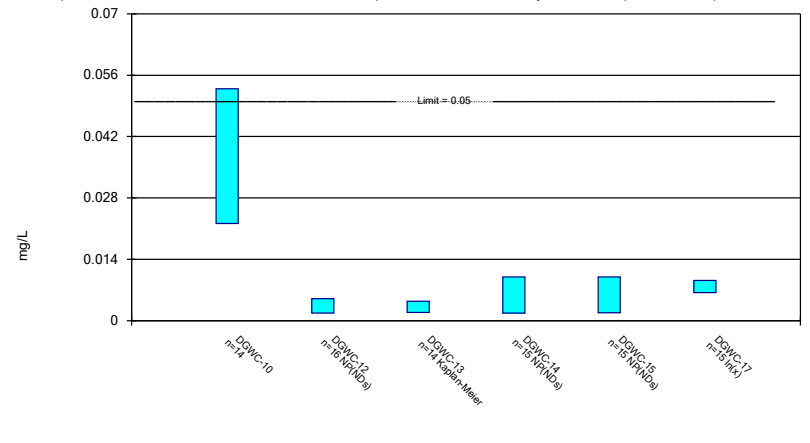
Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 11/8/2021 2:41 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

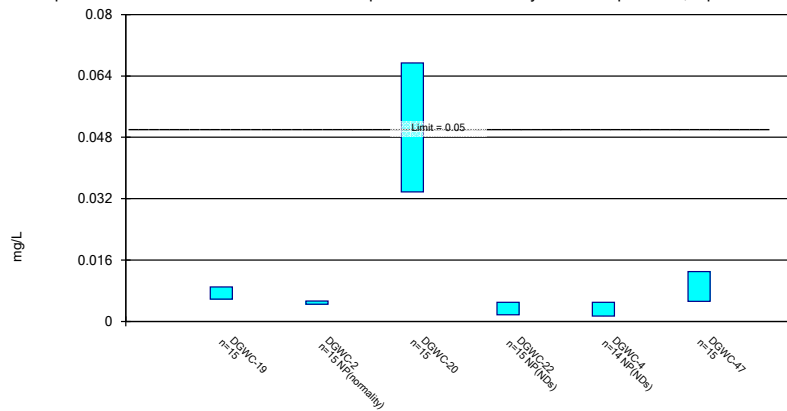
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/8/2021 2:41 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

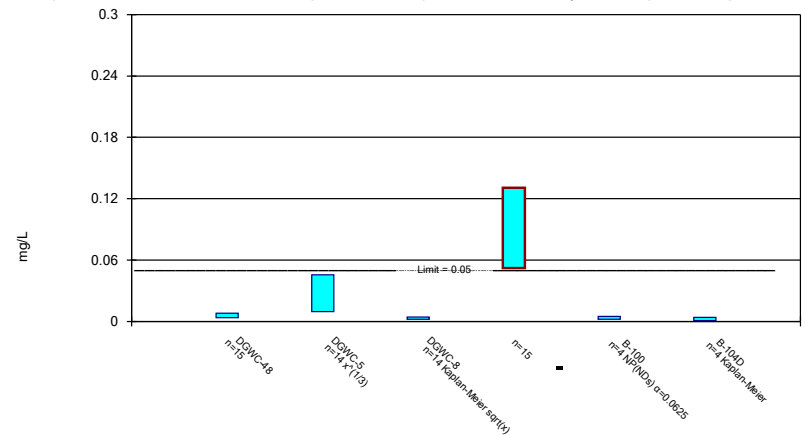
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/8/2021 2:41 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

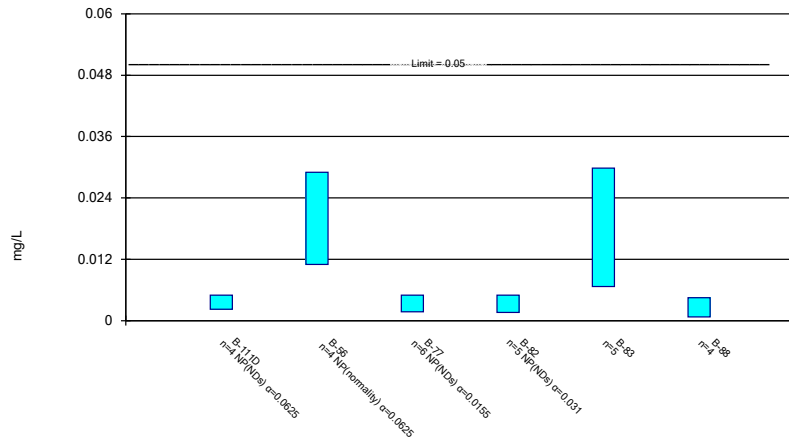
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/8/2021 2:41 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

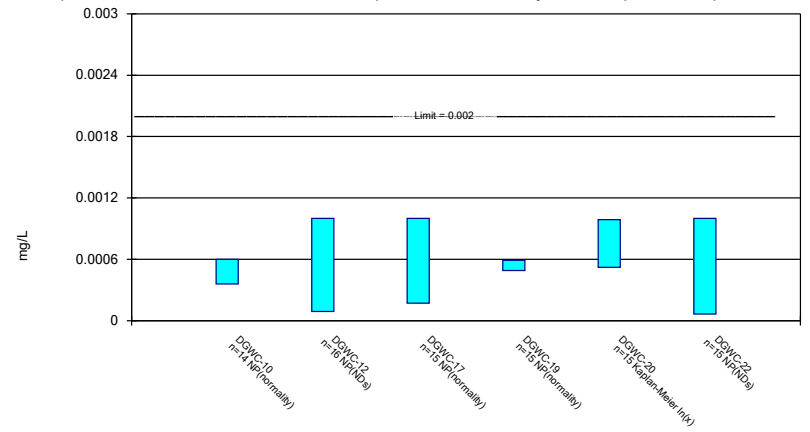
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/8/2021 2:41 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

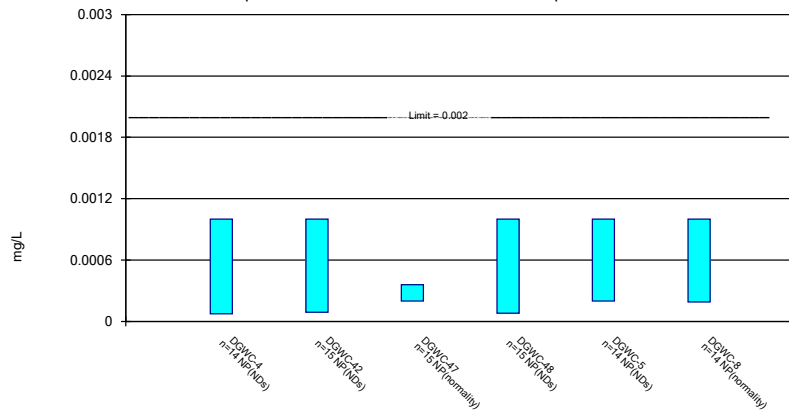
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 11/8/2021 2:41 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

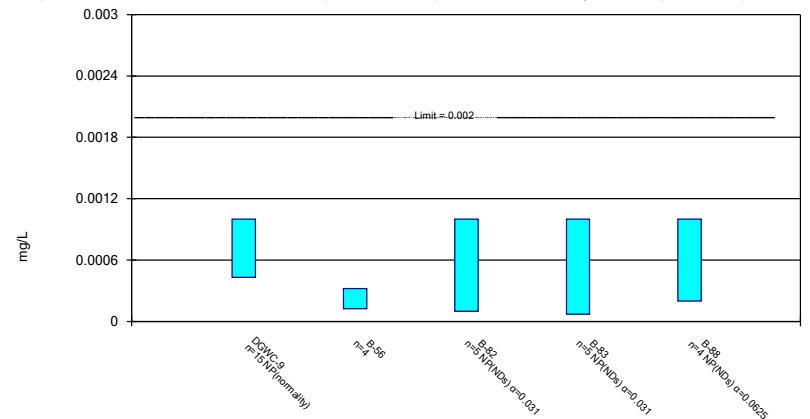
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 11/8/2021 2:41 PM 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 11/8/2021 2:41 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-14	DGWC-15	DGWC-17	DGWC-19	DGWC-2
8/31/2016		<0.003				
9/1/2016	<0.003				<0.003	
9/6/2016			<0.003			
9/7/2016				<0.003		
12/6/2016		<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	
3/30/2017			<0.003	<0.003		<0.003
5/11/2017						<0.003
6/15/2017						0.0006 (J)
7/11/2017						<0.003
7/12/2017	<0.003	<0.003	<0.003	<0.003	<0.003	
10/24/2017						<0.003
10/25/2017	<0.003	<0.003	<0.003	<0.003	<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	<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					
10/16/2019		<0.003			<0.003	
10/17/2019			<0.003			<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			<0.003
9/24/2020				0.00045 (J)		
3/2/2021		<0.003	<0.003		<0.003	<0.003
3/3/2021	<0.003			<0.003		
9/9/2021	<0.003	<0.003	<0.003		<0.003	<0.003
9/13/2021				<0.003		
Mean	0.002831	0.002873	0.002671	0.00283	0.002824	0.00284
Std. Dev.	0.000675	0.0004906	0.0008724	0.0006584	0.0006816	0.0006197
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0003	0.0011	0.00073	0.00045	0.00036	0.0006

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-23	DGWC-4	DGWC-47	DGWC-48	DGWC-5
8/31/2016						<0.003
9/1/2016				<0.003	<0.003	
9/2/2016	<0.003					
12/6/2016						<0.003
12/8/2016	<0.003			<0.003	<0.003	
3/28/2017			<0.003			<0.003
3/30/2017	<0.003	<0.003			<0.003	
3/31/2017				<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				
7/13/2017				<0.003	<0.003	
10/24/2017			<0.003			
10/25/2017	<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					
3/1/2018		<0.003		<0.003		
3/2/2018					<0.003	
7/11/2018	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			
10/16/2019						<0.003
10/17/2019	<0.003			<0.003		
10/18/2019		<0.003			<0.003	
3/2/2020			0.00058 (J)			0.00032 (J)
3/3/2020	<0.003					
3/4/2020		<0.003		<0.003	<0.003	
8/12/2020			<0.003	<0.003		<0.003
8/13/2020		<0.003			<0.003	
8/14/2020	<0.003					
9/22/2020			<0.003			<0.003
9/23/2020				0.0012 (J)	0.00039 (J)	
9/24/2020	<0.003	<0.003				
3/1/2021			0.00049 (J)			
3/2/2021						0.0015 (J)
3/3/2021	<0.003	<0.003		<0.003	<0.003	
9/9/2021	<0.003	<0.003				
9/10/2021			<0.003	<0.003	0.0018 (J)	<0.003
Mean	0.002887	0.002847	0.002491	0.00288	0.002746	0.002701
Std. Dev.	0.0004389	0.0005939	0.001014	0.0004648	0.0007213	0.0007935
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0013	0.0007	0.0008	0.0012	0.0018	0.0015

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	B-100	B-102D	B-104D	B-111D	B-62
8/30/2016	<0.003					
12/6/2016	<0.003					
3/29/2017	<0.003					
7/11/2017	<0.003					
10/24/2017	<0.003					
2/27/2018	<0.003					
11/6/2018	<0.003					
1/30/2019						<0.003
8/28/2019	<0.003					
9/11/2019						<0.003
10/16/2019	<0.003					
10/21/2019						<0.003
3/3/2020	<0.003					
8/12/2020	<0.003					
8/13/2020						<0.003
8/17/2020		0.0013 (J)				
9/23/2020	<0.003					
9/24/2020						0.00046 (J)
9/25/2020		<0.003				
12/9/2020				0.00079 (J)	<0.003	
12/17/2020			0.0016 (J)			
1/11/2021			<0.003			
1/12/2021				0.00048 (J)	<0.003	
3/2/2021	0.00046 (J)					
3/4/2021			<0.003	0.00077 (J)		
3/5/2021					0.0006 (J)	
3/8/2021		0.0017 (J)				
3/12/2021						<0.003
9/9/2021						<0.003
9/10/2021			<0.003			
9/13/2021	<0.003	<0.003				
9/14/2021				<0.003	<0.003	
Mean	0.002819	0.00225	0.00265	0.00126	0.0024	0.002637
Std. Dev.	0.0006788	0.0008813	0.0007	0.001169	0.0012	0.00096
Upper Lim.	0.003	0.001954	0.003	0.001068	0.003	0.003
Lower Lim.	0.00046	0.001046	0.0016	0.0003847	0.0006	0.00046



# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-63	B-77	B-93
1/28/2019	<0.003		
9/11/2019	<0.003		
9/18/2019		<0.003	
10/22/2019	0.00066 (J)		
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	<0.003	
9/15/2021			<0.003
Mean	0.002415	0.001737	0.0026
Std. Dev.	0.00117	0.001387	0.0008
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.00066	0.00036	0.0014

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 2:54 PM 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	
Mean	0.005386	0.004452	0.004693	0.004169	0.003395	0.002317
Std. Dev.	0.002519	0.001498	0.00119	0.001726	0.002042	0.001551
Upper Lim.	0.00717	0.005	0.005	0.005	0.005	0.002035
Lower Lim.	0.003601	0.00063	0.00039	0.0013	0.0008	0.0009847

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-22	DGWC-4	DGWC-42	DGWC-47
9/1/2016						0.0037 (J)
9/2/2016		0.0159	<0.005			
9/7/2016					<0.005	
12/7/2016		0.0037 (J)				
12/8/2016			<0.005		<0.005	0.0032 (J)
3/28/2017				0.0005 (J)		
3/29/2017		0.015	<0.005			
3/30/2017	<0.005					
3/31/2017					0.0007 (J)	0.0031 (J)
5/11/2017	<0.005					
5/12/2017				0.0005 (J)		
6/15/2017	<0.005			<0.005		
7/11/2017	<0.005			0.0008 (J)		
7/12/2017		0.0121				
7/13/2017			<0.005		<0.005	0.0018 (J)
10/24/2017	<0.005			<0.005		
10/25/2017		0.0135	<0.005		<0.005	
10/26/2017						0.0016 (J)
2/27/2018	<0.005			<0.005		
2/28/2018		0.0177	0.001 (J)		0.0011 (J)	
3/1/2018						0.0029 (J)
7/11/2018	<0.005	0.0055			<0.005	
7/12/2018			<0.005			0.0023 (J)
11/6/2018	<0.005			<0.005		
11/7/2018		0.0054	<0.005		<0.005	<0.005 (J)
8/27/2019	0.00099 (J)			<0.005		
8/28/2019					<0.005	
8/29/2019		0.0064	<0.005			0.00089 (J)
10/15/2019				<0.005		
10/17/2019	<0.005	0.0094			<0.005	0.0013 (J)
10/18/2019			<0.005			
3/2/2020				<0.005		
3/3/2020	0.0025 (J)		<0.005			
3/4/2020		0.029			<0.005	0.0012 (J)
8/11/2020	<0.005					
8/12/2020				<0.005		0.00081 (J)
8/13/2020		0.014			<0.005	
8/14/2020			<0.005			
9/22/2020		0.0063		<0.005	<0.005	
9/23/2020	<0.005					<0.005
9/24/2020			<0.005			
3/1/2021				<0.005		
3/2/2021	<0.005	0.019				
3/3/2021			<0.005		<0.005	<0.005
9/9/2021	<0.005					
9/10/2021		0.0083	<0.005	<0.005		0.0016 (J)
9/13/2021					<0.005	
Mean	0.004566	0.01208	0.004733	0.004057	0.004453	0.002627
Std. Dev.	0.00118	0.006761	0.001033	0.001875	0.001445	0.001504
Upper Lim.	0.005	0.01666	0.005	0.005	0.005	0.002647
Lower Lim.	0.0025	0.007499	0.001	0.0008	0.0011	0.001328

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-104D	B-111D
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	<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					0.0023 (J)	
9/10/2021	<0.005	0.0031 (J)		0.031		
9/13/2021			<0.005			
9/14/2021					0.0019 (J)	0.0029 (J)
Mean	0.003206	0.008443	0.00369	0.02361	0.0036	0.0038
Std. Dev.	0.002005	0.009971	0.001839	0.009468	0.001635	0.001407
Upper Lim.	0.005	0.0118	0.005	0.03003	0.002881	0.003281
Lower Lim.	0.0008	0.002817	0.0012	0.0172	0.001519	0.001919

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-56	B-77	B-93
9/18/2019		<0.005	
10/24/2019		0.0029 (J)	
8/13/2020		0.002 (J)	
8/17/2020	0.0032 (J)		
8/19/2020			0.0013 (J)
9/24/2020		0.0025 (J)	
9/28/2020	0.0047 (J)		0.0027 (J)
3/3/2021	0.003 (J)		
3/4/2021		0.002 (J)	
3/9/2021			<0.005
9/13/2021	0.0031 (J)		
9/14/2021		<0.005	
9/15/2021			<0.005
Mean	0.0035	0.003233	0.0035
Std. Dev.	0.0008042	0.001409	0.001824
Upper Lim.	0.0047	0.002882	0.003589
Lower Lim.	0.003	0.001869	0.0004108

# Confidence Interval

Constituent: Barium (mg/L)    Analysis Run 11/8/2021 2:54 PM    View: AP 234 Confidence Intervals

Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	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					
Mean	0.02634	0.06139	0.02824	0.02908	0.06024	0.04751
Std. Dev.	0.004637	0.007138	0.006231	0.007369	0.003493	0.004744
Upper Lim.	0.02962	0.06644	0.03199	0.03292	0.06261	0.05073
Lower Lim.	0.02305	0.05633	0.02415	0.02732	0.05787	0.0443

# Confidence Interval

Constituent: Barium (mg/L)    Analysis Run 11/8/2021 2:54 PM    View: AP 234 Confidence Intervals

Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.0214				
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					
Mean	0.04901	0.02359	0.022	0.01227	0.02596	0.03483
Std. Dev.	0.01083	0.002686	0.001	0.004566	0.001505	0.004281
Upper Lim.	0.05635	0.02541	0.02268	0.01537	0.0272	0.03773
Lower Lim.	0.04167	0.02177	0.02132	0.009179	0.024	0.03193

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						0.0266 (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			
Mean	0.02113	0.03419	0.01836	0.01786	0.01367	0.01742
Std. Dev.	0.004092	0.002802	0.003153	0.002794	0.001016	0.001247
Upper Lim.	0.0236	0.03617	0.0205	0.01975	0.01436	0.01834
Lower Lim.	0.01844	0.0322	0.01622	0.01597	0.01298	0.01649



# Confidence Interval

Constituent: Barium (mg/L)    Analysis Run 11/8/2021 2:54 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-8	DGWC-9	B-102D	B-104D	B-111D	B-56
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						0.03
9/22/2020		0.015				
9/23/2020	0.025					
9/28/2020						0.026
12/9/2020				0.026	0.027	
12/17/2020			0.022			
1/11/2021			0.024			
1/12/2021				0.022	0.027	
3/2/2021	0.029	0.017				
3/3/2021						0.028
3/4/2021			0.022	0.021		
3/5/2021					0.038	
9/10/2021		0.014	0.02			
9/13/2021	0.019					0.026
9/14/2021				0.021	0.043	
Mean	0.03236	0.01553	0.022	0.0225	0.03375	0.0275
Std. Dev.	0.008048	0.00103	0.001633	0.00238	0.008057	0.001915
Upper Lim.	0.03806	0.01623	0.02571	0.026	0.05204	0.03185
Lower Lim.	0.02666	0.01484	0.01829	0.021	0.01546	0.02315

# Confidence Interval

Constituent: Barium (mg/L)    Analysis Run 11/8/2021 2:54 PM    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		0.028				
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					0.024	
9/24/2020	0.025			0.12		
9/25/2020						0.027
9/28/2020					0.023	
3/4/2021				0.11		0.032
3/12/2021	0.027					
9/9/2021	0.021					
9/14/2021		0.026	0.018	0.12	0.022	
9/16/2021						0.03
Mean	0.02371	0.024	0.01725	0.1077	0.026	0.0358
Std. Dev.	0.003251	0.003559	0.0009574	0.01299	0.004183	0.01158
Upper Lim.	0.02758	0.03208	0.01942	0.1255	0.03301	0.05537
Lower Lim.	0.01985	0.01592	0.01508	0.08983	0.01899	0.02029

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-88	B-93
8/17/2020	0.022	
8/19/2020		0.018
9/25/2020	0.021	
9/28/2020		0.017
3/5/2021	0.022	
3/9/2021		0.016 (J)
9/13/2021	0.016	
9/15/2021		0.016
Mean	0.02025	0.01675
Std. Dev.	0.002872	0.0009574
Upper Lim.	0.02418	0.01892
Lower Lim.	-0.01405	0.01458

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 2:54 PM 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
Mean	0.007443	0.0004964	0.0003943	0.0005256	0.0006185	0.0005727
Std. Dev.	0.002492	0.0007432	0.0007051	0.000742	0.0006715	6.808E-05
Upper Lim.	0.009208	0.003	0.00049	0.003	0.003	0.0006188
Lower Lim.	0.005678	0.00013	0.00011	7E-05	0.00022	0.0005265

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 2:54 PM 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)
Mean	0.001907	0.003673	0.000374	0.000376	0.000618	0.0004279
Std. Dev.	0.0004978	0.002056	0.0007325	0.0007316	0.0006665	0.0007463
Upper Lim.	0.0021	0.004866	0.0005	0.0005	0.0005	0.00028
Lower Lim.	0.0017	0.002215	0.0001	0.00014	0.00038	0.00019

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016					0.0018 (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	
Mean	0.002333	0.01091	0.00838	0.007443	0.002443	0.005413
Std. Dev.	0.0006576	0.002797	0.00126	0.001758	0.00107	0.000712
Upper Lim.	0.002738	0.01281	0.009234	0.008688	0.003201	0.005896
Lower Lim.	0.002049	0.009018	0.007526	0.006197	0.001685	0.004931

# Confidence Interval

Constituent: Beryllium (mg/L)    Analysis Run 11/8/2021 2:54 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-100	B-102D	B-104D	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	0.0004 (J)			0.0013 (J)		
9/24/2020					0.00013 (J)	
9/25/2020	0.00035 (J)					
9/28/2020				0.0012 (J)		
12/9/2020			0.0013 (J)			
12/17/2020		0.0014 (J)				
1/11/2021		0.0013 (J)				
1/12/2021			0.0015 (J)			
3/3/2021				0.0011		
3/4/2021		0.0012	0.0015			
3/8/2021	0.00046 (J)					
3/12/2021					<0.0005	
9/9/2021					0.00014 (J)	
9/10/2021		0.0011				
9/13/2021	0.00053			0.0012		
9/14/2021			0.0011			0.00042 (J)
Mean	0.000435	0.00125	0.00135	0.0012	0.0002085	0.00041
Std. Dev.	7.767E-05	0.0001291	0.0001915	8.165E-05	0.000181	7.797E-05
Upper Lim.	0.0006113	0.001543	0.001785	0.001385	0.0005	0.0004803
Lower Lim.	0.0002587	0.0009569	0.0009153	0.001015	7.8E-05	0.0003037

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-77	B-82	B-83	B-93	B-98
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				
12/19/2019				0.0069	
2/17/2020					<0.0005
2/27/2020					<0.0005
8/13/2020	0.00014 (J)				
8/14/2020			0.0007 (J)		
8/17/2020		0.0014 (J)			
8/19/2020				0.015	
9/24/2020	5.3E-05 (J)				
9/25/2020			0.00028 (J)		
9/28/2020		0.0015 (J)		0.015	
3/4/2021	5.7E-05 (J)		0.00037 (J)		
3/9/2021				0.017	
3/15/2021					<0.0005
9/14/2021	<0.0005	0.0017			
9/15/2021				0.015	0.00087
9/16/2021			0.00028 (J)		
Mean	0.0002267	0.00144	0.000404	0.01378	0.0005925
Std. Dev.	0.0002142	0.0002191	0.000173	0.003942	0.000185
Upper Lim.	0.0001464	0.001807	0.0006999	0.01805	0.00087
Lower Lim.	4.658E-05	0.001073	0.0001718	0.006467	0.0005



# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 2:54 PM 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)
Mean	0.001009	0.0004221	0.0003944	0.0004486	0.0004287	0.0002987
Std. Dev.	0.0002801	0.0001549	0.0001917	0.0001328	0.0002377	9.062E-05
Upper Lim.	0.001207	0.0005	0.0003426	0.0005	0.001	0.00033
Lower Lim.	0.0008102	0.00016	0.0002257	0.0002	0.00012	0.00023

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 2:54 PM 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	
Mean	0.0004207	0.0003667	0.00198	0.0006047	0.000578	0.0002967
Std. Dev.	0.0001665	0.0002335	0.0003802	0.0002024	0.0001826	0.0002115
Upper Lim.	0.0005	0.0002846	0.002238	0.0007418	0.0007017	0.0003
Lower Lim.	0.00034	0.0001314	0.001722	0.0004675	0.0004543	0.00019

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 2:54 PM 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
Mean	0.0007193	0.0008233	0.001713	0.003527	0.0006279	0.002243
Std. Dev.	0.0001538	0.0005572	0.0006896	0.001682	0.0002677	0.0003857
Upper Lim.	0.0008282	0.001109	0.002181	0.0042	0.0008175	0.002516
Lower Lim.	0.0006103	0.0004679	0.001246	0.0025	0.0004382	0.00197

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-100	B-102D	B-56	B-63	B-82
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)					
1/28/2019					<0.0005	
8/27/2019	0.00071 (J)					
9/11/2019					<0.0005	
9/23/2019						0.00044 (J)
10/17/2019	0.00064 (J)					
10/21/2019						0.00035 (J)
10/22/2019					0.00014 (J)	
3/3/2020	0.00059 (J)					
8/11/2020	0.00059 (J)					
8/17/2020		0.00059 (J)		0.00029 (J)		0.00058 (J)
9/22/2020	0.00059 (J)					
9/25/2020		0.00027 (J)				
9/28/2020				0.00024 (J)		0.00066 (J)
12/17/2020			0.00067 (J)			
1/11/2021			0.0008 (J)			
3/2/2021	0.00057					
3/3/2021				0.00026 (J)		
3/4/2021			0.00081			
3/8/2021		0.00027 (J)				
9/10/2021	0.00053		0.00083			
9/13/2021		0.00029 (J)		0.00028 (J)		
9/14/2021					0.00025 (J)	0.0007
Mean	0.0005927	0.000355	0.0007775	0.0002675	0.0003475	0.000546
Std. Dev.	0.0001373	0.000157	7.274E-05	2.217E-05	0.0001817	0.0001479
Upper Lim.	0.0006732	0.00059	0.0009243	0.0003178	0.0003199	0.0007939
Lower Lim.	0.0005032	0.00027	0.0006021	0.0002172	7.013E-05	0.0002981

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-83	B-88	B-93
10/21/2019	0.00041 (J)		
8/14/2020	0.00037 (J)		
8/17/2020		0.0018 (J)	
8/19/2020			0.00077 (J)
9/25/2020	0.00026 (J)	0.00022 (J)	
9/28/2020			0.00074 (J)
3/4/2021	0.00032 (J)		
3/5/2021		0.0065	
3/9/2021			0.00075 (J)
9/13/2021		0.0013	
9/15/2021			0.00088
9/16/2021	0.0003 (J)		
Mean	0.000332	0.002455	0.000785
Std. Dev.	5.891E-05	0.002776	6.455E-05
Upper Lim.	0.0004307	0.008758	0.0009316
Lower Lim.	0.0002333	-0.003848	0.0006384

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:54 PM 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)
Mean	0.002321	0.003742	0.004496	0.003778	0.004423	0.003047
Std. Dev.	0.002074	0.002064	0.001378	0.002006	0.002397	0.0008651
Upper Lim.	0.005	0.005	0.005	0.005	0.01	0.0035
Lower Lim.	0.00078	0.0006	0.00099	0.00074	0.00058	0.0024

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:54 PM 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	
Mean	0.00342	0.003211	0.003467	0.00333	0.004747	0.002187
Std. Dev.	0.002022	0.002268	0.002385	0.002148	0.0009812	0.002075
Upper Lim.	0.005	0.005	0.002136	0.005	0.005	0.005
Lower Lim.	0.0023	0.0005	0.001443	0.0005	0.0012	0.0005

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:54 PM 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
Mean	0.004679	0.003082	0.004713	0.004407	0.004675	0.003391
Std. Dev.	0.001203	0.002157	0.00111	0.001567	0.001216	0.002002
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0005	0.0005	0.0007	0.0007	0.00045	0.00086



# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-100	B-104D	B-56	B-62	B-63
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					
1/28/2019						<0.005
1/30/2019					<0.005	
8/27/2019	0.00048 (J)					
9/11/2019					<0.005	<0.005
10/17/2019	0.00051 (J)					
10/21/2019					0.00098 (J)	
10/22/2019						0.00064 (J)
3/3/2020	0.0057 (J)					
8/11/2020	0.00061 (J)					
8/13/2020					<0.005	
8/17/2020		<0.005		0.0014 (J)		
9/22/2020	<0.005					
9/24/2020					<0.005	
9/25/2020		0.00094 (J)				
9/28/2020				<0.005		
12/9/2020			0.0011 (J)			
1/12/2021			<0.005			
3/2/2021	0.00059 (J)					
3/3/2021				0.00059 (J)		
3/4/2021			<0.005			
3/8/2021		0.00057 (J)				
3/12/2021					<0.005	
9/9/2021					<0.005	
9/10/2021	<0.005					
9/13/2021		<0.005		<0.005		
9/14/2021			<0.005			<0.005
Mean	0.003593	0.002877	0.004025	0.002997	0.004426	0.00391
Std. Dev.	0.002173	0.002456	0.00195	0.002336	0.001519	0.00218
Upper Lim.	0.0057	0.001223	0.005	0.001914	0.005	0.005
Lower Lim.	0.00059	0.0003828	0.0011	7.551E-05	0.00098	0.00064

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-77	B-82	B-88	B-93
9/18/2019	0.00068 (J)			
9/23/2019		0.0011 (J)		
10/21/2019		<0.005		
10/24/2019	<0.005			
8/13/2020	0.0021 (J)			
8/17/2020		<0.005	0.0014 (J)	
8/19/2020				0.00057 (J)
9/24/2020	0.0007 (J)			
9/25/2020			0.00085 (J)	
9/28/2020		<0.005		0.00066 (J)
3/4/2021	0.00098 (J)			
3/5/2021			0.0017 (J)	
3/9/2021				<0.005
9/13/2021			<0.005	
9/14/2021	<0.005	<0.005		
9/15/2021				<0.005
Mean	0.00241	0.00422	0.002237	0.002807
Std. Dev.	0.002072	0.001744	0.001875	0.002532
Upper Lim.	0.001858	0.005	0.002116	0.005
Lower Lim.	0.0005328	0.0011	0.0005176	0.00057

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 2:54 PM 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
Mean	0.1537	0.001481	0.008125	0.002056	0.003653	0.02313
Std. Dev.	0.04866	0.0009221	0.009711	0.0008832	0.005947	0.00641
Upper Lim.	0.1888	0.0025	0.013	0.0025	0.0028	0.02716
Lower Lim.	0.1413	0.0006	0.0021	0.0005	0.0016	0.02022

# Confidence Interval

Constituent: Cobalt (mg/L)    Analysis Run 11/8/2021 2:54 PM    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	
Mean	0.05128	0.01761	0.5575	0.00862	0.008533	0.00183
Std. Dev.	0.002996	0.01155	0.1355	0.002141	0.002244	0.001357
Upper Lim.	0.05331	0.0284	0.6394	0.009773	0.009945	0.005
Lower Lim.	0.04925	0.0062	0.4659	0.008552	0.007492	0.00039

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 2:54 PM 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
Mean	0.002021	0.03087	0.3194	0.4547	0.02794	0.06596
Std. Dev.	0.000904	0.02013	0.09792	0.07771	0.01109	0.03083
Upper Lim.	0.0021	0.04451	0.3858	0.5073	0.04	0.0878
Lower Lim.	0.0015	0.01723	0.253	0.402	0.02	0.04412

# Confidence Interval

Constituent: Cobalt (mg/L)    Analysis Run 11/8/2021 2:54 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-9	B-102D	B-104D	B-111D	B-56	B-62
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					
1/30/2019						<0.005
8/27/2019	0.24					
9/11/2019						0.0003 (J)
10/17/2019	0.21					
10/21/2019						0.00031 (J)
3/3/2020	0.2					
8/11/2020	0.22					
8/13/2020						<0.005
8/17/2020					0.042	
9/22/2020	0.16					
9/24/2020						<0.005
9/28/2020					0.042	
12/9/2020			0.17	0.00076 (J)		
12/17/2020		0.014				
1/11/2021		0.015				
1/12/2021			0.19	0.0007 (J)		
3/2/2021	0.18					
3/3/2021					0.05	
3/4/2021		0.014	0.19			
3/5/2021				0.00052 (J)		
3/12/2021						<0.005
9/9/2021						<0.005
9/10/2021	0.21	0.013				
9/13/2021					0.047	
9/14/2021			0.1	<0.005		
Mean	0.1724	0.014	0.1625	0.00112	0.04525	0.001873
Std. Dev.	0.04231	0.0008165	0.04272	0.0009256	0.003948	0.001071
Upper Lim.	0.201	0.01585	0.2361	0.0009228	0.05421	0.0025
Lower Lim.	0.1437	0.01215	-0.01451	0.0004439	0.03629	0.0003

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-63	B-66	B-82	B-93
1/28/2019	0.053			
1/30/2019		<0.005		
9/11/2019	0.043			
9/12/2019		0.006		
9/23/2019			0.0038 (J)	
10/21/2019		0.0074	0.0089	
10/22/2019	0.046			
12/19/2019				0.066
8/17/2020			0.0028 (J)	
8/19/2020				0.068
9/28/2020			0.0053	0.064
3/9/2021				0.061
3/12/2021	0.046	0.01	0.0021 (J)	
9/14/2021	0.037	0.012	0.0015 (J)	
9/15/2021				0.062
Mean	0.045	0.00758	0.004067	0.0642
Std. Dev.	0.005788	0.003665	0.002721	0.002864
Upper Lim.	0.0547	0.01241	0.007804	0.069
Lower Lim.	0.0353	0.003754	0.0003291	0.0594

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	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)					
Mean	1.284	0.9694	0.8984	1.26	0.8972	1.118
Std. Dev.	0.314	0.4467	0.714	0.3303	0.303	0.8748
Upper Lim.	1.497	1.272	1.27	1.484	1.103	1.553
Lower Lim.	1.071	0.6667	0.4013	1.036	0.6919	0.551



# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		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)					
Mean	0.8113	0.7733	1.168	1.21	0.8557	1.049
Std. Dev.	0.3526	0.3942	0.4067	0.4913	0.3972	0.4659
Upper Lim.	1.05	1.04	1.444	1.543	1.125	1.364
Lower Lim.	0.5723	0.5062	0.8924	0.8767	0.5866	0.733

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						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)			
Mean	1.133	1.454	0.9499	2.344	2.03	1.431
Std. Dev.	0.5259	0.3939	0.3231	0.8249	0.6435	0.6015
Upper Lim.	1.489	1.721	1.169	2.903	2.415	1.839
Lower Lim.	0.7765	1.187	0.7309	1.785	1.602	1.024

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-104D	B-111D	B-56	B-62
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				
1/30/2019						1.97 (U)
8/27/2019		1.55				
8/28/2019	0.815 (U)					
10/16/2019	0.999 (U)					
10/17/2019		0.702 (U)				
10/21/2019						1.82
3/3/2020	0.481 (U)	1.37				
8/11/2020		0.819 (U)				
8/12/2020	0.721 (U)					
8/13/2020						1.63
8/17/2020					1.15 (U)	
9/22/2020		1.15 (U)				
9/23/2020	0.8 (U)					
9/24/2020						1.28 (U)
9/28/2020					1.39	
12/9/2020			15.2	12.3		
1/12/2021			17	9.63		
3/2/2021	0.751 (U)	1.29 (U)				
3/3/2021					1.01 (U)	
3/4/2021			14.5			
3/5/2021				9.05		
3/12/2021						1.18 (U)
9/9/2021						1.7
9/10/2021		1.28				
9/13/2021	0.916 (U)				0.854 (U)	
9/14/2021			9.6	4.39		
Mean	0.6602	1.196	14.08	8.843	1.101	1.597
Std. Dev.	0.2668	0.3583	3.164	3.288	0.2275	0.3082
Upper Lim.	0.841	1.439	21.26	16.31	1.617	2.02
Lower Lim.	0.4794	0.9531	6.892	1.377	0.5846	1.173

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

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	B-82	B-93
10/21/2019	0.63 (U)	
8/17/2020	0.662 (U)	
8/19/2020		1.19 (U)
9/28/2020	0.747 (U)	1.54
3/9/2021		0.786 (U)
9/14/2021	1.03 (U)	
9/15/2021		1.84
Mean	0.7673	1.339
Std. Dev.	0.182	0.4544
Upper Lim.	1.18	2.371
Lower Lim.	0.3541	0.3074

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	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					
Mean	1.604	0.0804	0.1588	0.157	0.08588	0.1054
Std. Dev.	0.3955	0.0261	0.1448	0.1093	0.02643	0.04361
Upper Lim.	1.862	0.1	0.1641	0.2134	0.1	0.11
Lower Lim.	1.347	0.052	0.05529	0.08589	0.052	0.079

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.75				
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)					
Mean	0.2039	0.3713	0.1429	0.675	0.107	0.1185
Std. Dev.	0.1552	0.313	0.1586	0.4218	0.06664	0.06532
Upper Lim.	0.2722	0.5135	0.28	0.9494	0.14	0.13
Lower Lim.	0.09774	0.1749	0.052	0.4006	0.07	0.09

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						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			
Mean	0.1852	0.1364	0.0925	0.8313	0.9006	0.5667
Std. Dev.	0.1558	0.1776	0.02176	0.4835	0.4445	0.4567
Upper Lim.	0.2262	0.17	0.1	1.146	1.19	0.7808
Lower Lim.	0.09243	0.082	0.06	0.5167	0.6114	0.2378

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-102D	B-104D	B-111D	B-62
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				
1/30/2019						0.43
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				
10/21/2019						0.23 (J)
3/3/2020	<0.1	1.4				
8/11/2020		1.3				
8/12/2020	0.056 (J)					
8/13/2020						0.11
9/22/2020		0.99				
9/23/2020	<0.1					
9/24/2020						0.093 (J)
12/9/2020				0.33	0.33	
12/17/2020			0.079 (J)			
1/11/2021			0.077 (J)			
1/12/2021				0.36	0.32	
3/2/2021	0.059 (J)	0.93				
3/4/2021			0.11	0.43		
3/5/2021					0.51	
3/12/2021						0.11
9/9/2021						0.14
9/10/2021		2	0.083 (J)			
9/13/2021	0.069 (J)					
9/14/2021				0.5	0.57	
Mean	0.2868	1.178	0.08725	0.405	0.4325	0.1855
Std. Dev.	0.2338	0.3265	0.01537	0.07594	0.1266	0.1295
Upper Lim.	0.4095	1.391	0.11	0.5774	0.7199	0.3546
Lower Lim.	0.1193	0.9657	0.077	0.2326	0.1451	0.06003



# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

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	B-77	B-83	B-93
10/21/2019		0.13 (J)	
10/24/2019	0.096 (J)		
8/13/2020	<0.1		
8/14/2020		0.05 (J)	
8/19/2020			0.32
9/24/2020	<0.1		
9/25/2020		<0.1	
9/28/2020			0.3
3/4/2021	<0.1	0.071 (J)	
3/9/2021			0.34
9/14/2021	0.078 (J)		
9/15/2021			0.34
9/16/2021		0.066 (J)	
Mean	0.0948	0.0834	0.325
Std. Dev.	0.00955	0.0317	0.01915
Upper Lim.	0.1	0.1232	0.3685
Lower Lim.	0.078	0.02857	0.2815

# Confidence Interval

Constituent: Lead (mg/L)    Analysis Run 11/8/2021 2:54 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	<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					
Mean	0.0006273	0.0006785	0.0008881	0.0008784	0.0008149	0.0007161
Std. Dev.	0.0004481	0.0004481	0.0003057	0.0003097	0.0003834	0.0004487
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 11/8/2021 2:54 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-23
9/1/2016		<0.001				
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					
Mean	0.0005862	0.0007059	0.0005156	0.0007311	0.0006177	0.0009377
Std. Dev.	0.0004585	0.0004334	0.0004693	0.0003691	0.0004296	0.0002412
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	9E-05	7E-05	8.6E-05	0.00015	0.00014	6.6E-05

# Confidence Interval

Constituent: Lead (mg/L)    Analysis Run 11/8/2021 2:54 PM    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
Mean	0.0007478	0.0008147	0.001081	0.001664	0.0005984	0.0006273
Std. Dev.	0.0004149	0.001228	0.001106	0.001169	0.0006777	0.0004132
Upper Lim.	0.001	0.0004678	0.0011	0.0022	0.001	0.001
Lower Lim.	0.00012	0.0001549	0.00053	0.00095	5.1E-05	0.00011

# Confidence Interval

Constituent: Lead (mg/L)    Analysis Run 11/8/2021 2:54 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-9	B-100	B-102D	B-104D	B-111D	B-56
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)				0.00022 (J)
9/22/2020	0.00015 (J)					
9/25/2020		0.00021 (J)				
9/28/2020						9.1E-05 (J)
12/9/2020				5.1E-05 (J)	5.8E-05 (J)	
12/17/2020			3.7E-05 (J)			
1/11/2021			5E-05 (J)			
1/12/2021				<0.001	5.1E-05 (J)	
3/2/2021	0.00028 (J)					
3/3/2021						0.0001 (J)
3/4/2021			5.9E-05 (J)	<0.001		
3/5/2021					<0.001	
3/8/2021		0.00018 (J)				
9/10/2021	<0.001		<0.001			
9/13/2021		<0.001				<0.001
9/14/2021				<0.001	<0.001	
Mean	0.00084	0.0003695	0.0002865	0.0007628	0.0005273	0.0003528
Std. Dev.	0.0003323	0.0004235	0.0004758	0.0004745	0.0005459	0.0004355
Upper Lim.	0.001	0.0003036	0.001	0.001	0.001	0.0002854
Lower Lim.	0.00028	5.528E-05	3.7E-05	5.1E-05	5.1E-05	3.627E-05

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-63	B-82	B-88	B-93
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		5.9E-05 (J)	0.00081 (J)	
8/19/2020				0.00012 (J)
9/25/2020			0.00035 (J)	
9/28/2020		0.00011 (J)		0.00012 (J)
3/5/2021			0.012	
3/9/2021				<0.001
9/13/2021			<0.001	
9/14/2021	<0.001	<0.001		
9/15/2021				<0.001
Mean	0.00053	0.0004658	0.00354	0.00056
Std. Dev.	0.0005428	0.000489	0.005647	0.0005081
Upper Lim.	0.001	0.0001911	0.02767	0.001
Lower Lim.	4.7E-05	4.858E-05	4.865E-05	0.00012

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	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)					
Mean	0.005343	0.003186	0.01064	0.004879	0.00472	0.00625
Std. Dev.	0.004279	0.003418	0.006685	0.004297	0.003078	0.0008465
Upper Lim.	0.006793	0.0028	0.015	0.0036	0.0044	0.0066
Lower Lim.	0.002702	0.0019	0.0011	0.0029	0.0032	0.0058

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.0034 (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					
Mean	0.009434	0.003993	0.04906	0.006407	0.00656	0.00484
Std. Dev.	0.007057	0.003053	0.03031	0.005611	0.00236	0.002836
Upper Lim.	0.015	0.0035	0.085	0.012	0.0065	0.0046
Lower Lim.	0.00096	0.003	0.023	0.0021	0.0057	0.0037



# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						0.0026 (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)			
Mean	0.01165	0.003786	0.01137	0.06622	0.1165	0.006343
Std. Dev.	0.01832	0.003256	0.001928	0.01232	0.01544	0.003062
Upper Lim.	0.01279	0.0035	0.01268	0.07457	0.1269	0.008199
Lower Lim.	0.003816	0.0025	0.01007	0.05787	0.106	0.004206

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100	B-102D	B-104D	B-56
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)			0.0056 (J)
9/22/2020		0.025 (J)				
9/23/2020	0.0045 (J)					
9/25/2020			0.0027 (J)			
9/28/2020						0.005 (J)
12/9/2020					0.039 (J)	
12/17/2020				0.012 (J)		
1/11/2021				0.015 (J)		
1/12/2021					0.039	
3/2/2021	0.0046 (J)	0.028 (J)				
3/3/2021						0.0051 (J)
3/4/2021				0.014 (J)	0.038	
3/8/2021			0.0024 (J)			
9/10/2021		0.027 (J)		0.012 (J)		
9/13/2021	0.0034 (J)		0.0022 (J)			0.0055 (J)
9/14/2021					0.036	
Mean	0.006036	0.02629	0.00215	0.01325	0.038	0.0053
Std. Dev.	0.002823	0.004445	0.0006028	0.0015	0.001414	0.0002944
Upper Lim.	0.0072	0.02931	0.003519	0.01666	0.04121	0.005968
Lower Lim.	0.0045	0.02328	0.0007815	0.009844	0.03479	0.004632

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-62	B-63	B-83	B-93
1/28/2019		<0.03		
1/30/2019	<0.03			
9/11/2019	0.0078 (J)	0.0064 (J)		
10/21/2019	0.0078 (J)		0.003 (J)	
10/22/2019		0.0062 (J)		
8/13/2020	0.0087 (J)			
8/14/2020			0.0045 (J)	
8/19/2020				0.011 (J)
9/24/2020	0.0084 (J)			
9/25/2020			0.0018 (J)	
9/28/2020				0.011 (J)
3/4/2021			0.0024 (J)	
3/9/2021				0.012 (J)
3/12/2021	0.0087 (J)	0.0066 (J)		
9/9/2021	0.0094 (J)			
9/14/2021		0.0064 (J)		
9/15/2021				0.011 (J)
9/16/2021			0.0021 (J)	
Mean	0.0094	0.00812	0.00276	0.01125
Std. Dev.	0.002532	0.003849	0.001069	0.0005
Upper Lim.	0.015	0.015	0.004551	0.012
Lower Lim.	0.0078	0.0062	0.0009685	0.011

# Confidence Interval

Constituent: Mercury (mg/L)    Analysis Run 11/8/2021 2:54 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	7E-05 (J)	5E-05 (J)			5E-05 (J)	
9/1/2016			9E-05 (J)			
9/6/2016				<0.0002		<0.0002
12/6/2016	9E-05 (J)	8E-05 (J)			8E-05 (J)	
12/7/2016			<0.0002	9E-05 (J)		<0.0002
3/29/2017	8E-05 (J)	6E-05 (J)	0.00014 (J)		6E-05 (J)	
3/30/2017				7E-05 (J)		6E-05 (J)
7/12/2017	<0.0002	<0.0002	8E-05 (J)	<0.0002	<0.0002	<0.0002
10/24/2017	<0.0002	<0.0002				
10/25/2017			6E-05 (J)		<0.0002	<0.0002
11/15/2017				<0.0002		
2/27/2018	<0.0002	<0.0002	6E-05 (J)		<0.0002	
2/28/2018				<0.0002		<0.0002
7/11/2018			3.6E-05 (J)		<0.0002	<0.0002
11/6/2018	<0.0002	<0.0002				
11/7/2018			<0.0002	<0.0002	<0.0002	<0.0002
8/27/2019	<0.0002	<0.0002	<0.0002		<0.0002	
8/28/2019				<0.0002		<0.0002
9/17/2019			<0.0002			
10/15/2019	<0.0002	<0.0002	<0.0002			
10/16/2019				<0.0002	<0.0002	
10/17/2019						<0.0002
3/2/2020		<0.0002	<0.0002			
3/3/2020	<0.0002			<0.0002	<0.0002	<0.0002
8/11/2020	<0.0002	<0.0002	<0.0002		<0.0002	
8/12/2020				<0.0002		
8/13/2020						<0.0002
9/22/2020		<0.0002	<0.0002		<0.0002	
9/23/2020				<0.0002		<0.0002
9/24/2020	8.1E-05 (J)					
3/2/2021		<0.0002		<0.0002	<0.0002	<0.0002
3/3/2021			<0.0002			
3/4/2021	<0.0002					
9/9/2021		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/10/2021	<0.0002					
Mean	0.0001658	0.0001707	0.0001541	0.0001829	0.0001727	0.0001907
Std. Dev.	5.628E-05	5.85E-05	6.456E-05	4.375E-05	5.688E-05	3.615E-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 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		4E-05 (J)				
9/2/2016				<0.0002	6E-05 (J)	5E-05 (J)
9/7/2016	6E-05 (J)					
12/7/2016		5E-05 (J)		8E-05 (J)		
12/8/2016	<0.0002				<0.0002	<0.0002
3/29/2017		9E-05 (J)		8E-05 (J)		0.0001 (J)
3/30/2017	0.00012 (J)		7E-05 (J)		8E-05 (J)	
5/11/2017			8.3E-05 (J)			
6/15/2017			8E-05 (J)			
7/11/2017			<0.0002			
7/12/2017	5E-05 (J)	<0.0002		<0.0002	6E-05 (J)	
7/13/2017						<0.0002
10/24/2017			<0.0002			
10/25/2017	5E-05 (J)	<0.0002		<0.0002	5E-05 (J)	<0.0002
2/27/2018			<0.0002			
2/28/2018	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
7/11/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
7/12/2018						5.5E-05 (J)
11/6/2018			0.00064			
11/7/2018	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
8/27/2019	0.00016 (J)		<0.0002			
8/28/2019		<0.0002				
8/29/2019				<0.0002	<0.0002	<0.0002
10/16/2019		<0.0002				
10/17/2019			<0.0002	<0.0002	<0.0002	
10/18/2019	<0.0002					<0.0002
3/3/2020		<0.0002	<0.0002		<0.0002	<0.0002
3/4/2020	<0.0002			<0.0002		
8/11/2020		<0.0002	<0.0002			
8/13/2020				<0.0002		
8/14/2020	9.8E-05 (J)				<0.0002	<0.0002
9/22/2020		<0.0002		<0.0002		
9/23/2020			<0.0002			
9/24/2020	8.2E-05 (J)				0.00012 (J)	<0.0002
3/2/2021		<0.0002	<0.0002	9E-05 (J)		
3/3/2021	<0.0002				<0.0002	<0.0002
9/9/2021		<0.0002	<0.0002		<0.0002	
9/10/2021				<0.0002		0.00011 (J)
9/13/2021	8.6E-05 (J)					
Mean	0.0001404	0.000172	0.0002049	0.0001767	0.000158	0.0001677
Std. Dev.	6.361E-05	5.882E-05	0.0001304	4.835E-05	6.327E-05	5.729E-05
Upper Lim.	0.0002	0.0002	0.00064	0.0002	0.0002	0.0002
Lower Lim.	6E-05	9E-05	8.3E-05	9E-05	6E-05	0.0001

# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-48	DGWC-5	DGWC-8
8/30/2016						9E-05 (J)
8/31/2016					0.00015 (J)	
9/1/2016				<0.0002		
9/7/2016			<0.0002			
12/6/2016					0.00012 (J)	0.0001 (J)
12/8/2016			<0.0002	<0.0002		
3/28/2017		<0.0002			0.00017 (J)	
3/29/2017						0.00012 (J)
3/30/2017	0.0002 (J)			6E-05 (J)		
3/31/2017			4E-05 (J)			
5/12/2017	0.00015 (J)	8.2E-05 (J)				
6/15/2017	0.00019 (J)	8E-05 (J)				
7/11/2017		<0.0002			0.0002 (J)	6E-05 (J)
7/12/2017	0.00012 (J)					
7/13/2017			<0.0002	<0.0002		
10/24/2017		<0.0002				<0.0002
10/25/2017			<0.0002		9E-05 (J)	
10/26/2017	0.00012 (J)			<0.0002		
2/27/2018		<0.0002			9E-05 (J)	4.2E-05 (J)
2/28/2018			<0.0002			
3/1/2018	<0.0002					
3/2/2018				<0.0002		
7/11/2018			<0.0002			
7/12/2018	0.00016 (J)			<0.0002		
11/6/2018		0.00059			0.00055	<0.0002
11/7/2018			<0.0002	<0.0002		
11/8/2018	<0.0002					
8/27/2019		<0.0002			0.00016 (J)	
8/28/2019			<0.0002			<0.0002
8/29/2019	<0.0002			<0.0002		
10/15/2019		<0.0002				
10/16/2019					<0.0002	<0.0002
10/17/2019			<0.0002			
10/18/2019	<0.0002			<0.0002		
3/2/2020		<0.0002			<0.0002	
3/3/2020						<0.0002
3/4/2020	0.00026		<0.0002	<0.0002		
8/12/2020		<0.0002			0.00017 (J)	7.9E-05 (J)
8/13/2020	0.00014 (J)		<0.0002	<0.0002		
9/22/2020		<0.0002	<0.0002		0.0002 (J)	
9/23/2020				<0.0002		<0.0002
9/24/2020	0.0002 (J)					
3/1/2021		<0.0002				
3/2/2021					9.4E-05 (J)	<0.0002
3/3/2021	0.00033		<0.0002	<0.0002		
9/9/2021	0.00011 (J)					
9/10/2021		0.00013 (J)		<0.0002	0.0003	
9/13/2021			<0.0002			<0.0002
Mean	0.0001853	0.0002059	0.0001893	0.0001907	0.0001924	0.0001494
Std. Dev.	5.73E-05	0.0001192	4.131E-05	3.615E-05	0.0001175	6.312E-05
Upper Lim.	0.0002053	0.00059	0.0002	0.0002	0.0002402	0.0002
Lower Lim.	0.0001241	0.00013	4E-05	6E-05	0.0001202	7.9E-05

# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-104D	B-111D	B-56	B-82	B-88
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)					
9/23/2019					<0.0002	
10/17/2019	0.00042 (J)					
10/21/2019					<0.0002	
3/3/2020	<0.0002					
8/11/2020	0.00026					
8/17/2020				0.00016 (J)	0.00011 (J)	0.00011 (J)
9/22/2020	0.00013 (J)					
9/25/2020						<0.0002
9/28/2020				<0.0002	<0.0002	
12/9/2020		7.9E-05 (J)	9.4E-05 (J)			
1/12/2021		<0.0002	<0.0002			
3/2/2021	0.00017 (J)					
3/3/2021				<0.0002		
3/4/2021		<0.0002				
3/5/2021			<0.0002			0.0001 (J)
9/10/2021	0.00014 (J)					
9/13/2021				<0.0002		<0.0002
9/14/2021		<0.0002	<0.0002		<0.0002	
Mean	0.0001881	0.0001697	0.0001735	0.00019	0.000182	0.0001525
Std. Dev.	8.736E-05	6.05E-05	5.3E-05	2E-05	4.025E-05	5.5E-05
Upper Lim.	0.00021	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00013	7.9E-05	9.4E-05	0.00016	0.00011	0.0001

# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-93
8/19/2020	0.00026
9/28/2020	0.00024 (J)
3/9/2021	0.00015 (J)
9/15/2021	9.8E-05 (J)
Mean	0.000187
Std. Dev.	7.622E-05
Upper Lim.	0.00036
Lower Lim.	1.396E-05



# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-13	DGWC-2	DGWC-23	DGWC-4	B-104D	B-111D
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)			
12/9/2020				0.0012 (J)	0.0055 (J)	
1/12/2021				<0.01	0.0054 (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					0.0067 (J)	
9/9/2021	0.011	0.0023 (J)	0.01			
9/10/2021				0.0052 (J)		
9/14/2021				<0.01	0.013	
Mean	0.01961	0.005093	0.008993	0.006007	0.0078	0.00765
Std. Dev.	0.009301	0.004167	0.003208	0.001765	0.0044	0.003615
Upper Lim.	0.0262	0.01	0.01117	0.007258	0.01	0.01817
Lower Lim.	0.01302	0.0018	0.00682	0.004757	0.0012	0.002799

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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)
3/5/2021		<0.01
9/13/2021		<0.01
9/14/2021	<0.01	
Mean	0.005825	0.0056
Std. Dev.	0.004822	0.005081
Upper Lim.	0.01	0.01
Lower Lim.	0.0015	0.0012

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 2:54 PM 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
Mean	0.03752	0.003931	0.004307	0.004227	0.00512	0.007953
Std. Dev.	0.0217	0.002266	0.00244	0.002257	0.001582	0.002359
Upper Lim.	0.05289	0.005	0.004442	0.01	0.01	0.009189
Lower Lim.	0.02215	0.0017	0.0019	0.0017	0.0018	0.006423

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 2:54 PM 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)
Mean	0.00736	0.005193	0.05061	0.00478	0.004743	0.009133
Std. Dev.	0.00234	0.001557	0.02481	0.0008521	0.0009621	0.005718
Upper Lim.	0.008946	0.0053	0.06742	0.005	0.005	0.01301
Lower Lim.	0.005774	0.0045	0.0338	0.0017	0.0014	0.005259

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-100	B-104D
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	
12/9/2020						<0.005
1/12/2021						0.0016 (J)
3/2/2021		0.0081	<0.005	0.07		
3/3/2021	0.0025 (J)					
3/4/2021						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	
9/14/2021						<0.005
Mean	0.00582	0.03263	0.004586	0.09144	0.004225	0.003675
Std. Dev.	0.003285	0.04214	0.002144	0.0581	0.00155	0.001648
Upper Lim.	0.008046	0.0457	0.00408	0.1308	0.005	0.004053
Lower Lim.	0.003594	0.00964	0.002153	0.05207	0.0019	0.0006472

# Confidence Interval

Constituent: Selenium (mg/L)    Analysis Run 11/8/2021 2:54 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-111D	B-56	B-77	B-82	B-83	B-88
9/18/2019			<0.005			
9/23/2019				<0.005		
10/21/2019				0.0016 (J)	0.0082 (J)	
10/24/2019			<0.005			
8/13/2020			<0.005			
8/14/2020					0.015	
8/17/2020		0.011		<0.005		0.0017 (J)
9/24/2020			<0.005			
9/25/2020					0.019	0.0033 (J)
9/28/2020		0.029		0.0021 (J)		
12/9/2020	<0.005					
1/12/2021	<0.005					
3/3/2021		0.013				
3/4/2021			0.0017 (J)		0.024	
3/5/2021	0.0022 (J)					0.0033 (J)
9/13/2021		0.011				0.0021 (J)
9/14/2021	<0.005		<0.005	<0.005		
9/16/2021					0.025	
Mean	0.0043	0.016	0.00445	0.00374	0.01824	0.0026
Std. Dev.	0.0014	0.008718	0.001347	0.001734	0.006906	0.0008246
Upper Lim.	0.005	0.029	0.005	0.005	0.02981	0.004472
Lower Lim.	0.0022	0.011	0.0017	0.0016	0.006668	0.0007278

# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 2:54 PM 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		<0.001		0.0005 (J)		
9/2/2016					<0.001	<0.001
9/7/2016			<0.001			
12/6/2016	0.0004 (J)					
12/7/2016		<0.001		0.0005 (J)	0.0006 (J)	
12/8/2016			<0.001			<0.001
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	<0.001	<0.001				
2/28/2018			0.00015 (J)	0.00049 (J)	<0.001	<0.001
7/11/2018		<0.001	0.00017 (J)	0.0005 (J)	<0.001	
7/12/2018						<0.001
11/6/2018	<0.001 (J)					
11/7/2018		<0.001	<0.001	<0.001 (J)	<0.001 (J)	<0.001
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)			<0.001
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)	<0.001		0.00059 (J)		
8/13/2020					0.0016 (J)	
8/14/2020			0.00019 (J)			<0.001
9/22/2020		<0.001		0.0005 (J)	0.00055 (J)	
9/24/2020	0.00034 (J)		0.00018 (J)			<0.001
3/2/2021				0.00056 (J)	0.0014 (J)	
3/3/2021		<0.001	0.00017 (J)			<0.001
3/4/2021	0.00042 (J)					
9/9/2021		<0.001		0.00056 (J)		
9/10/2021	0.00027 (J)				0.00052 (J)	<0.001
9/13/2021			<0.001			
Mean	0.0004907	0.0006042	0.000398	0.000544	0.000942	0.0006889
Std. Dev.	0.0002285	0.0004636	0.0003761	0.0001384	0.0004995	0.0004554
Upper Lim.	0.0006	0.001	0.001	0.00059	0.000988	0.001
Lower Lim.	0.00036	9E-05	0.00017	0.00049	0.0005219	6.4E-05

# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 2:54 PM 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					<0.001	
9/1/2016			0.0002 (J)	<0.001		
9/7/2016		<0.001				
12/6/2016					<0.001	<0.001
12/8/2016		<0.001	<0.001	<0.001		
3/28/2017	<0.001				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	<0.001					
6/15/2017	<0.001					
7/11/2017	<0.001				<0.001	0.0001 (J)
7/13/2017		9E-05 (J)	0.0002 (J)	8E-05 (J)		
10/24/2017	<0.001					0.0003 (J)
10/25/2017		9E-05 (J)			<0.001	
10/26/2017			0.0003 (J)	9E-05 (J)		
2/27/2018	<0.001				<0.001	0.00033 (J)
2/28/2018		<0.001				
3/1/2018			0.00032 (J)			
3/2/2018				<0.001		
7/11/2018		<0.001				
7/12/2018			0.00031 (J)	<0.001		
11/6/2018	<0.001				<0.001	<0.001 (J)
11/7/2018		<0.001	<0.001 (J)	<0.001		
8/27/2019	<0.001				<0.001	
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		<0.001	0.00025 (J)			
10/18/2019				<0.001		
3/2/2020	<0.001				6.2E-05 (J)	
3/3/2020						0.00023 (J)
3/4/2020		<0.001	0.00021 (J)	6.8E-05 (J)		
8/12/2020	<0.001		0.00018 (J)		<0.001	0.00023 (J)
8/13/2020		<0.001		<0.001		
9/22/2020	<0.001	<0.001			<0.001	
9/23/2020			0.00026 (J)	<0.001		0.0002 (J)
3/1/2021	<0.001					
3/2/2021					<0.001	0.00019 (J)
3/3/2021		<0.001	0.00023 (J)	<0.001		
9/10/2021	<0.001		0.00036 (J)	<0.001	<0.001	
9/13/2021		<0.001				0.00019 (J)
Mean	0.0009338	0.0007559	0.0003513	0.0006937	0.00081	0.0003886
Std. Dev.	0.0002478	0.000419	0.0002684	0.0004484	0.0003787	0.0003356
Upper Lim.	0.001	0.001	0.00036	0.001	0.001	0.001
Lower Lim.	7.3E-05	9E-05	0.0002	8E-05	0.0002	0.00019

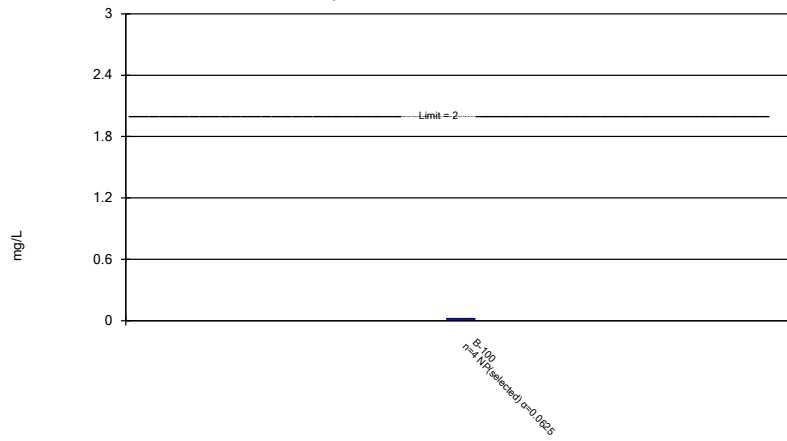


# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 2:54 PM 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	<0.001				
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	<0.001				
11/6/2018	<0.001				
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	<0.001				
8/14/2020				<0.001	
8/17/2020		0.00016 (J)	<0.001		<0.001
9/22/2020	0.00043 (J)				
9/25/2020				<0.001	<0.001
9/28/2020		0.00023 (J)	<0.001		
3/2/2021	<0.001				
3/3/2021		0.00026 (J)			
3/4/2021				<0.001	
3/5/2021					0.0002 (J)
9/10/2021	0.0004 (J)				
9/13/2021		0.00024 (J)			<0.001
9/14/2021			<0.001		
9/16/2021				<0.001	
Mean	0.0007027	0.0002225	0.0006418	0.0008144	0.0008
Std. Dev.	0.0002443	4.349E-05	0.0004905	0.000415	0.0004
Upper Lim.	0.001	0.0003212	0.001	0.001	0.001
Lower Lim.	0.00043	0.0001238	9.9E-05	7.2E-05	0.0002

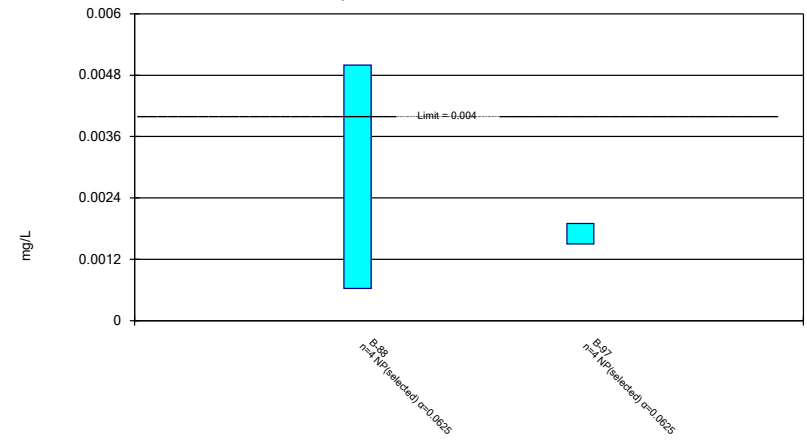
Non-Parametric Confidence Interval  
Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Barium Analysis Run 11/8/2021 2:53 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

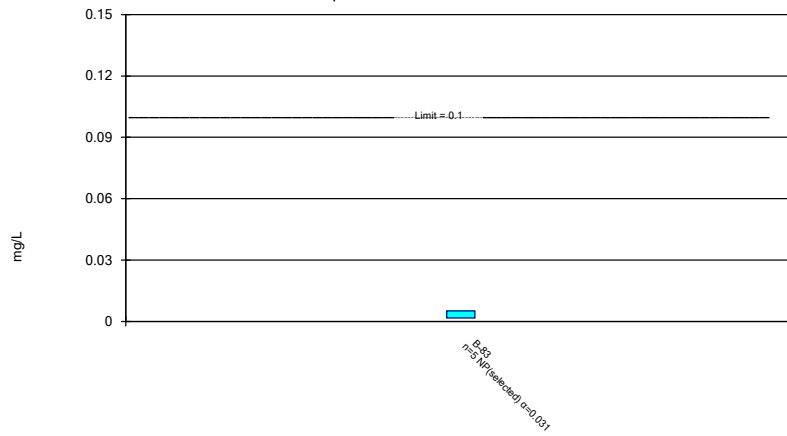
Non-Parametric Confidence Interval  
Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Beryllium Analysis Run 11/8/2021 2:53 PM View: AP 234 Confidence Intervals Nonparametri  
Plant McDonough Client: Southern Company Data: McDonough AP

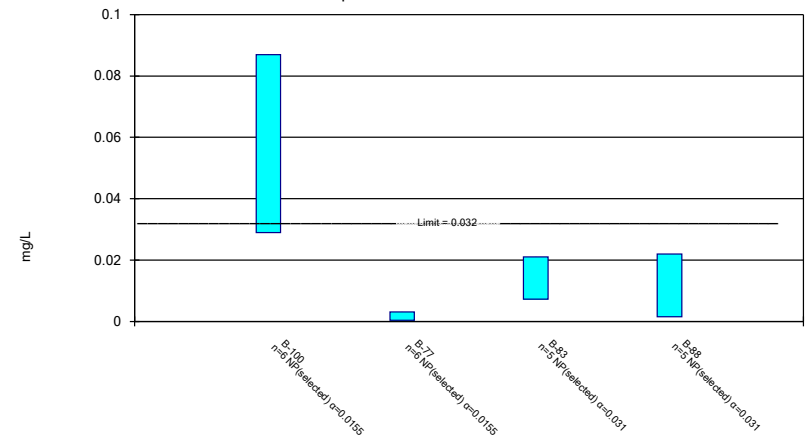
Non-Parametric Confidence Interval  
Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Chromium Analysis Run 11/8/2021 2:53 PM View: AP 234 Confidence Intervals Nonparametr  
Plant McDonough Client: Southern Company Data: McDonough AP

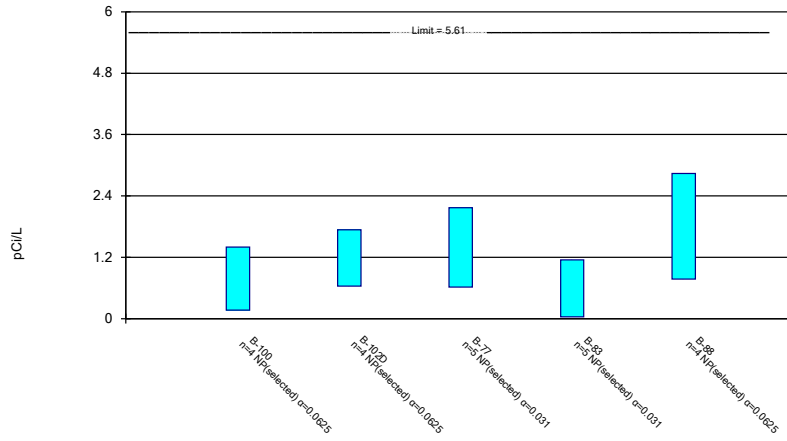
Non-Parametric Confidence Interval  
Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Cobalt Analysis Run 11/8/2021 2:53 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

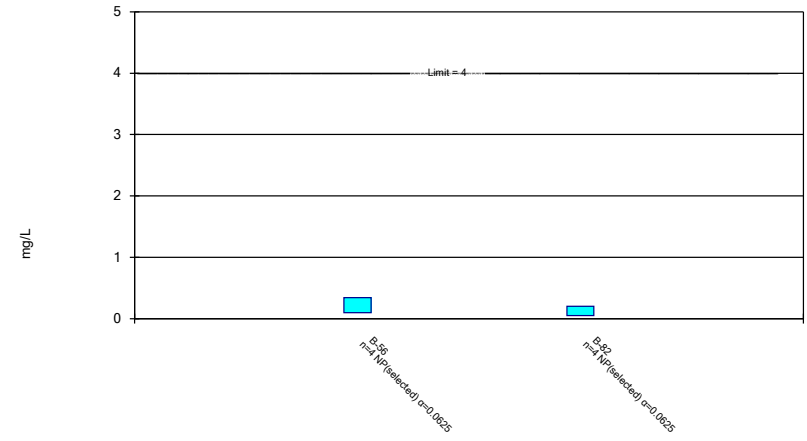
Non-Parametric Confidence Interval  
Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:53 PM View: AP 234 Confidence Inte  
Plant McDonough Client: Southern Company Data: McDonough AP

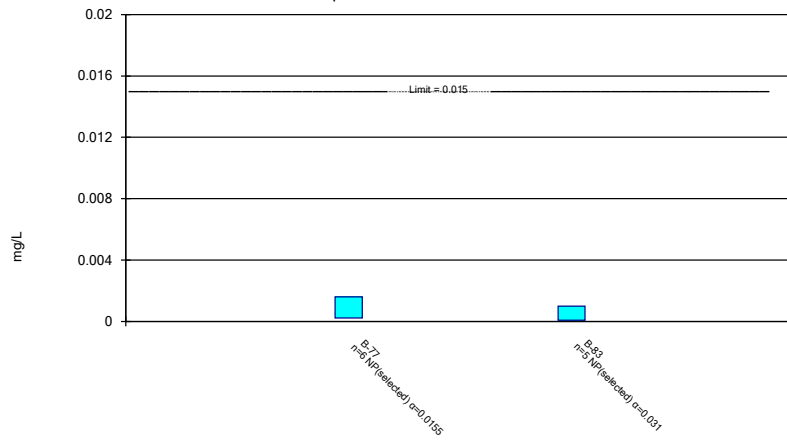
Non-Parametric Confidence Interval  
Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Fluoride, total Analysis Run 11/8/2021 2:53 PM View: AP 234 Confidence Intervals Nonpara  
Plant McDonough Client: Southern Company Data: McDonough AP

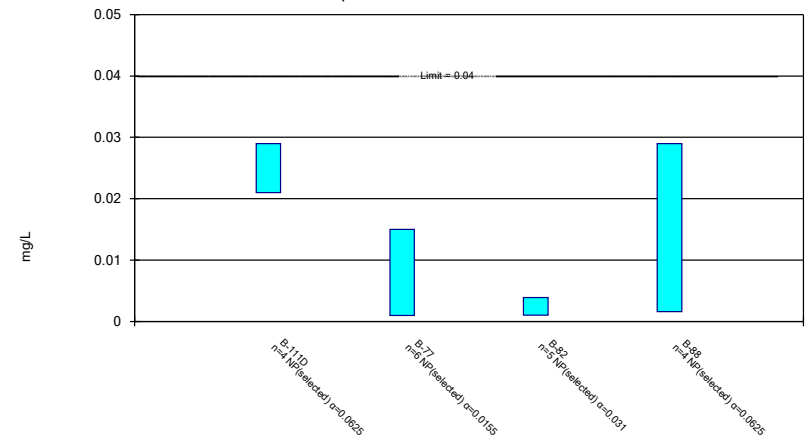
Non-Parametric Confidence Interval  
Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Lead Analysis Run 11/8/2021 2:53 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval  
Compliance Limit is not exceeded.

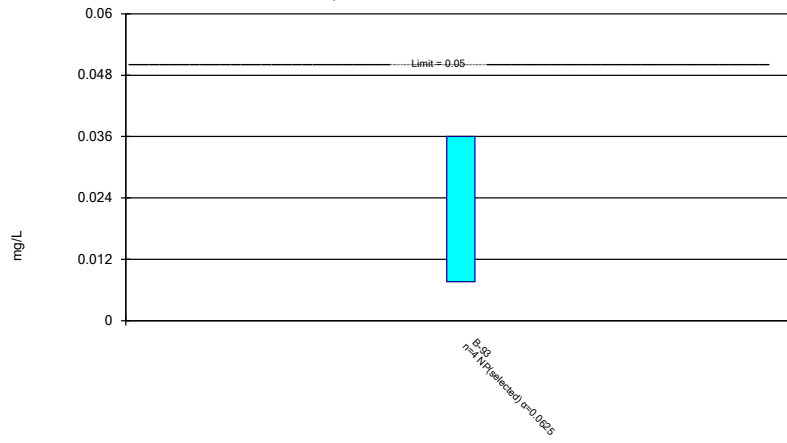


Normality testing disabled.

Constituent: Lithium Analysis Run 11/8/2021 2:53 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Selenium Analysis Run 11/8/2021 2:53 PM View: AP 234 Confidence Intervals Nonparametri  
Plant McDonough Client: Southern Company Data: McDonough AP

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-100
8/17/2020	0.015
9/25/2020	0.022
3/8/2021	0.022
9/13/2021	0.021
Mean	0.02
Std. Dev.	0.003367
Upper Lim.	0.022
Lower Lim.	0.015

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-88	B-97
2/17/2020		<0.003
2/27/2020		0.0019 (J)
8/17/2020	0.0014 (J)	
9/25/2020	0.00063 (J)	
3/5/2021	0.005	
3/9/2021		0.0019
9/13/2021	0.001	
9/15/2021		0.0016
Mean	0.002008	0.001725
Std. Dev.	0.00202	0.0002062
Upper Lim.	0.005	0.0019
Lower Lim.	0.00063	0.0015

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-83
10/21/2019	0.0017 (J)
8/14/2020	0.005 (J)
9/25/2020	0.0051 (J)
3/4/2021	0.0049 (J)
9/16/2021	0.003 (J)
Mean	0.00394
Std. Dev.	0.001524
Upper Lim.	0.0051
Lower Lim.	0.0017

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals Nonparametric  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-77	B-83	B-88
9/18/2019		0.0031 (J)		
10/21/2019			0.018	
10/24/2019		0.0021 (J)		
11/22/2019				0.018 (J)
7/23/2020	0.086			
8/3/2020	0.087			
8/13/2020		0.0011 (J)		
8/14/2020			0.021	
8/17/2020	0.077			0.0031 (J)
9/24/2020		0.0004 (J)		
9/25/2020	0.034		0.0073	0.0015 (J)
3/4/2021		0.0017 (J)	0.0099	
3/5/2021				0.022
3/8/2021	0.029			
9/13/2021	0.035			0.0018 (J)
9/14/2021		<0.005		
9/16/2021			0.011	
Mean	0.058	0.001817	0.01344	0.00928
Std. Dev.	0.02804	0.0009725	0.005791	0.009906
Upper Lim.	0.087	0.0031	0.021	0.022
Lower Lim.	0.029	0.0004	0.0073	0.0015



# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals Nonparametric

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-102D	B-77	B-83	B-88
10/21/2019				0.792 (U)	
10/24/2019			1.87		
8/13/2020			2.17		
8/14/2020				0.95 (U)	
8/17/2020	1.4 (U)				2.47
9/24/2020			0.761 (U)		
9/25/2020	0.799 (U)			0.0359 (U)	0.925 (U)
12/17/2020		1.22 (U)			
1/11/2021		0.635 (U)			
3/4/2021		0.789 (U)	2.16	1.15 (U)	
3/5/2021					2.84
3/8/2021	0.168 (U)				
9/10/2021		1.74			
9/13/2021	0.774 (U)				0.771 (U)
9/14/2021			0.617 (U)		
9/16/2021				0.442 (U)	
Mean	0.7853	1.096	1.516	0.674	1.752
Std. Dev.	0.5031	0.4956	0.7658	0.4409	1.056
Upper Lim.	1.4	1.74	2.17	1.15	2.84
Lower Lim.	0.168	0.635	0.617	0.0359	0.771

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals Nonparametric

Plant McDonough Client: Southern Company Data: McDonough AP

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	B-56	B-82
10/21/2019		0.2 (J)
8/17/2020	0.19	<0.1
9/28/2020	0.098 (J)	<0.1
3/3/2021	0.34	
9/13/2021	0.2	
9/14/2021		0.052 (J)
Mean	0.207	0.113
Std. Dev.	0.09985	0.06226
Upper Lim.	0.34	0.2
Lower Lim.	0.098	0.052

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-77	B-83
9/18/2019	0.00032 (J)	
10/21/2019		0.00012 (J)
10/24/2019	<0.001	
8/13/2020	0.0016 (J)	
8/14/2020		0.00092 (J)
9/24/2020	0.00021 (J)	
9/25/2020		6.5E-05 (J)
3/4/2021	0.00029 (J)	0.00017 (J)
9/14/2021	<0.001	
9/16/2021		<0.001
Mean	0.0007367	0.000455
Std. Dev.	0.000554	0.0004634
Upper Lim.	0.0016	0.001
Lower Lim.	0.00021	6.5E-05

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-111D	B-77	B-82	B-88
9/18/2019		0.0047 (J)		
9/23/2019			0.0039 (J)	
10/21/2019			0.0036 (J)	
10/24/2019		0.0036 (J)		
8/13/2020		0.0018 (J)		
8/17/2020			0.0016 (J)	0.006 (J)
9/24/2020		0.00095 (J)		
9/25/2020				0.0016 (J)
9/28/2020			0.001 (J)	
12/9/2020	0.021 (J)			
1/12/2021	0.021 (J)			
3/4/2021		0.0011 (J)		
3/5/2021	0.028 (J)			0.029 (J)
9/13/2021				0.0017 (J)
9/14/2021	0.029 (J)	<0.03	0.001 (J)	
Mean	0.02475	0.004525	0.00222	0.009575
Std. Dev.	0.004349	0.005339	0.001422	0.01311
Upper Lim.	0.029	0.015	0.0039	0.029
Lower Lim.	0.021	0.00095	0.001	0.0016

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 2:54 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-93
8/19/2020	0.018
9/28/2020	0.036
3/9/2021	0.0099 (J)
9/15/2021	0.0076
Mean	0.01788
Std. Dev.	0.01288
Upper Lim.	0.036
Lower Lim.	0.0076

FIGURE J.

# State Confidence Intervals - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.03003	0.0172	0.01	Yes	15	0.02361	0.009468	6.667	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009208	0.005678	0.004	Yes	14	0.007443	0.002492	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01281	0.009018	0.004	Yes	15	0.01091	0.002797	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009234	0.007526	0.004	Yes	15	0.00838	0.00126	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008688	0.006197	0.004	Yes	14	0.007443	0.001758	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.005896	0.004931	0.004	Yes	15	0.005413	0.000712	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.01805	0.006467	0.004	Yes	5	0.01378	0.003942	0	None	x^3	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.1888	0.1413	0.032	Yes	14	0.1537	0.04866	0	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-19	0.05331	0.04925	0.032	Yes	15	0.05128	0.002996	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6394	0.4659	0.032	Yes	15	0.5575	0.1355	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3858	0.253	0.032	Yes	15	0.3194	0.09792	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.5073	0.402	0.032	Yes	15	0.4547	0.07771	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.0878	0.04412	0.032	Yes	14	0.06596	0.03083	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.201	0.1437	0.032	Yes	15	0.1724	0.04231	0	None	No	0.01	Param.
Cobalt (mg/L)	B-56	0.05421	0.03629	0.032	Yes	4	0.04525	0.003948	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.0547	0.0353	0.032	Yes	5	0.045	0.005788	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.069	0.0594	0.032	Yes	5	0.0642	0.002864	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-104D	21.26	6.892	5.61	Yes	4	14.08	3.164	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07457	0.05787	0.03	Yes	15	0.06622	0.01232	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1269	0.106	0.03	Yes	15	0.1165	0.01544	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.04121	0.03479	0.03	Yes	4	0.038	0.001414	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-9	0.1308	0.05207	0.05	Yes	15	0.09144	0.0581	0	None	No	0.01	Param.

# State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	B-100	0.001954	0.001046	0.006	No	4	0.00225	0.0008813	50	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	B-102D	0.003	0.0016	0.006	No	4	0.00265	0.0007	75	Kaplan-Meier	No	0.0625	NP (NDs)
Antimony (mg/L)	B-104D	0.001068	0.0003847	0.006	No	4	0.00126	0.001169	25	Kaplan-Meier	x^(1/3)	0.01	Param.
Antimony (mg/L)	B-111D	0.003	0.0006	0.006	No	4	0.0024	0.0012	75	Kaplan-Meier	No	0.0625	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.00046	0.006	No	7	0.002637	0.00096	85.71	Kaplan-Meier	No	0.008	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.00066	0.006	No	4	0.002415	0.00117	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00036	0.006	No	6	0.001737	0.001387	50	None	No	0.0155	NP (normality)
Antimony (mg/L)	B-93	0.003	0.0014	0.006	No	4	0.0026	0.0008	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	16	0.002831	0.000675	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	15	0.002873	0.0004906	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	15	0.002671	0.0008724	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	15	0.00283	0.0006584	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.00036	0.006	No	15	0.002824	0.0006816	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	15	0.00284	0.0006197	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	15	0.002847	0.0005939	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No	14	0.002491	0.001014	78.57	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No	15	0.00288	0.0004648	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	15	0.002746	0.0007213	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	14	0.002701	0.0007935	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.00046	0.006	No	14	0.002819	0.0006788	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-104D	0.002881	0.001519	0.01	No	4	0.0036	0.001635	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-111D	0.003281	0.001919	0.01	No	4	0.0038	0.001407	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-56	0.0047	0.003	0.01	No	4	0.0035	0.0008042	0	None	No	0.0625	NP (normality)
Arsenic (mg/L)	B-77	0.002882	0.001869	0.01	No	6	0.003233	0.001409	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	B-93	0.003589	0.0004108	0.01	No	4	0.0035	0.001824	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-10	0.00717	0.003601	0.01	No	14	0.005386	0.002519	7.143	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	16	0.004452	0.001498	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	15	0.004693	0.00119	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	15	0.004169	0.001726	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0008	0.01	No	15	0.003395	0.002042	60	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.002035	0.0009847	0.01	No	15	0.002317	0.001551	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No	15	0.004566	0.00118	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01666	0.007499	0.01	No	15	0.01208	0.006761	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No	15	0.004733	0.001033	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0008	0.01	No	14	0.004057	0.001875	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	15	0.004453	0.001445	86.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.002647	0.001328	0.01	No	15	0.002627	0.001504	20	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.0008	0.01	No	15	0.003206	0.002005	53.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.0118	0.002817	0.01	No	14	0.008443	0.009971	14.29	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.005	0.0012	0.01	No	14	0.00369	0.001839	64.29	None	No	0.01	NP (NDs)
<b>Arsenic (mg/L)</b>	<b>DGWC-9</b>	<b>0.03003</b>	<b>0.0172</b>	<b>0.01</b>	<b>Yes</b>	<b>15</b>	<b>0.02361</b>	<b>0.009468</b>	<b>6.667</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Barium (mg/L)	B-100	0.022	0.015	2	No	4	0.02	0.003367	0	None	No	0.0625	NP (selected)
Barium (mg/L)	B-102D	0.02571	0.01829	2	No	4	0.022	0.001633	0	None	No	0.01	Param.
Barium (mg/L)	B-104D	0.026	0.021	2	No	4	0.0225	0.00238	0	None	No	0.0625	NP (normality)
Barium (mg/L)	B-111D	0.05204	0.01546	2	No	4	0.03375	0.008057	0	None	No	0.01	Param.
Barium (mg/L)	B-56	0.03185	0.02315	2	No	4	0.0275	0.001915	0	None	No	0.01	Param.
Barium (mg/L)	B-62	0.02758	0.01985	2	No	7	0.02371	0.003251	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.03208	0.01592	2	No	4	0.024	0.003559	0	None	No	0.01	Param.
Barium (mg/L)	B-66	0.01942	0.01508	2	No	4	0.01725	0.0009574	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.1255	0.08983	2	No	6	0.1077	0.01299	0	None	No	0.01	Param.



# State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	B-82	0.03301	0.01899	2	No	5	0.026	0.004183	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.05537	0.02029	2	No	5	0.0358	0.01158	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	B-88	0.02418	-0.01405	2	No	4	0.02025	0.002872	0	None	x^5	0.01	Param.
Barium (mg/L)	B-93	0.01892	0.01458	2	No	4	0.01675	0.0009574	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.02962	0.02305	2	No	14	0.02634	0.004637	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06644	0.05633	2	No	14	0.06139	0.007138	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03199	0.02415	2	No	16	0.02824	0.006231	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03292	0.02732	2	No	14	0.02908	0.007369	7.143	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06261	0.05787	2	No	15	0.06024	0.003493	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.05073	0.0443	2	No	15	0.04751	0.004744	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05635	0.04167	2	No	15	0.04901	0.01083	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02541	0.02177	2	No	15	0.02359	0.002686	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02268	0.02132	2	No	15	0.022	0.001	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01537	0.009179	2	No	15	0.01227	0.004566	6.667	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.024	2	No	15	0.02596	0.001505	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03773	0.03193	2	No	15	0.03483	0.004281	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.0236	0.01844	2	No	15	0.02113	0.004092	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03617	0.0322	2	No	14	0.03419	0.002802	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.0205	0.01622	2	No	15	0.01836	0.003153	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-47	0.01975	0.01597	2	No	15	0.01786	0.002794	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.01436	0.01298	2	No	15	0.01367	0.001016	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-5	0.01834	0.01649	2	No	13	0.01742	0.001247	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03806	0.02666	2	No	14	0.03236	0.008048	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.01623	0.01484	2	No	15	0.01553	0.00103	0	None	No	0.01	Param.
Beryllium (mg/L)	B-100	0.0006113	0.0002587	0.004	No	4	0.000435	0.00007767	0	None	No	0.01	Param.
Beryllium (mg/L)	B-102D	0.001543	0.0009569	0.004	No	4	0.00125	0.0001291	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.001785	0.0009153	0.004	No	4	0.00135	0.0001915	0	None	No	0.01	Param.
Beryllium (mg/L)	B-56	0.001385	0.001015	0.004	No	4	0.0012	0.00008165	0	None	No	0.01	Param.
Beryllium (mg/L)	B-62	0.0005	0.000078	0.004	No	8	0.0002085	0.000181	25	None	No	0.004	NP (normality)
Beryllium (mg/L)	B-63	0.0004803	0.0003037	0.004	No	6	0.00041	0.00007797	16.67	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	B-77	0.0001464	0.00004658	0.004	No	6	0.0002267	0.0002142	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Beryllium (mg/L)	B-82	0.001807	0.001073	0.004	No	5	0.00144	0.0002191	0	None	No	0.01	Param.
Beryllium (mg/L)	B-83	0.0006999	0.0001718	0.004	No	5	0.000404	0.000173	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	B-88	0.005	0.00063	0.004	No	4	0.002008	0.00202	0	None	No	0.0625	NP (selected)
<b>Beryllium (mg/L)</b>	<b>B-93</b>	<b>0.01805</b>	<b>0.006467</b>	<b>0.004</b>	<b>Yes</b>	<b>5</b>	<b>0.01378</b>	<b>0.003942</b>	<b>0</b>	<b>None</b>	<b>x^3</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	B-97	0.0019	0.0015	0.004	No	4	0.001725	0.0002062	25	None	No	0.0625	NP (selected)
Beryllium (mg/L)	B-98	0.00087	0.0005	0.004	No	4	0.0005925	0.000185	75	None	No	0.0625	NP (NDs)
<b>Beryllium (mg/L)</b>	<b>DGWC-10</b>	<b>0.009208</b>	<b>0.005678</b>	<b>0.004</b>	<b>Yes</b>	<b>14</b>	<b>0.007443</b>	<b>0.002492</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	DGWC-11	0.003	0.00013	0.004	No	14	0.0004964	0.0007432	50	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00049	0.00011	0.004	No	16	0.0003943	0.0007051	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No	14	0.0005256	0.000742	64.29	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	15	0.0006185	0.0006715	86.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.0006188	0.0005265	0.004	No	15	0.0005727	0.00006808	13.33	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-19	0.0021	0.0017	0.004	No	15	0.001907	0.0004978	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-20	0.004866	0.002215	0.004	No	15	0.003673	0.002056	13.33	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0005	0.0001	0.004	No	15	0.000374	0.0007325	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.0005	0.00014	0.004	No	15	0.000376	0.0007316	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	15	0.000618	0.0006665	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00028	0.00019	0.004	No	14	0.0004279	0.0007463	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002738	0.002049	0.004	No	15	0.002333	0.0006576	6.667	None	x^2	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>DGWC-47</b>	<b>0.01281</b>	<b>0.009018</b>	<b>0.004</b>	<b>Yes</b>	<b>15</b>	<b>0.01091</b>	<b>0.002797</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>

# State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
<b>Beryllium (mg/L)</b>	<b>DGWC-48</b>	<b>0.009234</b>	<b>0.007526</b>	<b>0.004</b>	<b>Yes</b>	<b>15</b>	<b>0.00838</b>	<b>0.00126</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Beryllium (mg/L)</b>	<b>DGWC-5</b>	<b>0.008688</b>	<b>0.006197</b>	<b>0.004</b>	<b>Yes</b>	<b>14</b>	<b>0.007443</b>	<b>0.001758</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	DGWC-8	0.003201	0.001685	0.004	No	14	0.002443	0.00107	7.143	None	No	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>DGWC-9</b>	<b>0.005896</b>	<b>0.004931</b>	<b>0.004</b>	<b>Yes</b>	<b>15</b>	<b>0.005413</b>	<b>0.000712</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cadmium (mg/L)	B-100	0.00059	0.00027	0.005	No	4	0.000355	0.000157	0	None	No	0.0625	NP (normality)
Cadmium (mg/L)	B-102D	0.0009243	0.0006021	0.005	No	4	0.0007775	0.00007274	0	None	x^2	0.01	Param.
Cadmium (mg/L)	B-56	0.0003178	0.0002172	0.005	No	4	0.0002675	0.00002217	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0003199	0.00007013	0.005	No	4	0.0003475	0.0001817	50	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	B-82	0.0007939	0.0002981	0.005	No	5	0.000546	0.0001479	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0004307	0.0002333	0.005	No	5	0.000332	0.00005891	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.008758	-0.003848	0.005	No	4	0.002455	0.002776	0	None	No	0.01	Param.
Cadmium (mg/L)	B-93	0.0009316	0.0006384	0.005	No	4	0.000785	0.00006455	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001207	0.0008102	0.005	No	14	0.001009	0.0002801	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00016	0.005	No	14	0.0004221	0.0001549	78.57	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003426	0.0002257	0.005	No	16	0.0003944	0.0001917	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	14	0.0004486	0.0001328	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00012	0.005	No	15	0.0004287	0.0002377	73.33	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.00033	0.00023	0.005	No	15	0.0002987	0.00009062	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.0005	0.00034	0.005	No	15	0.0004207	0.0001665	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.0002846	0.0001314	0.005	No	15	0.0003667	0.0002335	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-20	0.002238	0.001722	0.005	No	15	0.00198	0.0003802	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.0007418	0.0004675	0.005	No	15	0.0006047	0.0002024	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0007017	0.0004543	0.005	No	15	0.000578	0.0001826	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0003	0.00019	0.005	No	15	0.0002967	0.0002115	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.0008282	0.0006103	0.005	No	14	0.0007193	0.0001538	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.001109	0.0004679	0.005	No	15	0.0008233	0.0005572	13.33	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.002181	0.001246	0.005	No	15	0.001713	0.0006896	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.0042	0.0025	0.005	No	15	0.003527	0.001682	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-5	0.0008175	0.0004382	0.005	No	14	0.0006279	0.0002677	14.29	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002516	0.00197	0.005	No	14	0.002243	0.0003857	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006732	0.0005032	0.005	No	15	0.0005927	0.0001373	13.33	None	x^(1/3)	0.01	Param.
Chromium (mg/L)	B-100	0.001223	0.0003828	0.1	No	4	0.002877	0.002456	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	B-104D	0.005	0.0011	0.1	No	4	0.004025	0.00195	75	Kaplan-Meier	No	0.0625	NP (NDs)
Chromium (mg/L)	B-56	0.001914	0.00007551	0.1	No	4	0.002997	0.002336	50	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	B-62	0.005	0.00098	0.1	No	7	0.004426	0.001519	85.71	Kaplan-Meier	No	0.008	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.00064	0.1	No	4	0.00391	0.00218	75	Kaplan-Meier	No	0.0625	NP (NDs)
Chromium (mg/L)	B-77	0.001858	0.0005328	0.1	No	6	0.00241	0.002072	33.33	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	B-82	0.005	0.0011	0.1	No	5	0.00422	0.001744	80	Kaplan-Meier	No	0.031	NP (NDs)
Chromium (mg/L)	B-83	0.0051	0.0017	0.1	No	5	0.00394	0.001524	0	None	No	0.031	NP (selected)
Chromium (mg/L)	B-88	0.002116	0.0005176	0.1	No	4	0.002237	0.001875	25	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	B-93	0.005	0.00057	0.1	No	4	0.002807	0.002532	50	None	No	0.0625	NP (normality)
Chromium (mg/L)	DGWC-10	0.005	0.00078	0.1	No	14	0.002321	0.002074	35.71	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.0006	0.1	No	14	0.003742	0.002064	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No	16	0.004496	0.001378	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.005	0.00074	0.1	No	14	0.003778	0.002006	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.00058	0.1	No	15	0.004423	0.002397	73.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0035	0.0024	0.1	No	15	0.003047	0.0008651	13.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.005	0.0023	0.1	No	15	0.00342	0.002022	20	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.0005	0.1	No	15	0.003211	0.002268	60	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.002136	0.001443	0.1	No	15	0.003467	0.002385	40	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	DGWC-21	0.005	0.0005	0.1	No	15	0.00333	0.002148	60	Kaplan-Meier	No	0.01	NP (NDs)

# State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	15	0.004747	0.0009812	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0005	0.1	No	15	0.002187	0.002075	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	14	0.004679	0.001203	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.0005	0.1	No	15	0.003082	0.002157	53.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	15	0.004713	0.00111	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	15	0.004407	0.001567	86.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	14	0.004675	0.001216	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.005	0.00086	0.1	No	14	0.003391	0.002002	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.0057	0.00059	0.1	No	15	0.003593	0.002173	60	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.087	0.029	0.032	No	6	0.058	0.02804	0	None	No	0.0155	NP (selected)
Cobalt (mg/L)	B-102D	0.01585	0.01215	0.032	No	4	0.014	0.0008165	0	None	No	0.01	Param.
Cobalt (mg/L)	B-104D	0.2361	-0.01451	0.032	No	4	0.1625	0.04272	0	None	x^2	0.01	Param.
Cobalt (mg/L)	B-111D	0.0009228	0.0004439	0.032	No	4	0.00112	0.0009256	25	Kaplan-Meier	x^(1/3)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>B-56</b>	<b>0.05421</b>	<b>0.03629</b>	<b>0.032</b>	<b>Yes</b>	<b>4</b>	<b>0.04525</b>	<b>0.003948</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-62	0.0025	0.0003	0.032	No	7	0.001873	0.001071	71.43	None	No	0.008	NP (NDs)
<b>Cobalt (mg/L)</b>	<b>B-63</b>	<b>0.0547</b>	<b>0.0353</b>	<b>0.032</b>	<b>Yes</b>	<b>5</b>	<b>0.045</b>	<b>0.005788</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-66	0.01241	0.003754	0.032	No	5	0.00758	0.003665	20	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-77	0.0031	0.0004	0.032	No	6	0.001817	0.0009725	16.67	None	No	0.0155	NP (selected)
Cobalt (mg/L)	B-82	0.007804	0.0003291	0.032	No	6	0.004067	0.002721	0	None	No	0.01	Param.
Cobalt (mg/L)	B-83	0.021	0.0073	0.032	No	5	0.01344	0.005791	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-88	0.022	0.0015	0.032	No	5	0.00928	0.009906	0	None	No	0.031	NP (selected)
<b>Cobalt (mg/L)</b>	<b>B-93</b>	<b>0.069</b>	<b>0.0594</b>	<b>0.032</b>	<b>Yes</b>	<b>5</b>	<b>0.0642</b>	<b>0.002864</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-10</b>	<b>0.1888</b>	<b>0.1413</b>	<b>0.032</b>	<b>Yes</b>	<b>14</b>	<b>0.1537</b>	<b>0.04866</b>	<b>0</b>	<b>None</b>	<b>x^4</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-11	0.0025	0.0006	0.032	No	14	0.001481	0.0009221	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.013	0.0021	0.032	No	16	0.008125	0.009711	12.5	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-13	0.0025	0.0005	0.032	No	14	0.002056	0.0008832	78.57	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0028	0.0016	0.032	No	15	0.003653	0.005947	6.667	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02716	0.02022	0.032	No	15	0.02313	0.00641	6.667	None	x^2	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-19</b>	<b>0.05331</b>	<b>0.04925</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.05128</b>	<b>0.002996</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-2	0.0284	0.0062	0.032	No	15	0.01761	0.01155	0	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>DGWC-20</b>	<b>0.6394</b>	<b>0.4659</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.5575</b>	<b>0.1355</b>	<b>0</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-21	0.009773	0.008552	0.032	No	15	0.00862	0.002141	13.33	None	x^6	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009945	0.007492	0.032	No	15	0.008533	0.002244	13.33	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.005	0.00039	0.032	No	15	0.00183	0.001357	60	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-4	0.0021	0.0015	0.032	No	14	0.002021	0.000904	14.29	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.04451	0.01723	0.032	No	15	0.03087	0.02013	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-47</b>	<b>0.3858</b>	<b>0.253</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.3194</b>	<b>0.09792</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-48</b>	<b>0.5073</b>	<b>0.402</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.4547</b>	<b>0.07771</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-5	0.04	0.02	0.032	No	14	0.02794	0.01109	0	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>DGWC-8</b>	<b>0.0878</b>	<b>0.04412</b>	<b>0.032</b>	<b>Yes</b>	<b>14</b>	<b>0.06596</b>	<b>0.03083</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-9</b>	<b>0.201</b>	<b>0.1437</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.1724</b>	<b>0.04231</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Combined Radium 226 + 228 (pCi/L)	B-100	1.4	0.168	5.61	No	4	0.7853	0.5031	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-102D	1.74	0.635	5.61	No	4	1.096	0.4956	0	None	No	0.0625	NP (selected)
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>B-104D</b>	<b>21.26</b>	<b>6.892</b>	<b>5.61</b>	<b>Yes</b>	<b>4</b>	<b>14.08</b>	<b>3.164</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Combined Radium 226 + 228 (pCi/L)	B-111D	16.31	1.377	5.61	No	4	8.843	3.288	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-56	1.617	0.5846	5.61	No	4	1.101	0.2275	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	2.02	1.173	5.61	No	6	1.597	0.3082	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-77	2.17	0.617	5.61	No	5	1.516	0.7658	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-82	1.18	0.3541	5.61	No	4	0.7673	0.182	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-83	1.15	0.0359	5.61	No	5	0.674	0.4409	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-88	2.84	0.771	5.61	No	4	1.752	1.056	0	None	No	0.0625	NP (selected)

# State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	B-93	2.371	0.3074	5.61	No 4	1.339	0.4544	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.497	1.071	5.61	No 15	1.284	0.314	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.272	0.6667	5.61	No 15	0.9694	0.4467	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.27	0.4013	5.61	No 15	0.8984	0.714	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.484	1.036	5.61	No 15	1.26	0.3303	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.103	0.6919	5.61	No 15	0.8972	0.303	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.553	0.551	5.61	No 15	1.118	0.8748	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	1.05	0.5723	5.61	No 15	0.8113	0.3526	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	1.04	0.5062	5.61	No 15	0.7733	0.3942	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.444	0.8924	5.61	No 15	1.168	0.4067	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.543	0.8767	5.61	No 15	1.21	0.4913	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.125	0.5866	5.61	No 15	0.8557	0.3972	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.364	0.733	5.61	No 15	1.049	0.4659	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.489	0.7765	5.61	No 15	1.133	0.5259	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.721	1.187	5.61	No 15	1.454	0.3939	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.169	0.7309	5.61	No 15	0.9499	0.3231	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	2.903	1.785	5.61	No 15	2.344	0.8249	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.415	1.602	5.61	No 15	2.03	0.6435	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.839	1.024	5.61	No 15	1.431	0.6015	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.841	0.4794	5.61	No 15	0.6602	0.2668	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.439	0.9531	5.61	No 15	1.196	0.3583	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-102D	0.11	0.077	4	No 4	0.08725	0.01537	0	None	No	0.0625	NP (normality)
Fluoride, total (mg/L)	B-104D	0.5774	0.2326	4	No 4	0.405	0.07594	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-111D	0.7199	0.1451	4	No 4	0.4325	0.1266	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-56	0.34	0.098	4	No 4	0.207	0.09985	0	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-62	0.3546	0.06003	4	No 6	0.1855	0.1295	0	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	B-77	0.1	0.078	4	No 5	0.0948	0.00955	60	None	No	0.031	NP (NDs)
Fluoride, total (mg/L)	B-82	0.2	0.052	4	No 4	0.113	0.06226	50	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-83	0.1232	0.02857	4	No 5	0.0834	0.0317	20	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	B-93	0.3685	0.2815	4	No 4	0.325	0.01915	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-10	1.862	1.347	4	No 16	1.604	0.3955	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-11	0.1	0.052	4	No 15	0.0804	0.0261	60	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-12	0.1641	0.05529	4	No 16	0.1588	0.1448	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-13	0.2134	0.08589	4	No 15	0.157	0.1093	6.667	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-14	0.1	0.052	4	No 16	0.08588	0.02643	68.75	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-15	0.11	0.079	4	No 16	0.1054	0.04361	62.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-17	0.2722	0.09774	4	No 16	0.2039	0.1552	12.5	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-19	0.5135	0.1749	4	No 16	0.3713	0.313	6.25	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-2	0.28	0.052	4	No 16	0.1429	0.1586	37.5	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-20	0.9494	0.4006	4	No 16	0.675	0.4218	6.25	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-21	0.14	0.07	4	No 16	0.107	0.06664	62.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-22	0.13	0.09	4	No 16	0.1185	0.06532	50	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-23	0.2262	0.09243	4	No 16	0.1852	0.1558	6.25	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-4	0.17	0.082	4	No 16	0.1364	0.1776	68.75	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-42	0.1	0.06	4	No 16	0.0925	0.02176	87.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-47	1.146	0.5167	4	No 16	0.8313	0.4835	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-48	1.19	0.6114	4	No 16	0.9006	0.4445	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-5	0.7808	0.2378	4	No 15	0.5667	0.4567	6.667	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-8	0.4095	0.1193	4	No 15	0.2868	0.2338	13.33	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-9	1.391	0.9657	4	No 16	1.178	0.3265	0	None	No	0.01	Param.
Lead (mg/L)	B-100	0.0003036	0.00005528	0.001	No 4	0.0003695	0.0004235	25	Kaplan-Meier	sqrt(x)	0.01	Param.

# State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	B-102D	0.001	0.000037	0.001	No	4	0.0002865	0.0004758	25	None	No	0.0625	NP (normality)
Lead (mg/L)	B-104D	0.001	0.000051	0.001	No	4	0.0007628	0.0004745	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000051	0.001	No	4	0.0005273	0.0005459	50	None	No	0.0625	NP (normality)
Lead (mg/L)	B-56	0.0002854	0.00003627	0.001	No	4	0.0003528	0.0004355	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	B-63	0.001	0.000047	0.001	No	4	0.00053	0.0005428	50	None	No	0.0625	NP (normality)
Lead (mg/L)	B-77	0.0016	0.00021	0.001	No	6	0.0007367	0.000554	33.33	None	No	0.0155	NP (selected)
Lead (mg/L)	B-82	0.0001911	0.00004858	0.001	No	5	0.0004658	0.000489	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	B-83	0.001	0.000065	0.001	No	5	0.000455	0.0004634	20	None	No	0.031	NP (selected)
Lead (mg/L)	B-88	0.02767	0.00004865	0.001	No	4	0.00354	0.005647	25	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	B-93	0.001	0.00012	0.001	No	4	0.00056	0.0005081	50	None	No	0.0625	NP (normality)
Lead (mg/L)	DGWC-10	0.001	0.00011	0.001	No	14	0.0006273	0.0004481	57.14	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.0001	0.001	No	14	0.0006785	0.0004481	64.29	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.001	0.00011	0.001	No	16	0.0008881	0.0003057	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.001	No	14	0.0008784	0.0003097	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.001	No	15	0.0008149	0.0003834	80	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.0012	0.0001	0.001	No	15	0.0007161	0.0004487	60	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.00009	0.001	No	15	0.0005862	0.0004585	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00007	0.001	No	15	0.0007059	0.0004334	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.000086	0.001	No	15	0.0005156	0.0004693	46.67	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-20	0.001	0.00015	0.001	No	15	0.0007311	0.0003691	60	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.00014	0.001	No	15	0.0006177	0.0004296	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.001	No	15	0.0009377	0.0002412	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.00012	0.001	No	14	0.0007478	0.0004149	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0004678	0.0001549	0.001	No	15	0.0008147	0.001228	20	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.0011	0.00053	0.001	No	15	0.001081	0.001106	26.67	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.0022	0.00095	0.001	No	15	0.001664	0.001169	13.33	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.001	0.000051	0.001	No	14	0.0005984	0.0006777	35.71	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.001	0.00011	0.001	No	14	0.0006273	0.0004132	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-9	0.001	0.00028	0.001	No	15	0.00084	0.0003323	80	None	No	0.01	NP (NDs)
Lithium (mg/L)	B-100	0.003519	0.0007815	0.03	No	4	0.00215	0.0006028	0	None	No	0.01	Param.
Lithium (mg/L)	B-102D	0.01666	0.009844	0.03	No	4	0.01325	0.0015	0	None	No	0.01	Param.
<b>Lithium (mg/L)</b>	<b>B-104D</b>	<b>0.04121</b>	<b>0.03479</b>	<b>0.03</b>	<b>Yes</b>	<b>4</b>	<b>0.038</b>	<b>0.001414</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	B-111D	0.029	0.021	0.03	No	4	0.02475	0.004349	0	None	No	0.0625	NP (selected)
Lithium (mg/L)	B-56	0.005968	0.004632	0.03	No	4	0.0053	0.0002944	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.015	0.0078	0.03	No	7	0.0094	0.002532	14.29	None	No	0.008	NP (normality)
Lithium (mg/L)	B-63	0.015	0.0062	0.03	No	5	0.00812	0.003849	20	None	No	0.031	NP (normality)
Lithium (mg/L)	B-77	0.015	0.00095	0.03	No	6	0.004525	0.005339	16.67	None	No	0.0155	NP (selected)
Lithium (mg/L)	B-82	0.0039	0.001	0.03	No	5	0.00222	0.001422	0	None	No	0.031	NP (selected)
Lithium (mg/L)	B-83	0.004551	0.0009685	0.03	No	5	0.00276	0.001069	0	None	No	0.01	Param.
Lithium (mg/L)	B-88	0.029	0.0016	0.03	No	4	0.009575	0.01311	0	None	No	0.0625	NP (selected)
Lithium (mg/L)	B-93	0.012	0.011	0.03	No	4	0.01125	0.0005	0	None	No	0.0625	NP (normality)
Lithium (mg/L)	DGWC-10	0.006793	0.002702	0.03	No	14	0.005343	0.004279	14.29	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.03	No	14	0.003186	0.003418	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.0011	0.03	No	16	0.01064	0.006685	68.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.0036	0.0029	0.03	No	14	0.004879	0.004297	14.29	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0032	0.03	No	15	0.00472	0.003078	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0066	0.0058	0.03	No	14	0.00625	0.0008465	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.00096	0.03	No	15	0.009434	0.007057	60	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0035	0.003	0.03	No	15	0.003993	0.003053	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.085	0.023	0.03	No	15	0.04906	0.03031	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.03	No	15	0.006407	0.005611	6.667	None	No	0.01	NP (normality)

# State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	DGWC-21	0.0065	0.0057	0.03	No	15	0.00656	0.00236	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0046	0.0037	0.03	No	15	0.00484	0.002836	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.01279	0.003816	0.03	No	15	0.01165	0.01832	6.667	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-4	0.0035	0.0025	0.03	No	14	0.003786	0.003256	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01268	0.01007	0.03	No	15	0.01137	0.001928	6.667	None	No	0.01	Param.
<b>Lithium (mg/L)</b>	<b>DGWC-47</b>	<b>0.07457</b>	<b>0.05787</b>	<b>0.03</b>	<b>Yes</b>	<b>15</b>	<b>0.06622</b>	<b>0.01232</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>DGWC-48</b>	<b>0.1269</b>	<b>0.106</b>	<b>0.03</b>	<b>Yes</b>	<b>15</b>	<b>0.1165</b>	<b>0.01544</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	DGWC-5	0.008199	0.004206	0.03	No	14	0.006343	0.003062	7.143	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	DGWC-8	0.0072	0.0045	0.03	No	14	0.006036	0.002823	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-9	0.02931	0.02328	0.03	No	15	0.02629	0.004445	6.667	None	No	0.01	Param.
Mercury (mg/L)	B-104D	0.0002	0.000079	0.002	No	4	0.0001697	0.0000605	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.000094	0.002	No	4	0.0001735	0.000053	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-56	0.0002	0.00016	0.002	No	4	0.00019	0.00002	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No	5	0.000182	0.00004025	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.0001	0.002	No	4	0.0001525	0.000055	50	None	No	0.0625	NP (normality)
Mercury (mg/L)	B-93	0.00036	0.00001396	0.002	No	4	0.000187	0.00007622	0	None	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0002	0.000081	0.002	No	14	0.0001658	0.00005628	71.43	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.0002	0.00008	0.002	No	14	0.0001707	0.0000585	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00008	0.002	No	16	0.0001541	0.00006456	62.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	14	0.0001829	0.00004375	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	15	0.0001727	0.00005688	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	15	0.0001907	0.00003615	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.00006	0.002	No	15	0.0001404	0.00006361	46.67	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-19	0.0002	0.00009	0.002	No	15	0.000172	0.00005882	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	15	0.0002049	0.0001304	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	15	0.0001767	0.00004835	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00006	0.002	No	15	0.000158	0.00006327	66.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.0001	0.002	No	15	0.0001677	0.00005729	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0002053	0.0001241	0.002	No	15	0.0001853	0.0000573	26.67	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-4	0.00059	0.00013	0.002	No	14	0.0002059	0.0001192	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	15	0.0001893	0.00004131	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	15	0.0001907	0.00003615	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002402	0.0001202	0.002	No	14	0.0001924	0.0001175	14.29	None	ln(x)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.000079	0.002	No	14	0.0001494	0.00006312	57.14	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.00021	0.00013	0.002	No	15	0.0001881	0.00008736	46.67	None	No	0.01	NP (normality)
Molybdenum (mg/L)	B-104D	0.01	0.0012	0.041	No	4	0.0078	0.0044	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	B-111D	0.01817	0.002799	0.041	No	4	0.00765	0.003615	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	B-66	0.01	0.0015	0.041	No	4	0.005825	0.004822	50	None	No	0.0625	NP (normality)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.041	No	4	0.0056	0.005081	50	None	No	0.0625	NP (normality)
Molybdenum (mg/L)	DGWC-13	0.0262	0.01302	0.041	No	14	0.01961	0.009301	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.0018	0.041	No	15	0.005093	0.004167	40	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01117	0.00682	0.041	No	15	0.008993	0.003208	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.007258	0.004757	0.041	No	14	0.006007	0.001765	7.143	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.0019	0.05	No	4	0.004225	0.00155	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-104D	0.004053	0.0006472	0.05	No	4	0.003675	0.001648	50	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	B-111D	0.005	0.0022	0.05	No	4	0.0043	0.0014	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-56	0.029	0.011	0.05	No	4	0.016	0.008718	0	None	No	0.0625	NP (normality)
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No	6	0.00445	0.001347	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0016	0.05	No	5	0.00374	0.001734	60	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-83	0.02981	0.006668	0.05	No	5	0.01824	0.006906	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.004472	0.0007278	0.05	No	4	0.0026	0.0008246	0	None	No	0.01	Param.

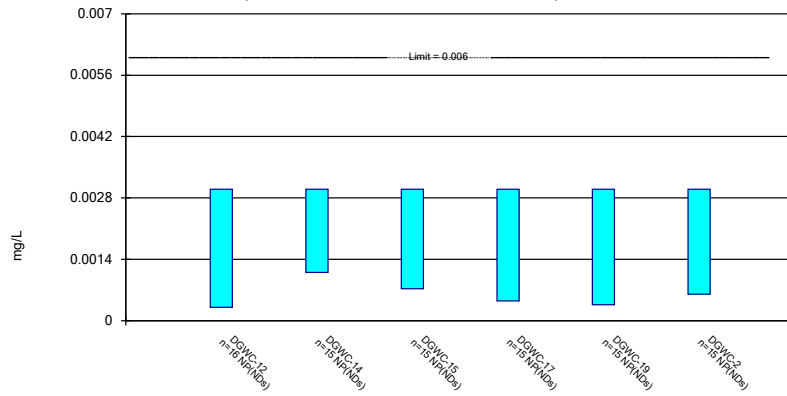
# State Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	B-93	0.036	0.0076	0.05	No	4	0.01788	0.01288	0	None	No	0.0625	NP (selected)
Selenium (mg/L)	DGWC-10	0.05289	0.02215	0.05	No	14	0.03752	0.0217	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0017	0.05	No	16	0.003931	0.002266	56.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004442	0.0019	0.05	No	14	0.004307	0.00244	21.43	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-14	0.01	0.0017	0.05	No	15	0.004227	0.002257	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	15	0.00512	0.001582	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.009189	0.006423	0.05	No	15	0.007953	0.002359	13.33	None	ln(x)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.008946	0.005774	0.05	No	15	0.00736	0.00234	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0053	0.0045	0.05	No	15	0.005193	0.001557	46.67	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06742	0.0338	0.05	No	15	0.05061	0.02481	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	15	0.00478	0.0008521	93.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	14	0.004743	0.0009621	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01301	0.005259	0.05	No	15	0.009133	0.005718	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.008046	0.003594	0.05	No	15	0.00582	0.003285	13.33	None	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.0457	0.00964	0.05	No	14	0.03263	0.04214	7.143	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.00408	0.002153	0.05	No	14	0.004586	0.002144	50	Kaplan-Meier	sqrt(x)	0.01	Param.
<b>Selenium (mg/L)</b>	<b>DGWC-9</b>	<b>0.1308</b>	<b>0.05207</b>	<b>0.05</b>	<b>Yes</b>	<b>15</b>	<b>0.09144</b>	<b>0.0581</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Thallium (mg/L)	B-56	0.0003212	0.0001238	0.002	No	4	0.0002225	0.00004349	0	None	No	0.01	Param.
Thallium (mg/L)	B-82	0.001	0.000099	0.002	No	5	0.0006418	0.0004905	60	None	No	0.031	NP (NDs)
Thallium (mg/L)	B-83	0.001	0.000072	0.002	No	5	0.0008144	0.000415	80	None	No	0.031	NP (NDs)
Thallium (mg/L)	B-88	0.001	0.0002	0.002	No	4	0.0008	0.0004	75	None	No	0.0625	NP (NDs)
Thallium (mg/L)	DGWC-10	0.0006	0.00036	0.002	No	14	0.0004907	0.0002285	14.29	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.00009	0.002	No	16	0.0006042	0.0004636	56.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00017	0.002	No	15	0.000398	0.0003761	26.67	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.00059	0.00049	0.002	No	15	0.000544	0.0001384	6.667	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.000988	0.0005219	0.002	No	15	0.000942	0.0004995	26.67	Kaplan-Meier	ln(x)	0.01	Param.
Thallium (mg/L)	DGWC-22	0.001	0.000064	0.002	No	15	0.0006889	0.0004554	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	14	0.0009338	0.0002478	92.86	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00009	0.002	No	15	0.0007559	0.000419	73.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00036	0.0002	0.002	No	15	0.0003513	0.0002684	13.33	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.00008	0.002	No	15	0.0006937	0.0004484	66.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.0002	0.002	No	14	0.00081	0.0003787	78.57	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	14	0.0003886	0.0003356	21.43	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.001	0.00043	0.002	No	15	0.0007027	0.0002443	33.33	None	No	0.01	NP (normality)

### Non-Parametric Confidence Interval

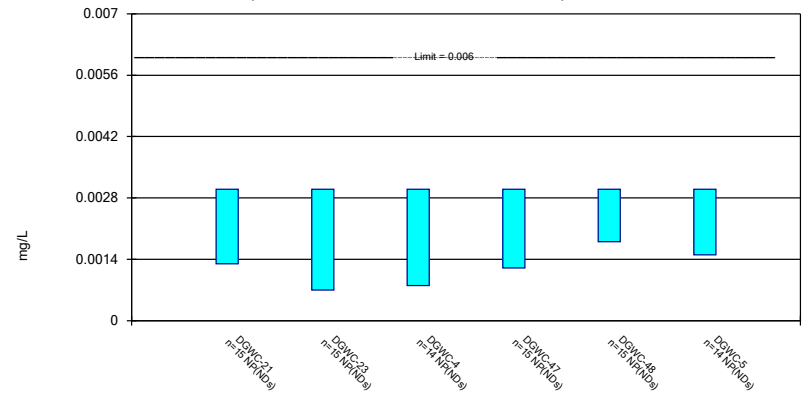
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Constituent: Antimony Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

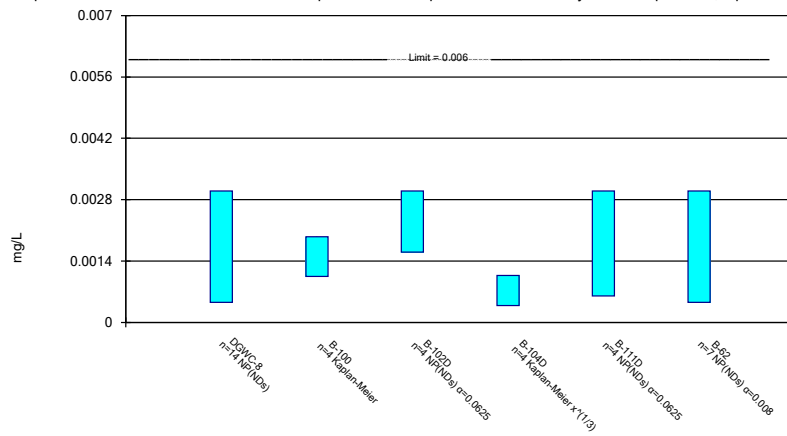
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Constituent: Antimony Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

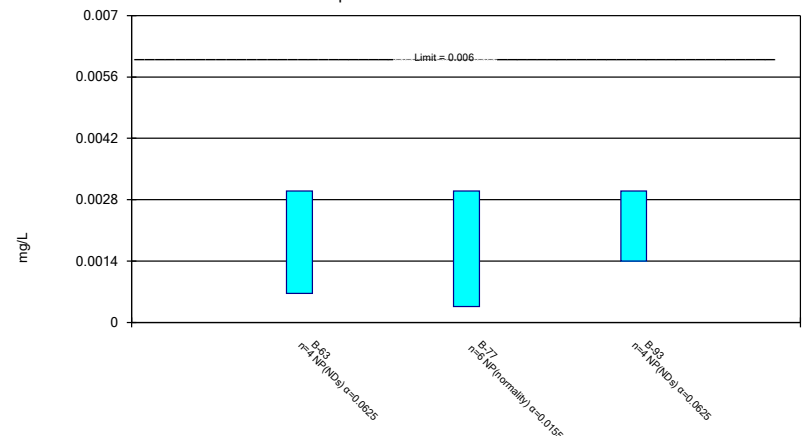
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Constituent: Antimony Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

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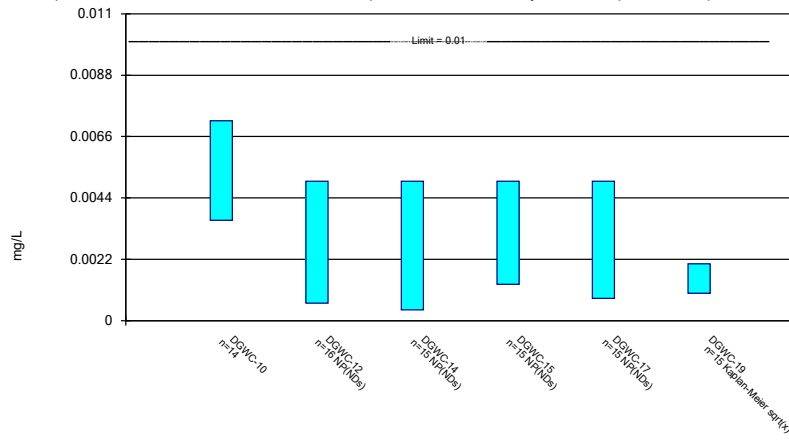


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Plant McDonough Client: Southern Company Data: McDonough AP



Parametric and Non-Parametric (NP) Confidence Interval

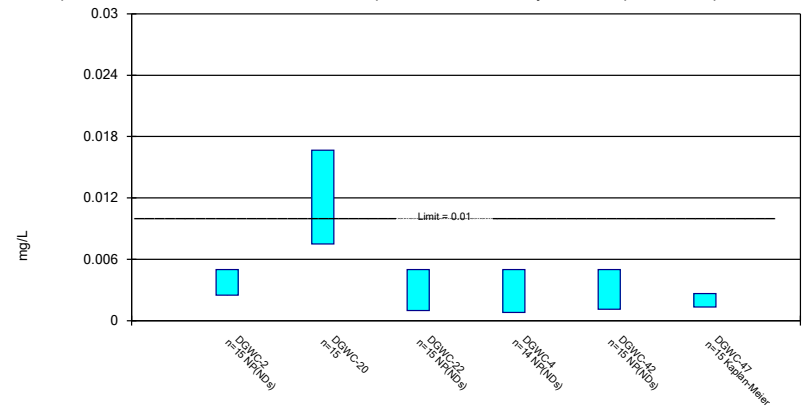
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Constituent: Arsenic Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

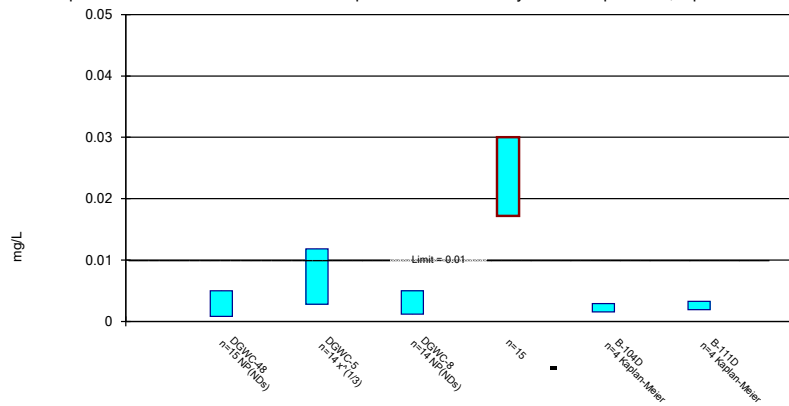
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Constituent: Arsenic Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

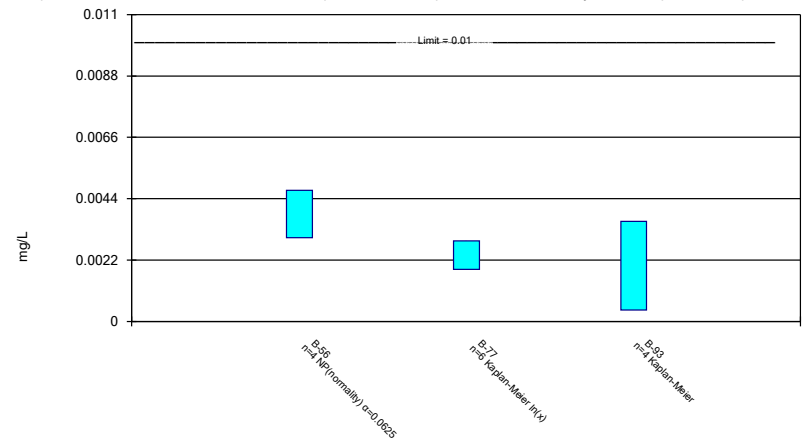
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Constituent: Arsenic Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

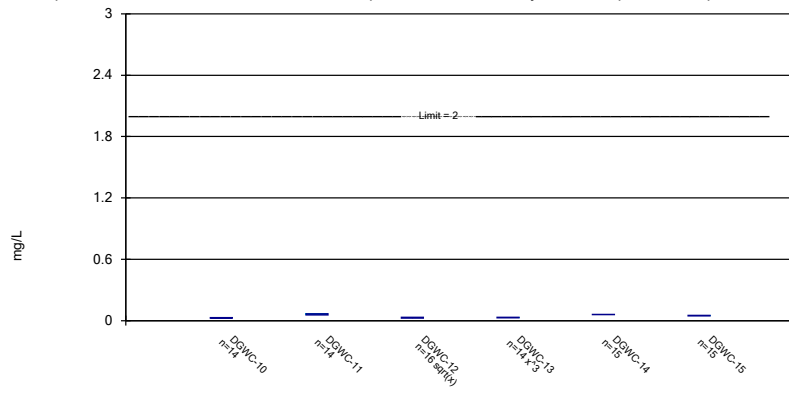
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Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

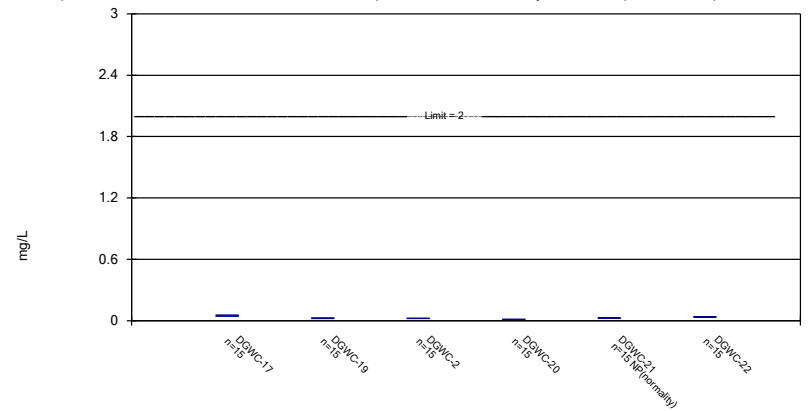
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Constituent: Barium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

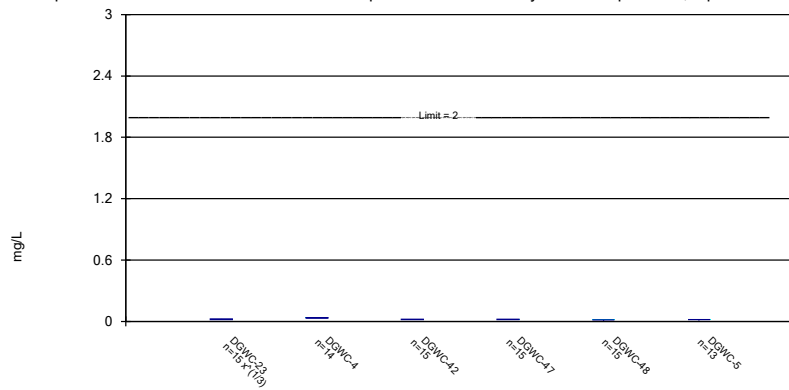
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Constituent: Barium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

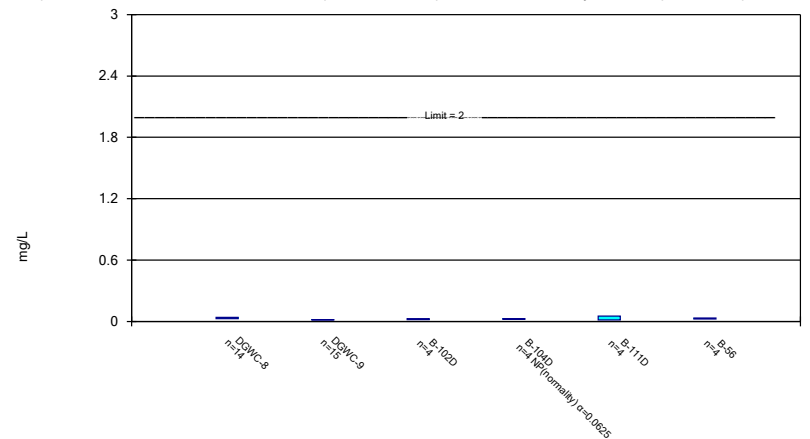
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Constituent: Barium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

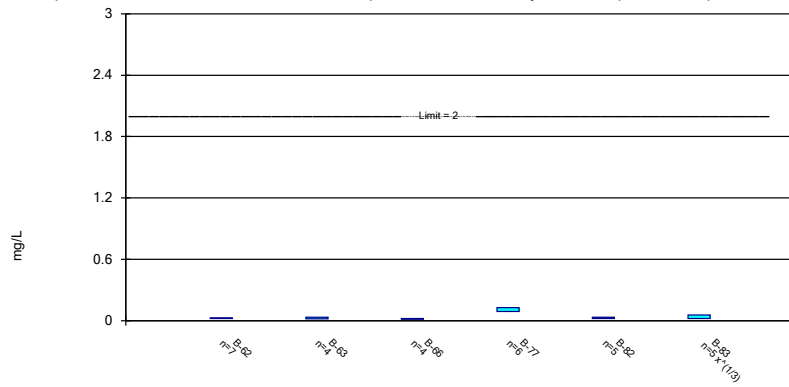
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

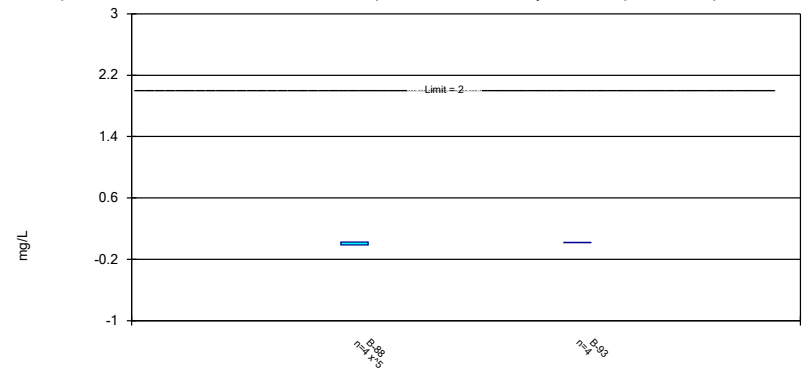
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

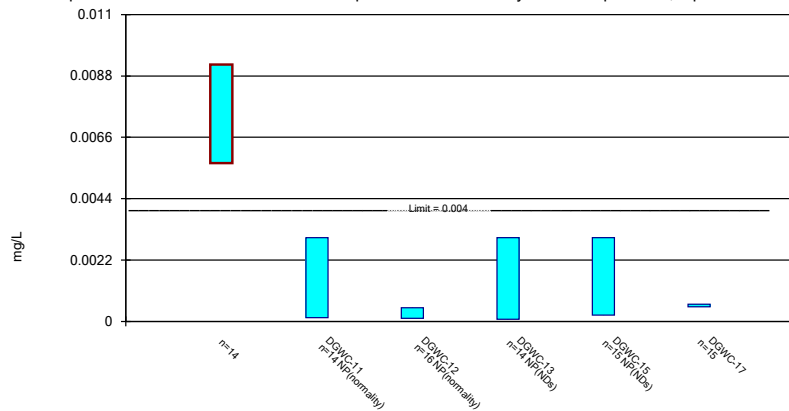
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

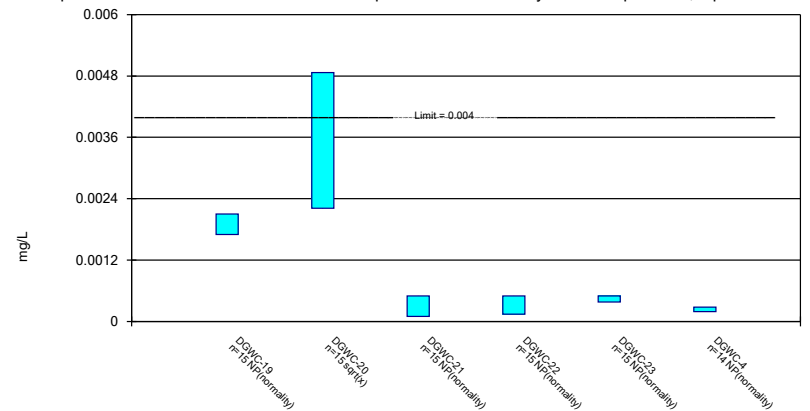
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

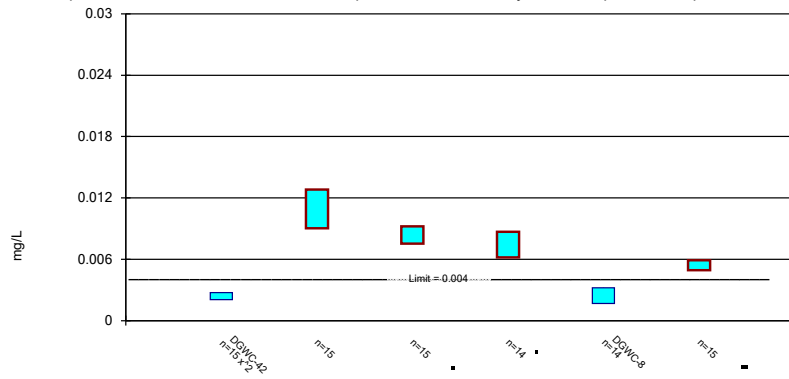
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

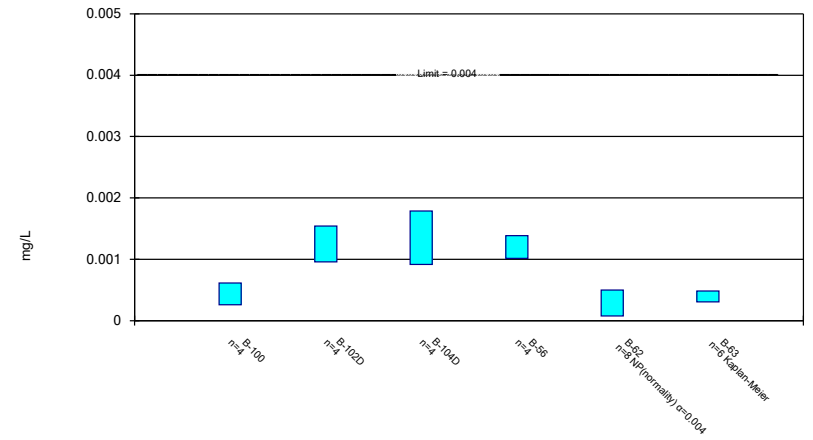
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

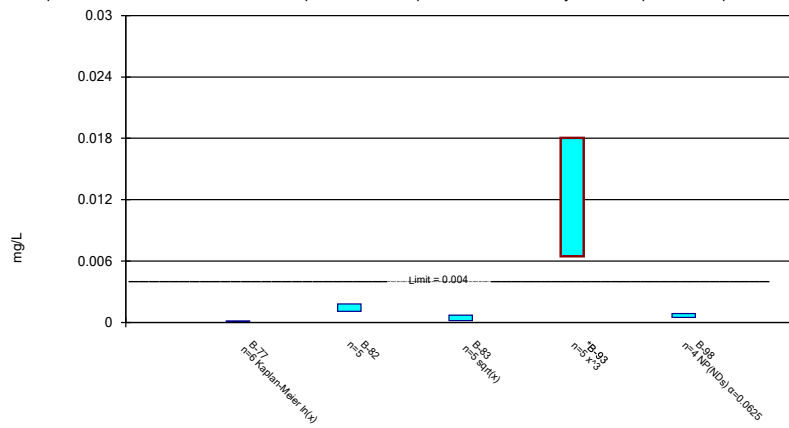
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

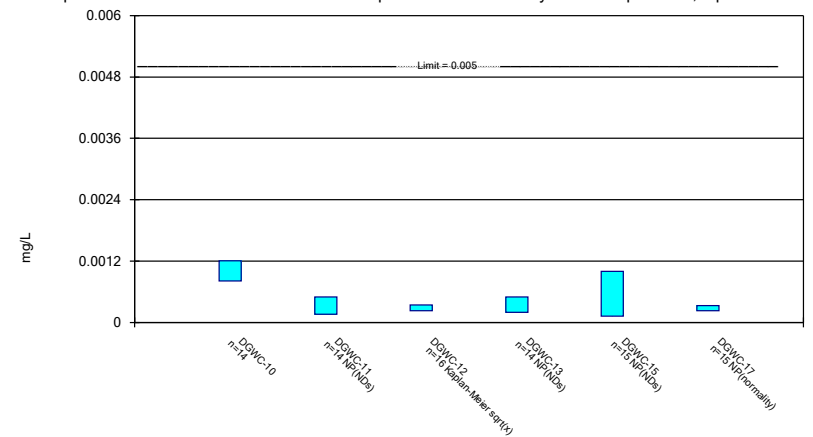
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

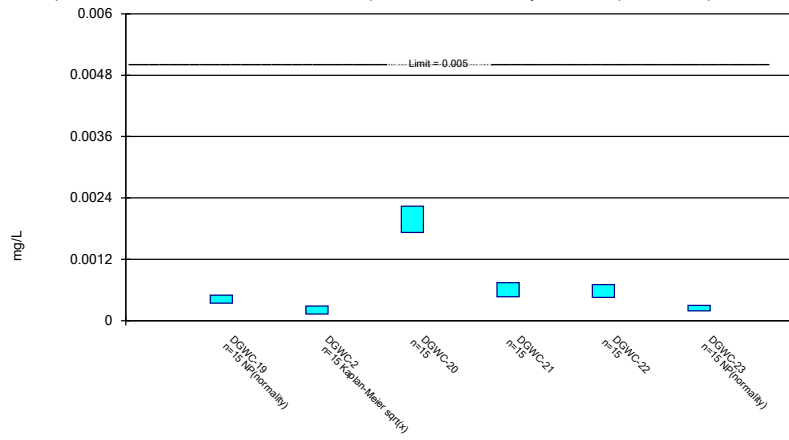
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

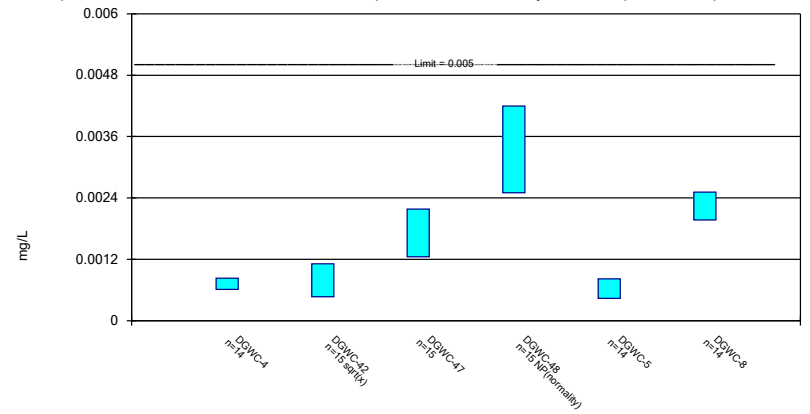
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

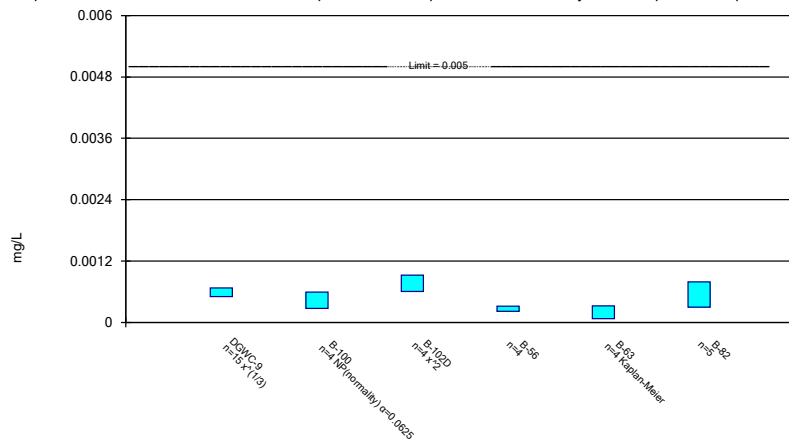
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

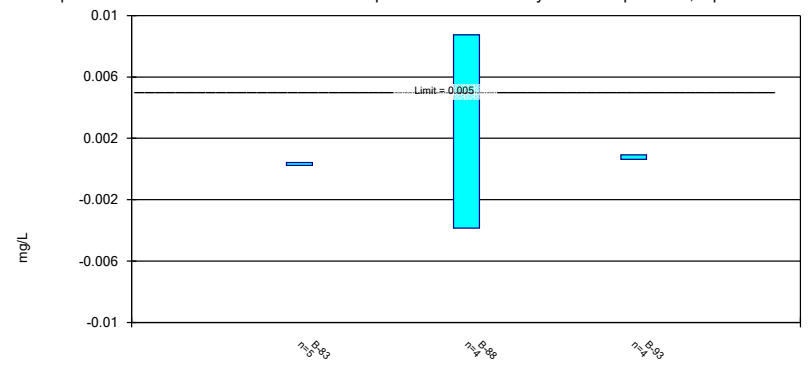
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

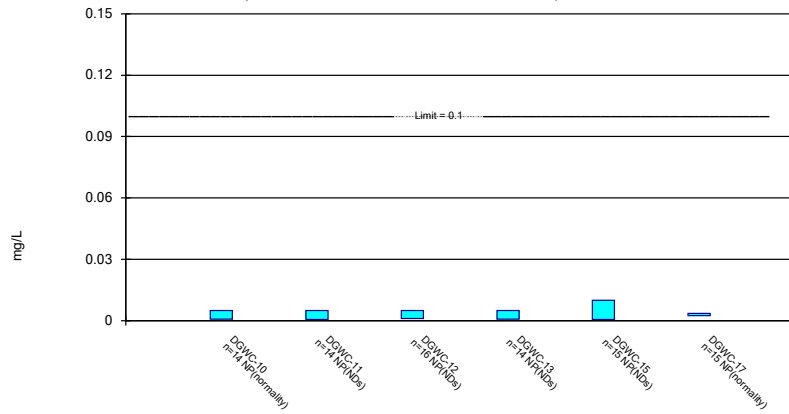
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

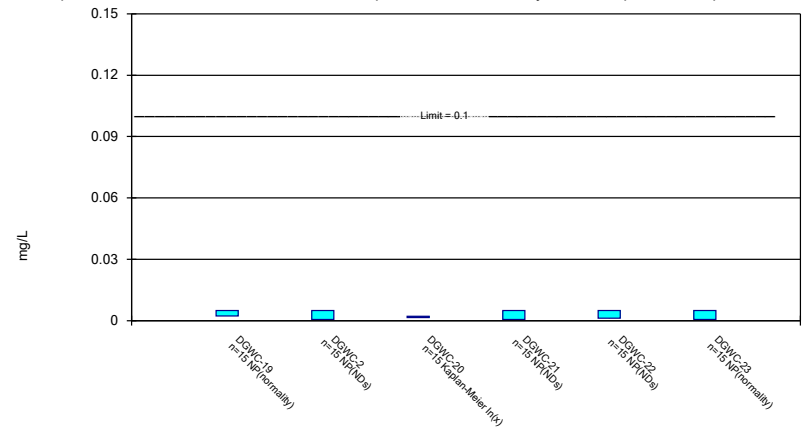
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

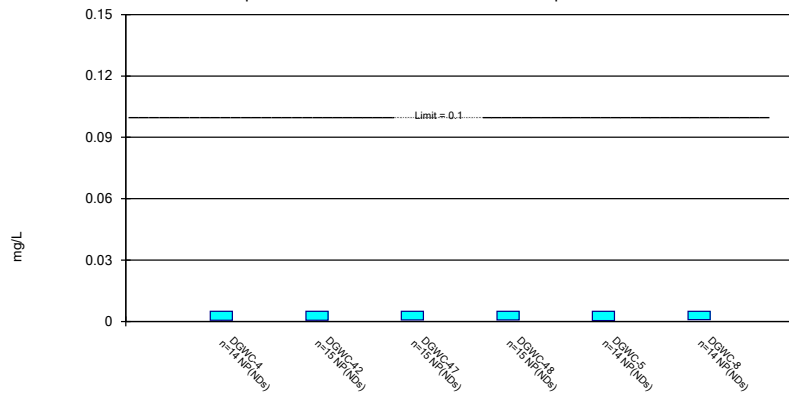
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

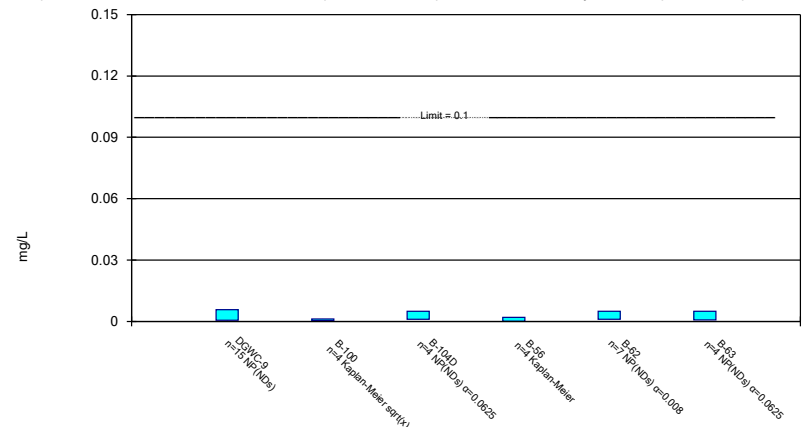
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

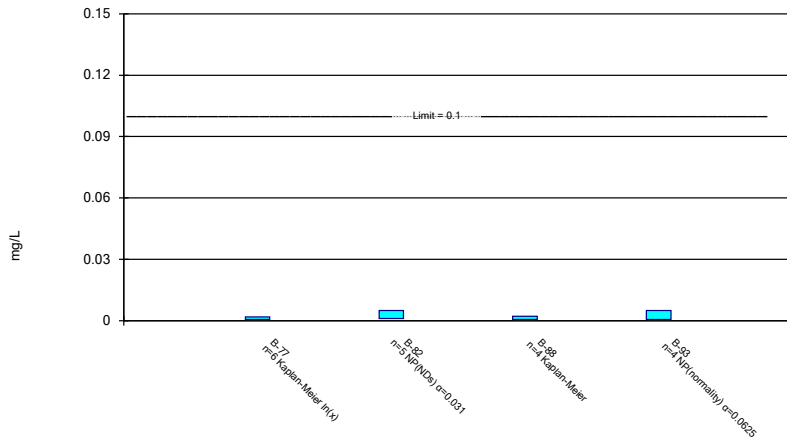
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

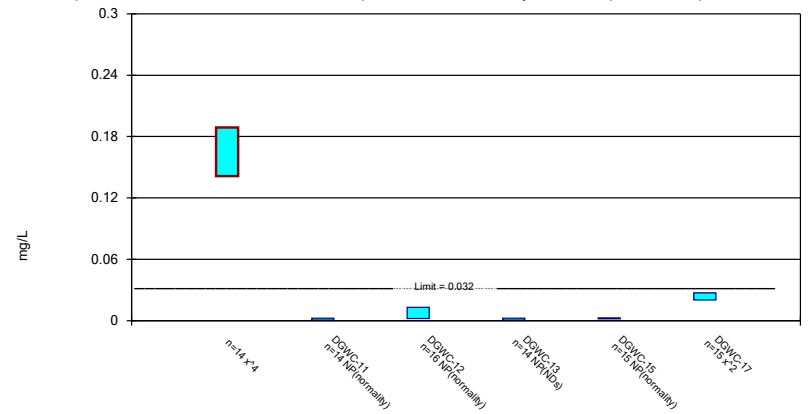
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

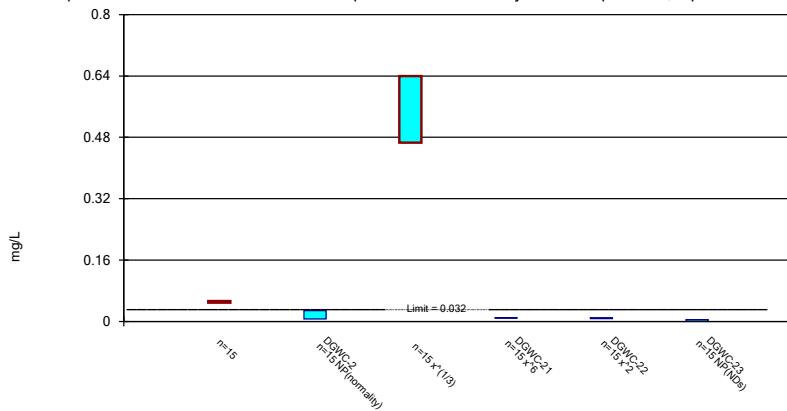
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

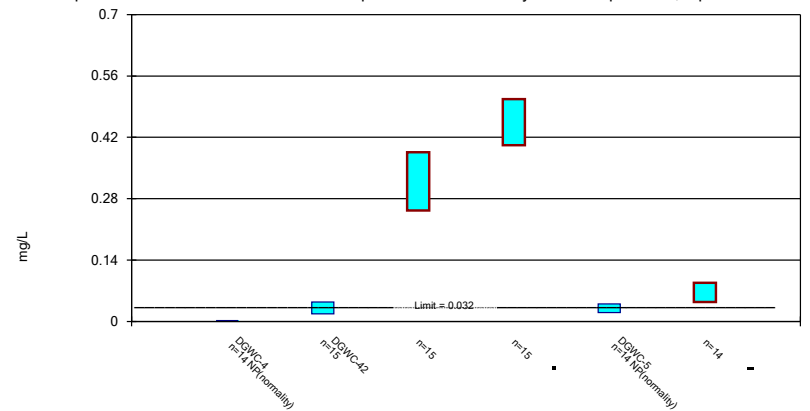
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

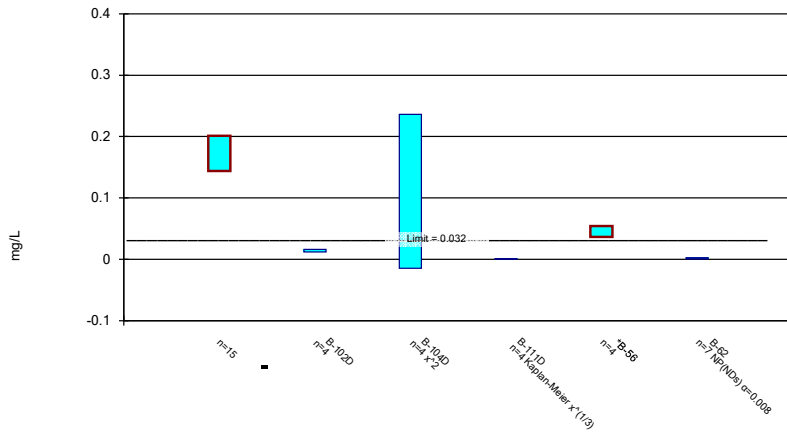
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

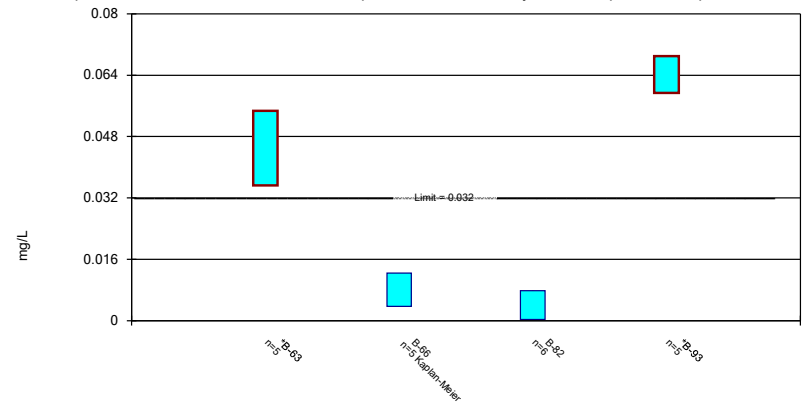
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

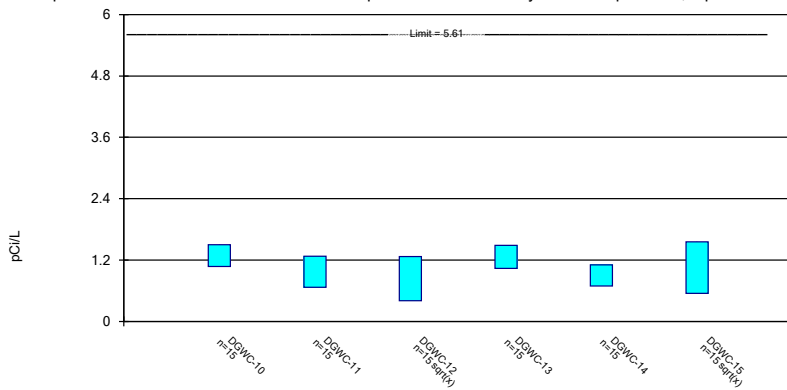
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

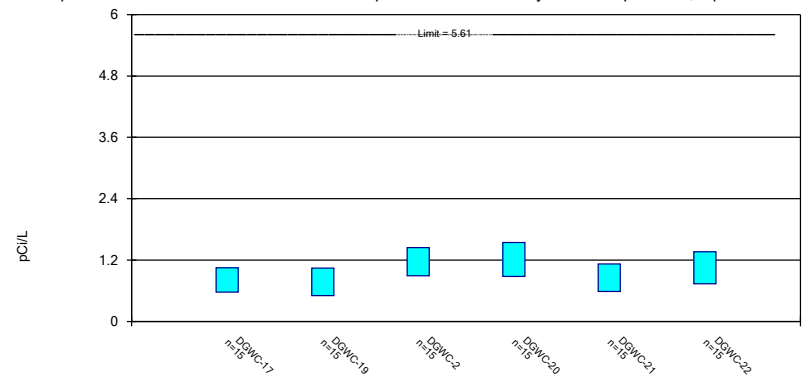
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:21 PM 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.

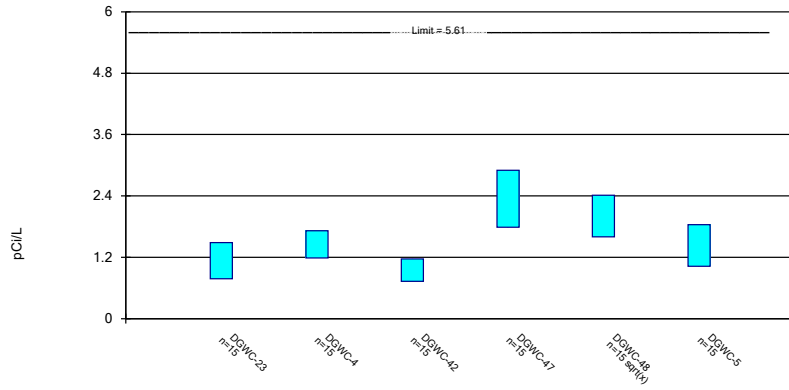


Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:21 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP



### Parametric Confidence Interval

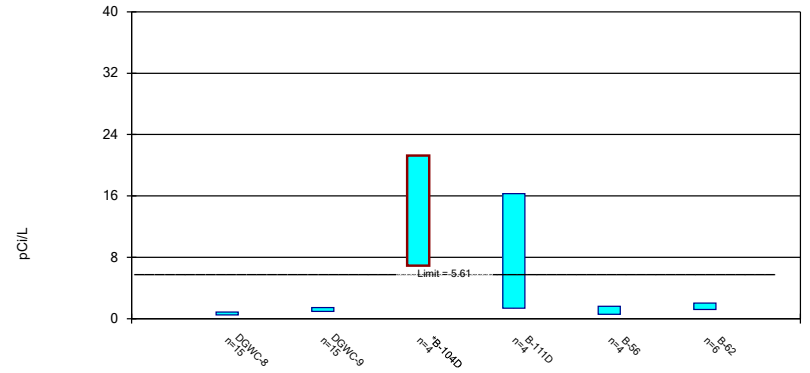
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Inte  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

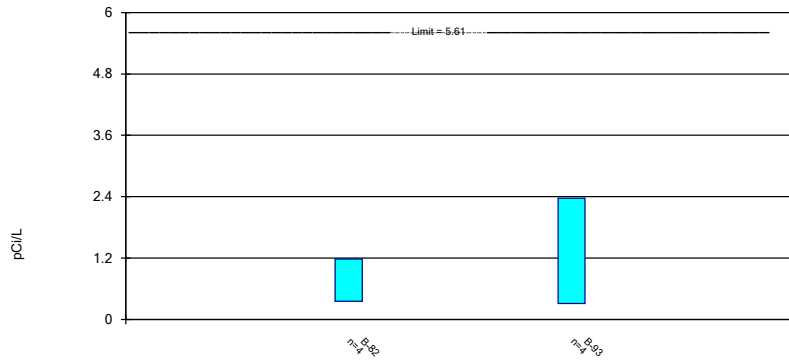
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Inte  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

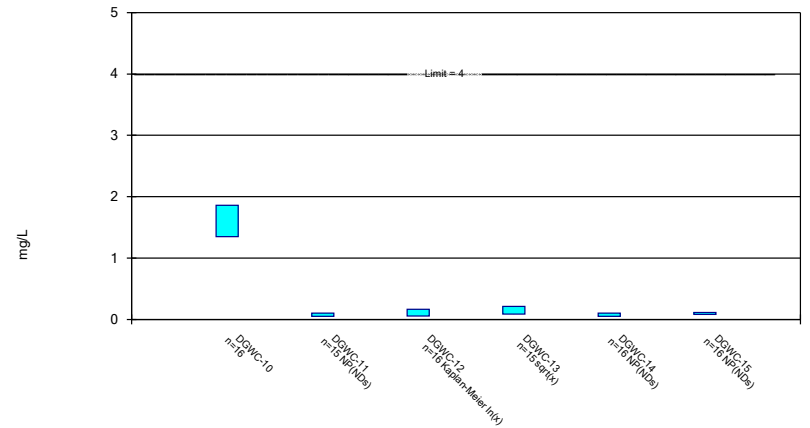
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Inte  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

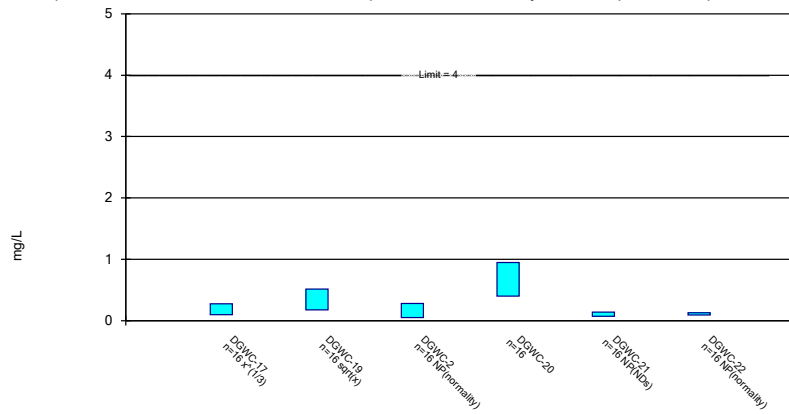
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

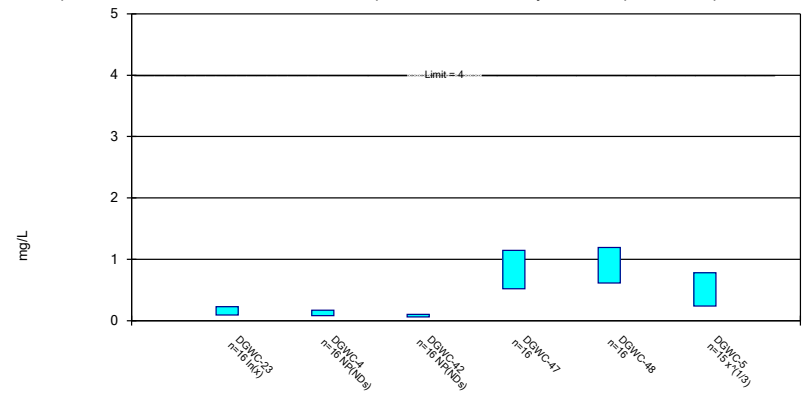
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

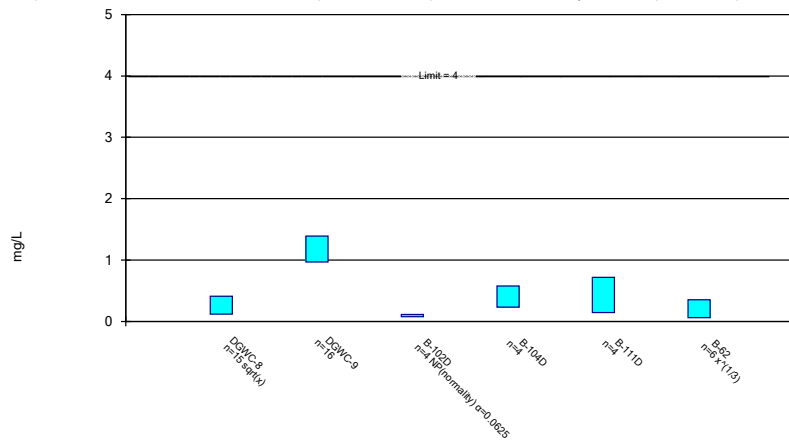
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

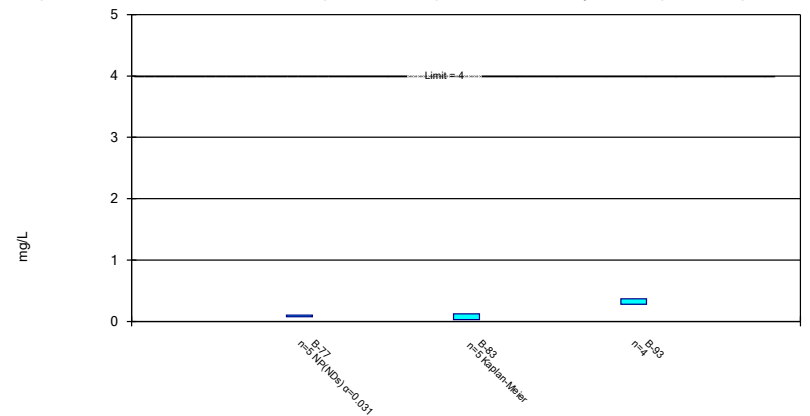
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

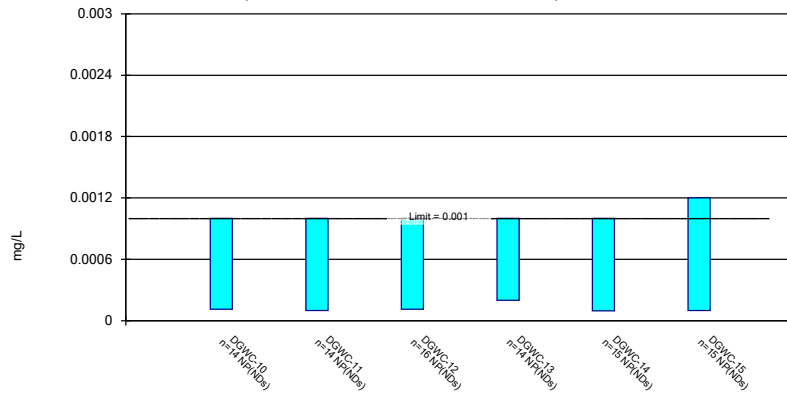
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

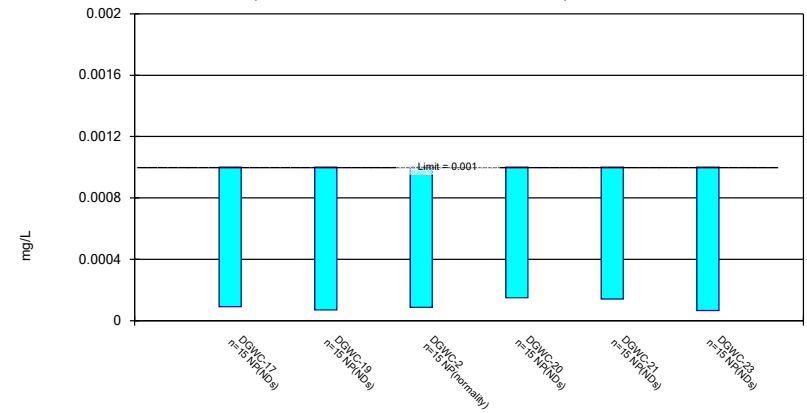
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

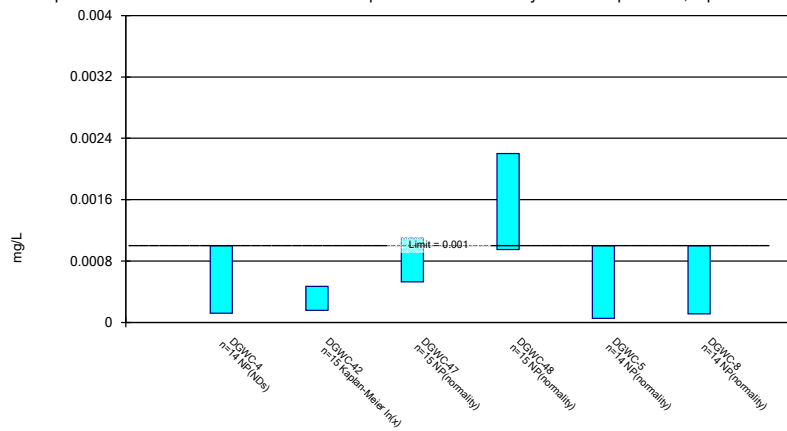
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

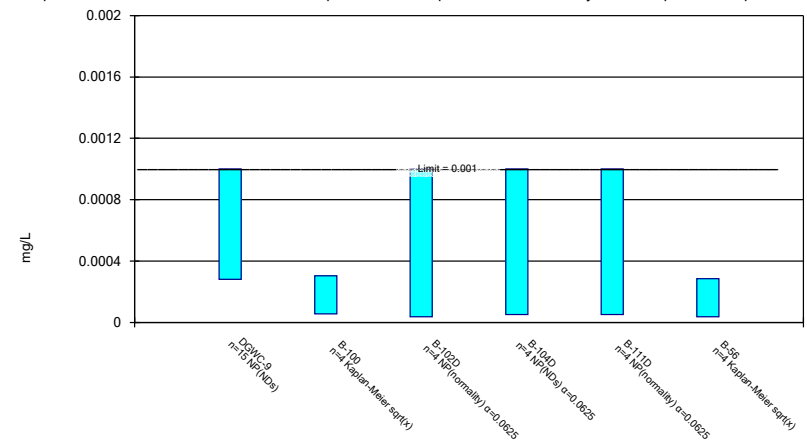
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

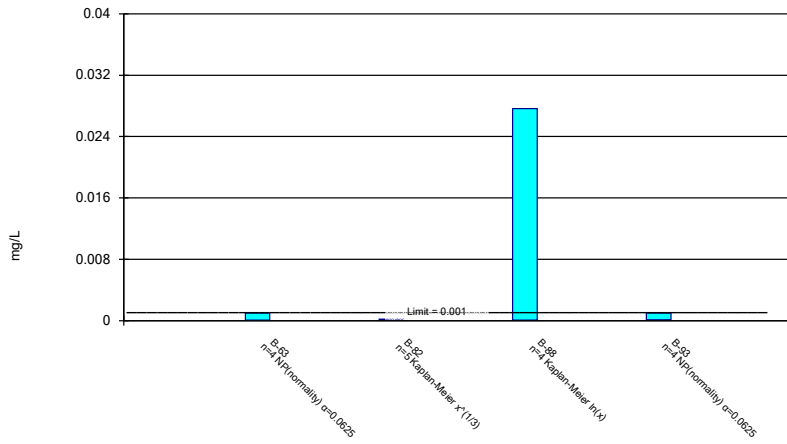
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

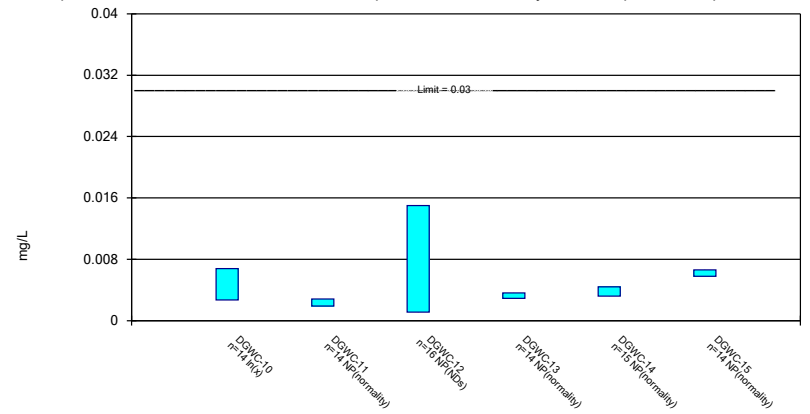
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

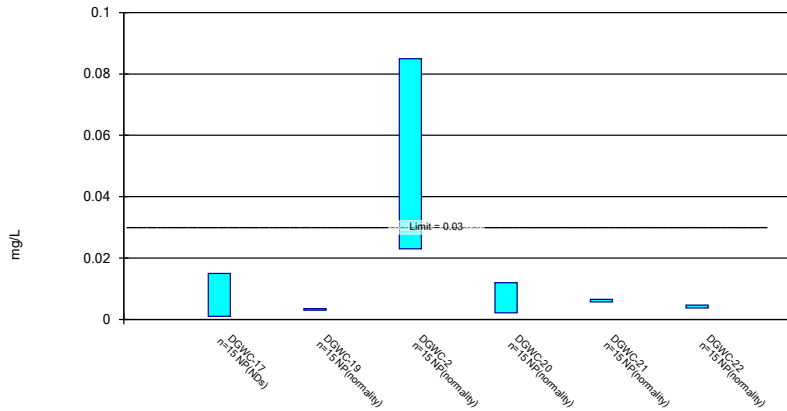
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

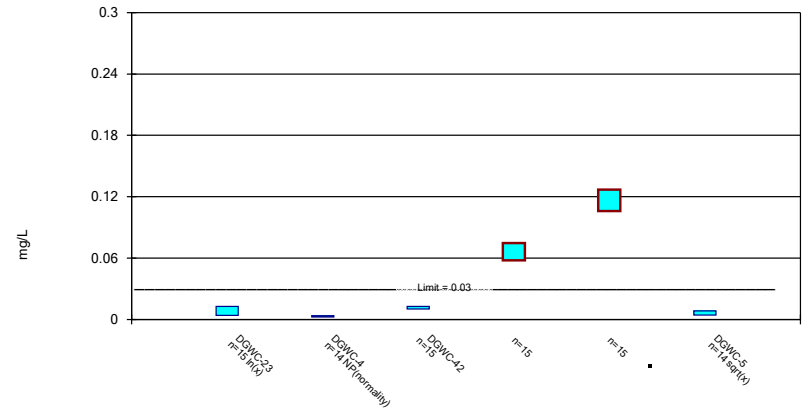
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lithium Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

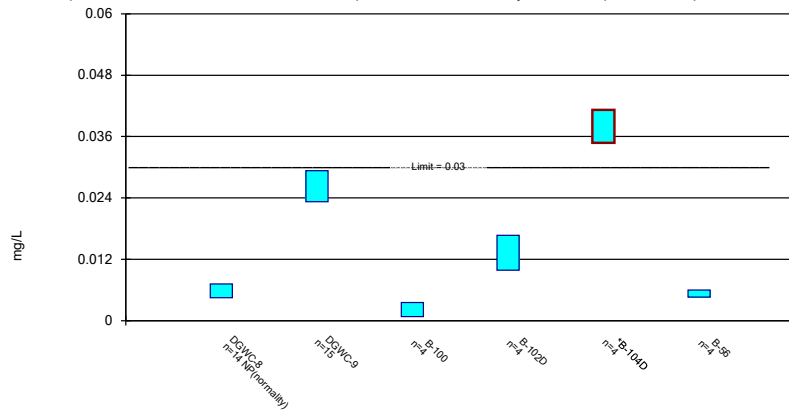
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

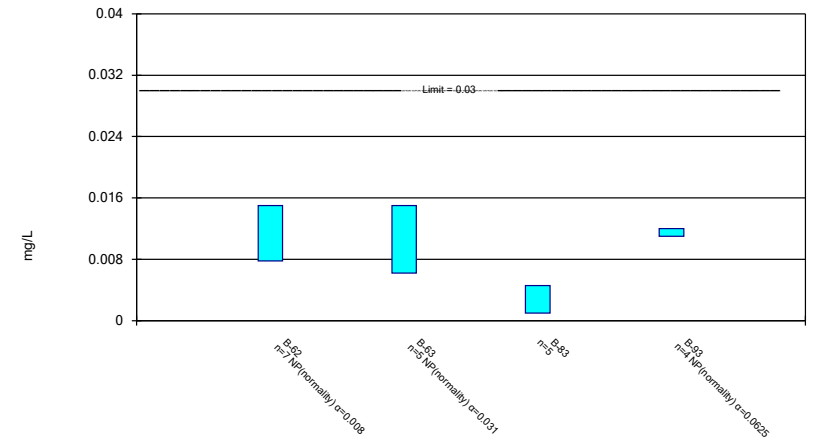
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

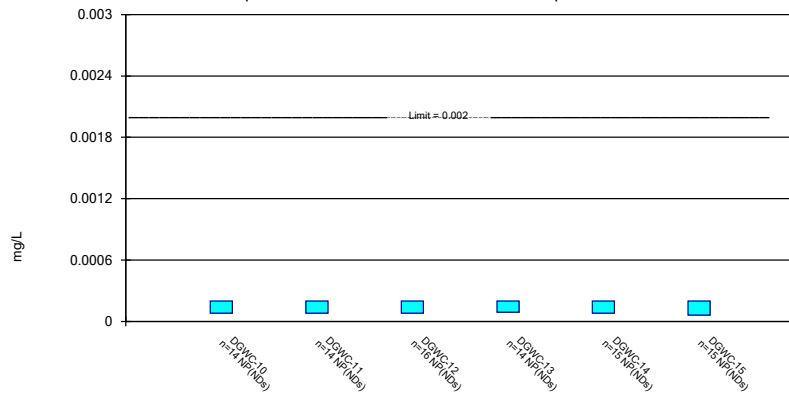
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

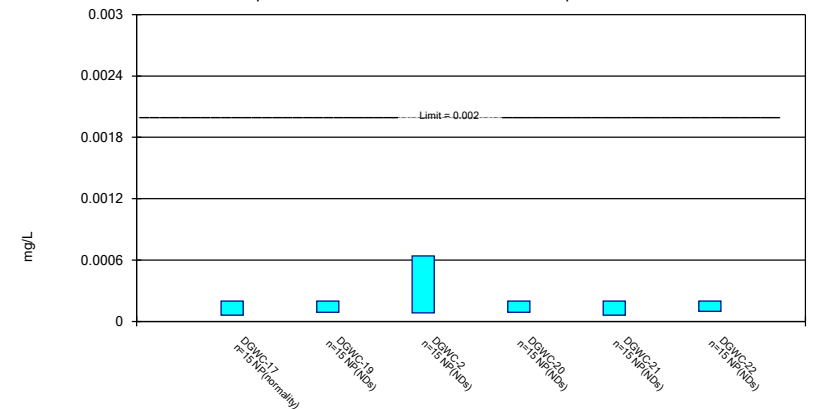
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

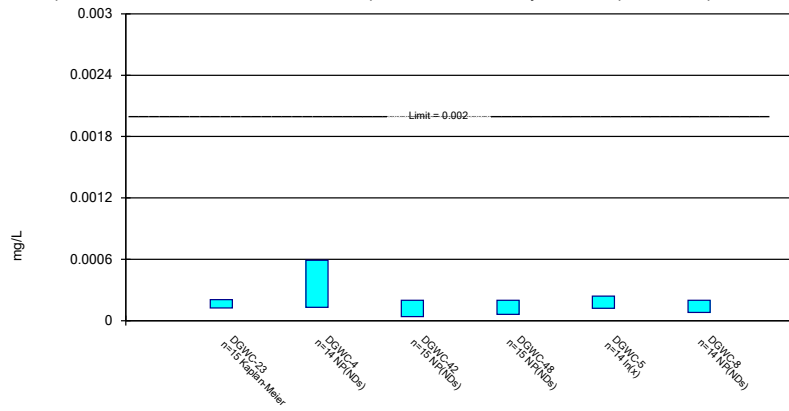
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

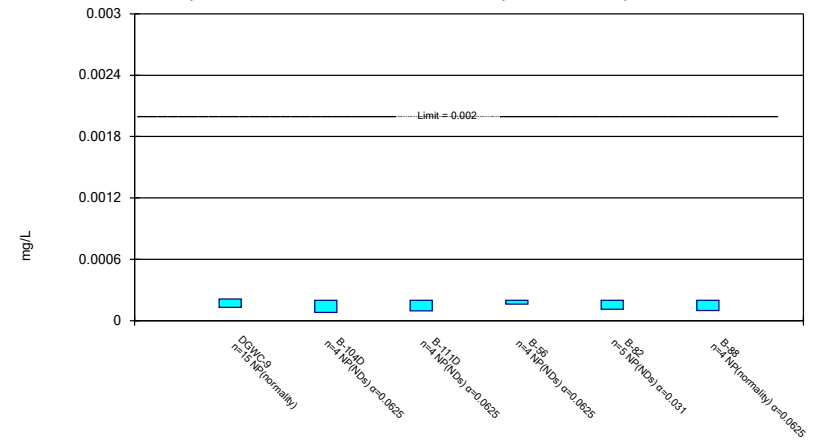
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

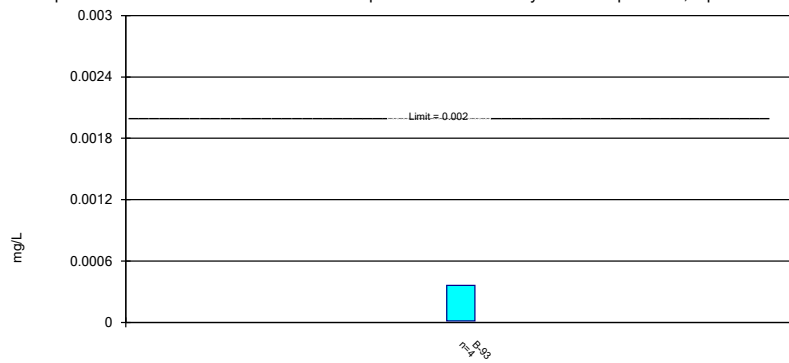
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

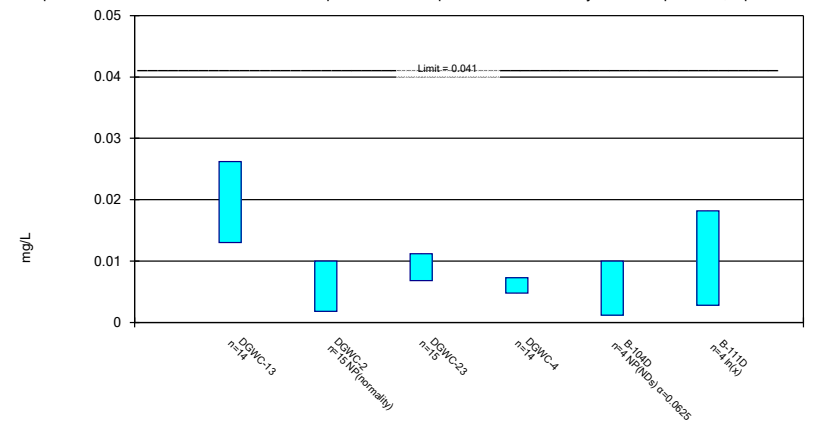
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

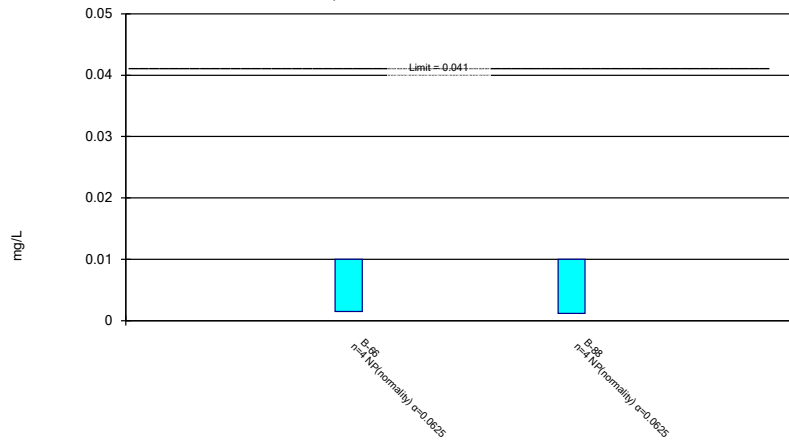
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

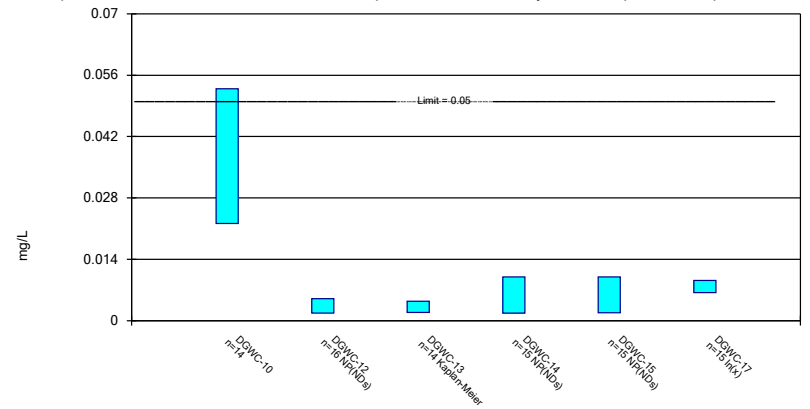
Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

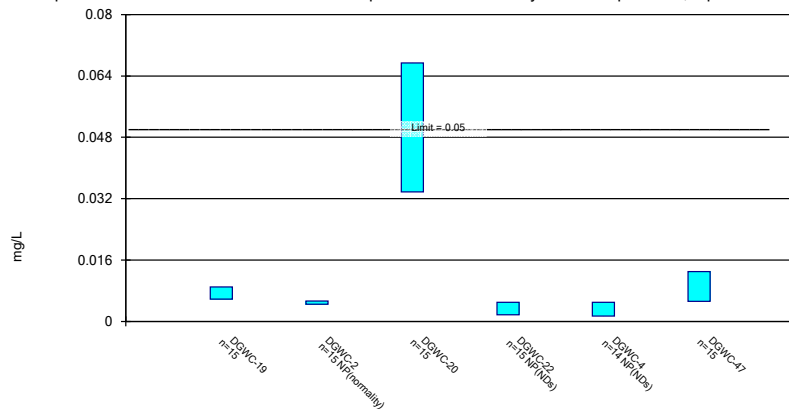
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

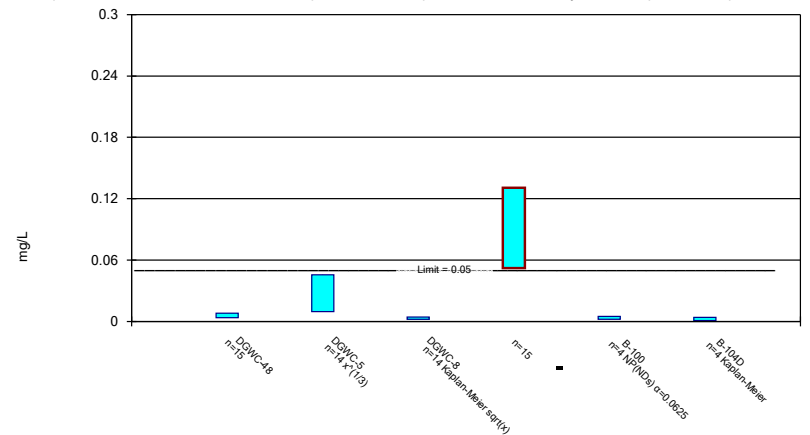
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

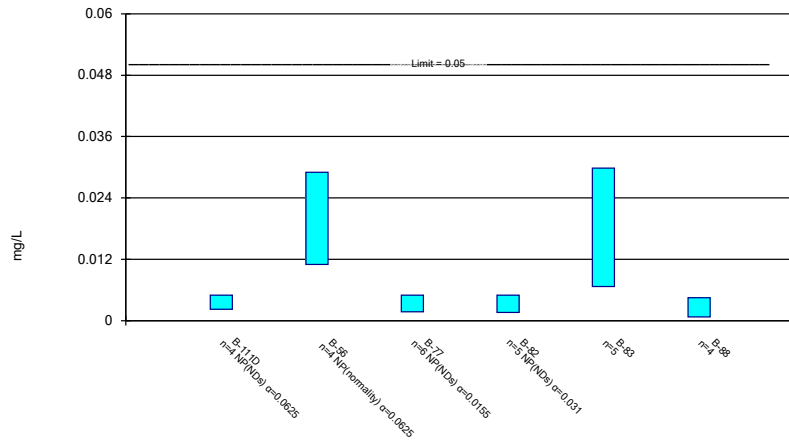
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

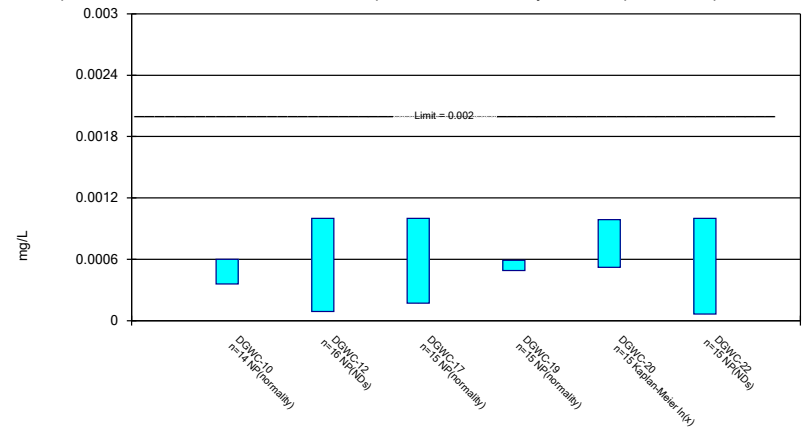
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

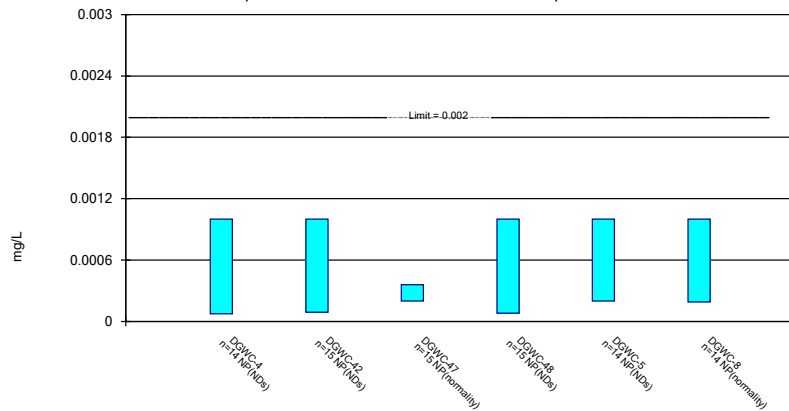
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

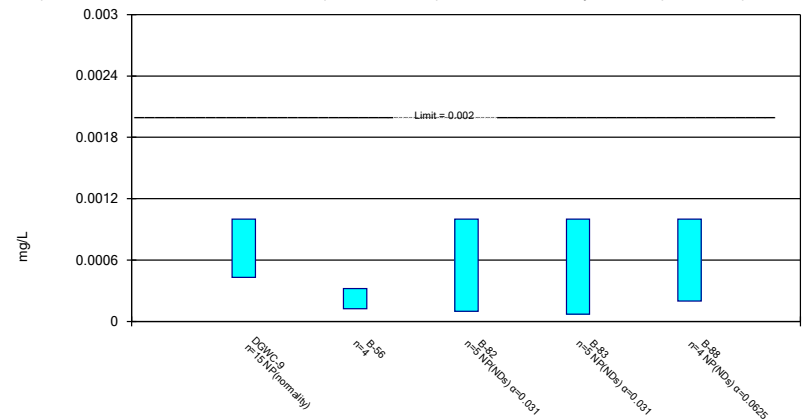
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 11/8/2021 2:22 PM 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 11/8/2021 2:22 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP



# Confidence Interval

Constituent: Antimony (mg/L)    Analysis Run 11/8/2021 2:30 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-12	DGWC-14	DGWC-15	DGWC-17	DGWC-19	DGWC-2
8/31/2016		<0.003				
9/1/2016	<0.003				<0.003	
9/6/2016			<0.003			
9/7/2016				<0.003		
12/6/2016		<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	
3/30/2017			<0.003	<0.003		<0.003
5/11/2017						<0.003
6/15/2017						0.0006 (J)
7/11/2017						<0.003
7/12/2017	<0.003	<0.003	<0.003	<0.003	<0.003	
10/24/2017						<0.003
10/25/2017	<0.003	<0.003	<0.003	<0.003	<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	<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					
10/16/2019		<0.003			<0.003	
10/17/2019			<0.003			<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			<0.003
9/24/2020				0.00045 (J)		
3/2/2021		<0.003	<0.003		<0.003	<0.003
3/3/2021	<0.003			<0.003		
9/9/2021	<0.003	<0.003	<0.003		<0.003	<0.003
9/13/2021				<0.003		
Mean	0.002831	0.002873	0.002671	0.00283	0.002824	0.00284
Std. Dev.	0.000675	0.0004906	0.0008724	0.0006584	0.0006816	0.0006197
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0003	0.0011	0.00073	0.00045	0.00036	0.0006

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-23	DGWC-4	DGWC-47	DGWC-48	DGWC-5
8/31/2016						<0.003
9/1/2016				<0.003	<0.003	
9/2/2016	<0.003					
12/6/2016						<0.003
12/8/2016	<0.003			<0.003	<0.003	
3/28/2017			<0.003			<0.003
3/30/2017	<0.003	<0.003			<0.003	
3/31/2017				<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				
7/13/2017				<0.003	<0.003	
10/24/2017			<0.003			
10/25/2017	<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					
3/1/2018		<0.003		<0.003		
3/2/2018					<0.003	
7/11/2018	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			
10/16/2019						<0.003
10/17/2019	<0.003			<0.003		
10/18/2019		<0.003			<0.003	
3/2/2020			0.00058 (J)			0.00032 (J)
3/3/2020	<0.003					
3/4/2020		<0.003		<0.003	<0.003	
8/12/2020			<0.003	<0.003		<0.003
8/13/2020		<0.003			<0.003	
8/14/2020	<0.003					
9/22/2020			<0.003			<0.003
9/23/2020				0.0012 (J)	0.00039 (J)	
9/24/2020	<0.003	<0.003				
3/1/2021			0.00049 (J)			
3/2/2021						0.0015 (J)
3/3/2021	<0.003	<0.003		<0.003	<0.003	
9/9/2021	<0.003	<0.003				
9/10/2021			<0.003	<0.003	0.0018 (J)	<0.003
Mean	0.002887	0.002847	0.002491	0.00288	0.002746	0.002701
Std. Dev.	0.0004389	0.0005939	0.001014	0.0004648	0.0007213	0.0007935
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0013	0.0007	0.0008	0.0012	0.0018	0.0015

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	B-100	B-102D	B-104D	B-111D	B-62
8/30/2016	<0.003					
12/6/2016	<0.003					
3/29/2017	<0.003					
7/11/2017	<0.003					
10/24/2017	<0.003					
2/27/2018	<0.003					
11/6/2018	<0.003					
1/30/2019						<0.003
8/28/2019	<0.003					
9/11/2019						<0.003
10/16/2019	<0.003					
10/21/2019						<0.003
3/3/2020	<0.003					
8/12/2020	<0.003					
8/13/2020						<0.003
8/17/2020		0.0013 (J)				
9/23/2020	<0.003					
9/24/2020						0.00046 (J)
9/25/2020		<0.003				
12/9/2020				0.00079 (J)	<0.003	
12/17/2020			0.0016 (J)			
1/11/2021			<0.003			
1/12/2021				0.00048 (J)	<0.003	
3/2/2021	0.00046 (J)					
3/4/2021			<0.003	0.00077 (J)		
3/5/2021					0.0006 (J)	
3/8/2021		0.0017 (J)				
3/12/2021						<0.003
9/9/2021						<0.003
9/10/2021			<0.003			
9/13/2021	<0.003	<0.003				
9/14/2021				<0.003	<0.003	
Mean	0.002819	0.00225	0.00265	0.00126	0.0024	0.002637
Std. Dev.	0.0006788	0.0008813	0.0007	0.001169	0.0012	0.00096
Upper Lim.	0.003	0.001954	0.003	0.001068	0.003	0.003
Lower Lim.	0.00046	0.001046	0.0016	0.0003847	0.0006	0.00046

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-63	B-77	B-93
1/28/2019	<0.003		
9/11/2019	<0.003		
9/18/2019		<0.003	
10/22/2019	0.00066 (J)		
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	<0.003	
9/15/2021			<0.003
Mean	0.002415	0.001737	0.0026
Std. Dev.	0.00117	0.001387	0.0008
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.00066	0.00036	0.0014

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 2:30 PM 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	
Mean	0.005386	0.004452	0.004693	0.004169	0.003395	0.002317
Std. Dev.	0.002519	0.001498	0.00119	0.001726	0.002042	0.001551
Upper Lim.	0.00717	0.005	0.005	0.005	0.005	0.002035
Lower Lim.	0.003601	0.00063	0.00039	0.0013	0.0008	0.0009847

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-22	DGWC-4	DGWC-42	DGWC-47
9/1/2016						0.0037 (J)
9/2/2016		0.0159	<0.005			
9/7/2016					<0.005	
12/7/2016		0.0037 (J)				
12/8/2016			<0.005		<0.005	0.0032 (J)
3/28/2017				0.0005 (J)		
3/29/2017		0.015	<0.005			
3/30/2017	<0.005					
3/31/2017					0.0007 (J)	0.0031 (J)
5/11/2017	<0.005					
5/12/2017				0.0005 (J)		
6/15/2017	<0.005			<0.005		
7/11/2017	<0.005			0.0008 (J)		
7/12/2017		0.0121				
7/13/2017			<0.005		<0.005	0.0018 (J)
10/24/2017	<0.005			<0.005		
10/25/2017		0.0135	<0.005		<0.005	
10/26/2017						0.0016 (J)
2/27/2018	<0.005			<0.005		
2/28/2018		0.0177	0.001 (J)		0.0011 (J)	
3/1/2018						0.0029 (J)
7/11/2018	<0.005	0.0055			<0.005	
7/12/2018			<0.005			0.0023 (J)
11/6/2018	<0.005			<0.005		
11/7/2018		0.0054	<0.005		<0.005	<0.005 (J)
8/27/2019	0.00099 (J)			<0.005		
8/28/2019					<0.005	
8/29/2019		0.0064	<0.005			0.00089 (J)
10/15/2019				<0.005		
10/17/2019	<0.005	0.0094			<0.005	0.0013 (J)
10/18/2019			<0.005			
3/2/2020				<0.005		
3/3/2020	0.0025 (J)		<0.005			
3/4/2020		0.029			<0.005	0.0012 (J)
8/11/2020	<0.005					
8/12/2020				<0.005		0.00081 (J)
8/13/2020		0.014			<0.005	
8/14/2020			<0.005			
9/22/2020		0.0063		<0.005	<0.005	
9/23/2020	<0.005					<0.005
9/24/2020			<0.005			
3/1/2021				<0.005		
3/2/2021	<0.005	0.019				
3/3/2021			<0.005		<0.005	<0.005
9/9/2021	<0.005					
9/10/2021		0.0083	<0.005	<0.005		0.0016 (J)
9/13/2021					<0.005	
Mean	0.004566	0.01208	0.004733	0.004057	0.004453	0.002627
Std. Dev.	0.00118	0.006761	0.001033	0.001875	0.001445	0.001504
Upper Lim.	0.005	0.01666	0.005	0.005	0.005	0.002647
Lower Lim.	0.0025	0.007499	0.001	0.0008	0.0011	0.001328

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-104D	B-111D
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	<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					0.0023 (J)	
9/10/2021	<0.005	0.0031 (J)		0.031		
9/13/2021			<0.005			
9/14/2021					0.0019 (J)	0.0029 (J)
Mean	0.003206	0.008443	0.00369	0.02361	0.0036	0.0038
Std. Dev.	0.002005	0.009971	0.001839	0.009468	0.001635	0.001407
Upper Lim.	0.005	0.0118	0.005	0.03003	0.002881	0.003281
Lower Lim.	0.0008	0.002817	0.0012	0.0172	0.001519	0.001919

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

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	B-56	B-77	B-93
9/18/2019		<0.005	
10/24/2019		0.0029 (J)	
8/13/2020		0.002 (J)	
8/17/2020	0.0032 (J)		
8/19/2020			0.0013 (J)
9/24/2020		0.0025 (J)	
9/28/2020	0.0047 (J)		0.0027 (J)
3/3/2021	0.003 (J)		
3/4/2021		0.002 (J)	
3/9/2021			<0.005
9/13/2021	0.0031 (J)		
9/14/2021		<0.005	
9/15/2021			<0.005
Mean	0.0035	0.003233	0.0035
Std. Dev.	0.0008042	0.001409	0.001824
Upper Lim.	0.0047	0.002882	0.003589
Lower Lim.	0.003	0.001869	0.0004108



# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	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					
Mean	0.02634	0.06139	0.02824	0.02908	0.06024	0.04751
Std. Dev.	0.004637	0.007138	0.006231	0.007369	0.003493	0.004744
Upper Lim.	0.02962	0.06644	0.03199	0.03292	0.06261	0.05073
Lower Lim.	0.02305	0.05633	0.02415	0.02732	0.05787	0.0443

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.0214				
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					
Mean	0.04901	0.02359	0.022	0.01227	0.02596	0.03483
Std. Dev.	0.01083	0.002686	0.001	0.004566	0.001505	0.004281
Upper Lim.	0.05635	0.02541	0.02268	0.01537	0.0272	0.03773
Lower Lim.	0.04167	0.02177	0.02132	0.009179	0.024	0.03193

# Confidence Interval

Constituent: Barium (mg/L)    Analysis Run 11/8/2021 2:30 PM    View: AP 234 Confidence Intervals

Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						0.0266 (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			
Mean	0.02113	0.03419	0.01836	0.01786	0.01367	0.01742
Std. Dev.	0.004092	0.002802	0.003153	0.002794	0.001016	0.001247
Upper Lim.	0.0236	0.03617	0.0205	0.01975	0.01436	0.01834
Lower Lim.	0.01844	0.0322	0.01622	0.01597	0.01298	0.01649

# Confidence Interval

Constituent: Barium (mg/L)    Analysis Run 11/8/2021 2:30 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-8	DGWC-9	B-102D	B-104D	B-111D	B-56
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						0.03
9/22/2020		0.015				
9/23/2020	0.025					
9/28/2020						0.026
12/9/2020				0.026	0.027	
12/17/2020			0.022			
1/11/2021			0.024			
1/12/2021				0.022	0.027	
3/2/2021	0.029	0.017				
3/3/2021						0.028
3/4/2021			0.022	0.021		
3/5/2021					0.038	
9/10/2021		0.014	0.02			
9/13/2021	0.019					0.026
9/14/2021				0.021	0.043	
Mean	0.03236	0.01553	0.022	0.0225	0.03375	0.0275
Std. Dev.	0.008048	0.00103	0.001633	0.00238	0.008057	0.001915
Upper Lim.	0.03806	0.01623	0.02571	0.026	0.05204	0.03185
Lower Lim.	0.02666	0.01484	0.01829	0.021	0.01546	0.02315

# Confidence Interval

Constituent: Barium (mg/L)    Analysis Run 11/8/2021 2:30 PM    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		0.028				
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					0.024	
9/24/2020	0.025			0.12		
9/25/2020						0.027
9/28/2020					0.023	
3/4/2021				0.11		0.032
3/12/2021	0.027					
9/9/2021	0.021					
9/14/2021		0.026	0.018	0.12	0.022	
9/16/2021						0.03
Mean	0.02371	0.024	0.01725	0.1077	0.026	0.0358
Std. Dev.	0.003251	0.003559	0.0009574	0.01299	0.004183	0.01158
Upper Lim.	0.02758	0.03208	0.01942	0.1255	0.03301	0.05537
Lower Lim.	0.01985	0.01592	0.01508	0.08983	0.01899	0.02029

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-88	B-93
8/17/2020	0.022	
8/19/2020		0.018
9/25/2020	0.021	
9/28/2020		0.017
3/5/2021	0.022	
3/9/2021		0.016 (J)
9/13/2021	0.016	
9/15/2021		0.016
Mean	0.02025	0.01675
Std. Dev.	0.002872	0.0009574
Upper Lim.	0.02418	0.01892
Lower Lim.	-0.01405	0.01458

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 2:30 PM 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
Mean	0.007443	0.0004964	0.0003943	0.0005256	0.0006185	0.0005727
Std. Dev.	0.002492	0.0007432	0.0007051	0.000742	0.0006715	6.808E-05
Upper Lim.	0.009208	0.003	0.00049	0.003	0.003	0.0006188
Lower Lim.	0.005678	0.00013	0.00011	7E-05	0.00022	0.0005265

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 2:30 PM 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)
Mean	0.001907	0.003673	0.000374	0.000376	0.000618	0.0004279
Std. Dev.	0.0004978	0.002056	0.0007325	0.0007316	0.0006665	0.0007463
Upper Lim.	0.0021	0.004866	0.0005	0.0005	0.0005	0.00028
Lower Lim.	0.0017	0.002215	0.0001	0.00014	0.00038	0.00019



# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016					0.0018 (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	
Mean	0.002333	0.01091	0.00838	0.007443	0.002443	0.005413
Std. Dev.	0.0006576	0.002797	0.00126	0.001758	0.00107	0.000712
Upper Lim.	0.002738	0.01281	0.009234	0.008688	0.003201	0.005896
Lower Lim.	0.002049	0.009018	0.007526	0.006197	0.001685	0.004931

# Confidence Interval

Constituent: Beryllium (mg/L)    Analysis Run 11/8/2021 2:30 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-100	B-102D	B-104D	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	0.0004 (J)			0.0013 (J)		
9/24/2020					0.00013 (J)	
9/25/2020	0.00035 (J)					
9/28/2020				0.0012 (J)		
12/9/2020			0.0013 (J)			
12/17/2020		0.0014 (J)				
1/11/2021		0.0013 (J)				
1/12/2021			0.0015 (J)			
3/3/2021				0.0011		
3/4/2021		0.0012	0.0015			
3/8/2021	0.00046 (J)					
3/12/2021					<0.0005	
9/9/2021					0.00014 (J)	
9/10/2021		0.0011				
9/13/2021	0.00053			0.0012		
9/14/2021			0.0011			0.00042 (J)
Mean	0.000435	0.00125	0.00135	0.0012	0.0002085	0.00041
Std. Dev.	7.767E-05	0.0001291	0.0001915	8.165E-05	0.000181	7.797E-05
Upper Lim.	0.0006113	0.001543	0.001785	0.001385	0.0005	0.0004803
Lower Lim.	0.0002587	0.0009569	0.0009153	0.001015	7.8E-05	0.0003037

# Confidence Interval

Constituent: Beryllium (mg/L)    Analysis Run 11/8/2021 2:30 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-77	B-82	B-83	B-93	B-98
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				
12/19/2019				0.0069	
2/17/2020					<0.0005
2/27/2020					<0.0005
8/13/2020	0.00014 (J)				
8/14/2020			0.0007 (J)		
8/17/2020		0.0014 (J)			
8/19/2020				0.015	
9/24/2020	5.3E-05 (J)				
9/25/2020			0.00028 (J)		
9/28/2020		0.0015 (J)		0.015	
3/4/2021	5.7E-05 (J)		0.00037 (J)		
3/9/2021				0.017	
3/15/2021					<0.0005
9/14/2021	<0.0005	0.0017			
9/15/2021				0.015	0.00087
9/16/2021			0.00028 (J)		
Mean	0.0002267	0.00144	0.000404	0.01378	0.0005925
Std. Dev.	0.0002142	0.0002191	0.000173	0.003942	0.000185
Upper Lim.	0.0001464	0.001807	0.0006999	0.01805	0.00087
Lower Lim.	4.658E-05	0.001073	0.0001718	0.006467	0.0005

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 2:30 PM 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)
Mean	0.001009	0.0004221	0.0003944	0.0004486	0.0004287	0.0002987
Std. Dev.	0.0002801	0.0001549	0.0001917	0.0001328	0.0002377	9.062E-05
Upper Lim.	0.001207	0.0005	0.0003426	0.0005	0.001	0.00033
Lower Lim.	0.0008102	0.00016	0.0002257	0.0002	0.00012	0.00023

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 2:30 PM 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	
Mean	0.0004207	0.0003667	0.00198	0.0006047	0.000578	0.0002967
Std. Dev.	0.0001665	0.0002335	0.0003802	0.0002024	0.0001826	0.0002115
Upper Lim.	0.0005	0.0002846	0.002238	0.0007418	0.0007017	0.0003
Lower Lim.	0.00034	0.0001314	0.001722	0.0004675	0.0004543	0.00019

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 2:30 PM 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
Mean	0.0007193	0.0008233	0.001713	0.003527	0.0006279	0.002243
Std. Dev.	0.0001538	0.0005572	0.0006896	0.001682	0.0002677	0.0003857
Upper Lim.	0.0008282	0.001109	0.002181	0.0042	0.0008175	0.002516
Lower Lim.	0.0006103	0.0004679	0.001246	0.0025	0.0004382	0.00197

# Confidence Interval

Constituent: Cadmium (mg/L)    Analysis Run 11/8/2021 2:30 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-9	B-100	B-102D	B-56	B-63	B-82
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)					
1/28/2019					<0.0005	
8/27/2019	0.00071 (J)					
9/11/2019					<0.0005	
9/23/2019						0.00044 (J)
10/17/2019	0.00064 (J)					
10/21/2019						0.00035 (J)
10/22/2019					0.00014 (J)	
3/3/2020	0.00059 (J)					
8/11/2020	0.00059 (J)					
8/17/2020		0.00059 (J)		0.00029 (J)		0.00058 (J)
9/22/2020	0.00059 (J)					
9/25/2020		0.00027 (J)				
9/28/2020				0.00024 (J)		0.00066 (J)
12/17/2020			0.00067 (J)			
1/11/2021			0.0008 (J)			
3/2/2021	0.00057					
3/3/2021				0.00026 (J)		
3/4/2021			0.00081			
3/8/2021		0.00027 (J)				
9/10/2021	0.00053		0.00083			
9/13/2021		0.00029 (J)		0.00028 (J)		
9/14/2021					0.00025 (J)	0.0007
Mean	0.0005927	0.000355	0.0007775	0.0002675	0.0003475	0.000546
Std. Dev.	0.0001373	0.000157	7.274E-05	2.217E-05	0.0001817	0.0001479
Upper Lim.	0.0006732	0.00059	0.0009243	0.0003178	0.0003199	0.0007939
Lower Lim.	0.0005032	0.00027	0.0006021	0.0002172	7.013E-05	0.0002981

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-83	B-88	B-93
10/21/2019	0.00041 (J)		
8/14/2020	0.00037 (J)		
8/17/2020		0.0018 (J)	
8/19/2020			0.00077 (J)
9/25/2020	0.00026 (J)	0.00022 (J)	
9/28/2020			0.00074 (J)
3/4/2021	0.00032 (J)		
3/5/2021		0.0065	
3/9/2021			0.00075 (J)
9/13/2021		0.0013	
9/15/2021			0.00088
9/16/2021	0.0003 (J)		
Mean	0.000332	0.002455	0.000785
Std. Dev.	5.891E-05	0.002776	6.455E-05
Upper Lim.	0.0004307	0.008758	0.0009316
Lower Lim.	0.0002333	-0.003848	0.0006384



# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:30 PM 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)
Mean	0.002321	0.003742	0.004496	0.003778	0.004423	0.003047
Std. Dev.	0.002074	0.002064	0.001378	0.002006	0.002397	0.0008651
Upper Lim.	0.005	0.005	0.005	0.005	0.01	0.0035
Lower Lim.	0.00078	0.0006	0.00099	0.00074	0.00058	0.0024

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:30 PM 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	
Mean	0.00342	0.003211	0.003467	0.00333	0.004747	0.002187
Std. Dev.	0.002022	0.002268	0.002385	0.002148	0.0009812	0.002075
Upper Lim.	0.005	0.005	0.002136	0.005	0.005	0.005
Lower Lim.	0.0023	0.0005	0.001443	0.0005	0.0012	0.0005

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:30 PM 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
Mean	0.004679	0.003082	0.004713	0.004407	0.004675	0.003391
Std. Dev.	0.001203	0.002157	0.00111	0.001567	0.001216	0.002002
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0005	0.0005	0.0007	0.0007	0.00045	0.00086

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-100	B-104D	B-56	B-62	B-63
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					
1/28/2019						<0.005
1/30/2019					<0.005	
8/27/2019	0.00048 (J)					
9/11/2019					<0.005	<0.005
10/17/2019	0.00051 (J)					
10/21/2019					0.00098 (J)	
10/22/2019						0.00064 (J)
3/3/2020	0.0057 (J)					
8/11/2020	0.00061 (J)					
8/13/2020					<0.005	
8/17/2020		<0.005		0.0014 (J)		
9/22/2020	<0.005					
9/24/2020					<0.005	
9/25/2020		0.00094 (J)				
9/28/2020				<0.005		
12/9/2020			0.0011 (J)			
1/12/2021			<0.005			
3/2/2021	0.00059 (J)					
3/3/2021				0.00059 (J)		
3/4/2021			<0.005			
3/8/2021		0.00057 (J)				
3/12/2021					<0.005	
9/9/2021					<0.005	
9/10/2021	<0.005					
9/13/2021		<0.005		<0.005		
9/14/2021			<0.005			<0.005
Mean	0.003593	0.002877	0.004025	0.002997	0.004426	0.00391
Std. Dev.	0.002173	0.002456	0.00195	0.002336	0.001519	0.00218
Upper Lim.	0.0057	0.001223	0.005	0.001914	0.005	0.005
Lower Lim.	0.00059	0.0003828	0.0011	7.551E-05	0.00098	0.00064

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-77	B-82	B-88	B-93
9/18/2019	0.00068 (J)			
9/23/2019		0.0011 (J)		
10/21/2019		<0.005		
10/24/2019	<0.005			
8/13/2020	0.0021 (J)			
8/17/2020		<0.005	0.0014 (J)	
8/19/2020				0.00057 (J)
9/24/2020	0.0007 (J)			
9/25/2020			0.00085 (J)	
9/28/2020		<0.005		0.00066 (J)
3/4/2021	0.00098 (J)			
3/5/2021			0.0017 (J)	
3/9/2021				<0.005
9/13/2021			<0.005	
9/14/2021	<0.005	<0.005		
9/15/2021				<0.005
Mean	0.00241	0.00422	0.002237	0.002807
Std. Dev.	0.002072	0.001744	0.001875	0.002532
Upper Lim.	0.001858	0.005	0.002116	0.005
Lower Lim.	0.0005328	0.0011	0.0005176	0.00057

# Confidence Interval

Constituent: Cobalt (mg/L)    Analysis Run 11/8/2021 2:30 PM    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
Mean	0.1537	0.001481	0.008125	0.002056	0.003653	0.02313
Std. Dev.	0.04866	0.0009221	0.009711	0.0008832	0.005947	0.00641
Upper Lim.	0.1888	0.0025	0.013	0.0025	0.0028	0.02716
Lower Lim.	0.1413	0.0006	0.0021	0.0005	0.0016	0.02022

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 2:30 PM 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	
Mean	0.05128	0.01761	0.5575	0.00862	0.008533	0.00183
Std. Dev.	0.002996	0.01155	0.1355	0.002141	0.002244	0.001357
Upper Lim.	0.05331	0.0284	0.6394	0.009773	0.009945	0.005
Lower Lim.	0.04925	0.0062	0.4659	0.008552	0.007492	0.00039

# Confidence Interval

Constituent: Cobalt (mg/L)    Analysis Run 11/8/2021 2:30 PM    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
Mean	0.002021	0.03087	0.3194	0.4547	0.02794	0.06596
Std. Dev.	0.000904	0.02013	0.09792	0.07771	0.01109	0.03083
Upper Lim.	0.0021	0.04451	0.3858	0.5073	0.04	0.0878
Lower Lim.	0.0015	0.01723	0.253	0.402	0.02	0.04412



# Confidence Interval

Constituent: Cobalt (mg/L)    Analysis Run 11/8/2021 2:30 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-9	B-102D	B-104D	B-111D	B-56	B-62
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					
1/30/2019						<0.005
8/27/2019	0.24					
9/11/2019						0.0003 (J)
10/17/2019	0.21					
10/21/2019						0.00031 (J)
3/3/2020	0.2					
8/11/2020	0.22					
8/13/2020						<0.005
8/17/2020					0.042	
9/22/2020	0.16					
9/24/2020						<0.005
9/28/2020					0.042	
12/9/2020			0.17	0.00076 (J)		
12/17/2020		0.014				
1/11/2021		0.015				
1/12/2021			0.19	0.0007 (J)		
3/2/2021	0.18					
3/3/2021					0.05	
3/4/2021		0.014	0.19			
3/5/2021				0.00052 (J)		
3/12/2021						<0.005
9/9/2021						<0.005
9/10/2021	0.21	0.013				
9/13/2021					0.047	
9/14/2021			0.1	<0.005		
Mean	0.1724	0.014	0.1625	0.00112	0.04525	0.001873
Std. Dev.	0.04231	0.0008165	0.04272	0.0009256	0.003948	0.001071
Upper Lim.	0.201	0.01585	0.2361	0.0009228	0.05421	0.0025
Lower Lim.	0.1437	0.01215	-0.01451	0.0004439	0.03629	0.0003

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-63	B-66	B-82	B-93
1/28/2019	0.053			
1/30/2019		<0.005		
9/11/2019	0.043			
9/12/2019		0.006		
9/23/2019			0.0038 (J)	
10/21/2019		0.0074	0.0089	
10/22/2019	0.046			
12/19/2019				0.066
8/17/2020			0.0028 (J)	
8/19/2020				0.068
9/28/2020			0.0053	0.064
3/9/2021				0.061
3/12/2021	0.046	0.01	0.0021 (J)	
9/14/2021	0.037	0.012	0.0015 (J)	
9/15/2021				0.062
Mean	0.045	0.00758	0.004067	0.0642
Std. Dev.	0.005788	0.003665	0.002721	0.002864
Upper Lim.	0.0547	0.01241	0.007804	0.069
Lower Lim.	0.0353	0.003754	0.0003291	0.0594

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	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)					
Mean	1.284	0.9694	0.8984	1.26	0.8972	1.118
Std. Dev.	0.314	0.4467	0.714	0.3303	0.303	0.8748
Upper Lim.	1.497	1.272	1.27	1.484	1.103	1.553
Lower Lim.	1.071	0.6667	0.4013	1.036	0.6919	0.551

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		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)					
Mean	0.8113	0.7733	1.168	1.21	0.8557	1.049
Std. Dev.	0.3526	0.3942	0.4067	0.4913	0.3972	0.4659
Upper Lim.	1.05	1.04	1.444	1.543	1.125	1.364
Lower Lim.	0.5723	0.5062	0.8924	0.8767	0.5866	0.733

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						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)			
Mean	1.133	1.454	0.9499	2.344	2.03	1.431
Std. Dev.	0.5259	0.3939	0.3231	0.8249	0.6435	0.6015
Upper Lim.	1.489	1.721	1.169	2.903	2.415	1.839
Lower Lim.	0.7765	1.187	0.7309	1.785	1.602	1.024

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-104D	B-111D	B-56	B-62
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				
1/30/2019						1.97 (U)
8/27/2019		1.55				
8/28/2019	0.815 (U)					
10/16/2019	0.999 (U)					
10/17/2019		0.702 (U)				
10/21/2019						1.82
3/3/2020	0.481 (U)	1.37				
8/11/2020		0.819 (U)				
8/12/2020	0.721 (U)					
8/13/2020						1.63
8/17/2020					1.15 (U)	
9/22/2020		1.15 (U)				
9/23/2020	0.8 (U)					
9/24/2020						1.28 (U)
9/28/2020					1.39	
12/9/2020			15.2	12.3		
1/12/2021			17	9.63		
3/2/2021	0.751 (U)	1.29 (U)				
3/3/2021					1.01 (U)	
3/4/2021			14.5			
3/5/2021				9.05		
3/12/2021						1.18 (U)
9/9/2021						1.7
9/10/2021		1.28				
9/13/2021	0.916 (U)				0.854 (U)	
9/14/2021			9.6	4.39		
Mean	0.6602	1.196	14.08	8.843	1.101	1.597
Std. Dev.	0.2668	0.3583	3.164	3.288	0.2275	0.3082
Upper Lim.	0.841	1.439	21.26	16.31	1.617	2.02
Lower Lim.	0.4794	0.9531	6.892	1.377	0.5846	1.173

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

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	B-82	B-93
10/21/2019	0.63 (U)	
8/17/2020	0.662 (U)	
8/19/2020		1.19 (U)
9/28/2020	0.747 (U)	1.54
3/9/2021		0.786 (U)
9/14/2021	1.03 (U)	
9/15/2021		1.84
Mean	0.7673	1.339
Std. Dev.	0.182	0.4544
Upper Lim.	1.18	2.371
Lower Lim.	0.3541	0.3074

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	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					
Mean	1.604	0.0804	0.1588	0.157	0.08588	0.1054
Std. Dev.	0.3955	0.0261	0.1448	0.1093	0.02643	0.04361
Upper Lim.	1.862	0.1	0.1641	0.2134	0.1	0.11
Lower Lim.	1.347	0.052	0.05529	0.08589	0.052	0.079



# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.75				
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)					
Mean	0.2039	0.3713	0.1429	0.675	0.107	0.1185
Std. Dev.	0.1552	0.313	0.1586	0.4218	0.06664	0.06532
Upper Lim.	0.2722	0.5135	0.28	0.9494	0.14	0.13
Lower Lim.	0.09774	0.1749	0.052	0.4006	0.07	0.09

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						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			
Mean	0.1852	0.1364	0.0925	0.8313	0.9006	0.5667
Std. Dev.	0.1558	0.1776	0.02176	0.4835	0.4445	0.4567
Upper Lim.	0.2262	0.17	0.1	1.146	1.19	0.7808
Lower Lim.	0.09243	0.082	0.06	0.5167	0.6114	0.2378

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-102D	B-104D	B-111D	B-62
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				
1/30/2019						0.43
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				
10/21/2019						0.23 (J)
3/3/2020	<0.1	1.4				
8/11/2020		1.3				
8/12/2020	0.056 (J)					
8/13/2020						0.11
9/22/2020		0.99				
9/23/2020	<0.1					
9/24/2020						0.093 (J)
12/9/2020				0.33	0.33	
12/17/2020			0.079 (J)			
1/11/2021			0.077 (J)			
1/12/2021				0.36	0.32	
3/2/2021	0.059 (J)	0.93				
3/4/2021			0.11	0.43		
3/5/2021					0.51	
3/12/2021						0.11
9/9/2021						0.14
9/10/2021		2	0.083 (J)			
9/13/2021	0.069 (J)					
9/14/2021				0.5	0.57	
Mean	0.2868	1.178	0.08725	0.405	0.4325	0.1855
Std. Dev.	0.2338	0.3265	0.01537	0.07594	0.1266	0.1295
Upper Lim.	0.4095	1.391	0.11	0.5774	0.7199	0.3546
Lower Lim.	0.1193	0.9657	0.077	0.2326	0.1451	0.06003

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

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	B-77	B-83	B-93
10/21/2019		0.13 (J)	
10/24/2019	0.096 (J)		
8/13/2020	<0.1		
8/14/2020		0.05 (J)	
8/19/2020			0.32
9/24/2020	<0.1		
9/25/2020		<0.1	
9/28/2020			0.3
3/4/2021	<0.1	0.071 (J)	
3/9/2021			0.34
9/14/2021	0.078 (J)		
9/15/2021			0.34
9/16/2021		0.066 (J)	
Mean	0.0948	0.0834	0.325
Std. Dev.	0.00955	0.0317	0.01915
Upper Lim.	0.1	0.1232	0.3685
Lower Lim.	0.078	0.02857	0.2815

# Confidence Interval

Constituent: Lead (mg/L)    Analysis Run 11/8/2021 2:30 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	<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					
Mean	0.0006273	0.0006785	0.0008881	0.0008784	0.0008149	0.0007161
Std. Dev.	0.0004481	0.0004481	0.0003057	0.0003097	0.0003834	0.0004487
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 11/8/2021 2:30 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-23
9/1/2016		<0.001				
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					
Mean	0.0005862	0.0007059	0.0005156	0.0007311	0.0006177	0.0009377
Std. Dev.	0.0004585	0.0004334	0.0004693	0.0003691	0.0004296	0.0002412
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	9E-05	7E-05	8.6E-05	0.00015	0.00014	6.6E-05

# Confidence Interval

Constituent: Lead (mg/L)    Analysis Run 11/8/2021 2:30 PM    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
Mean	0.0007478	0.0008147	0.001081	0.001664	0.0005984	0.0006273
Std. Dev.	0.0004149	0.001228	0.001106	0.001169	0.0006777	0.0004132
Upper Lim.	0.001	0.0004678	0.0011	0.0022	0.001	0.001
Lower Lim.	0.00012	0.0001549	0.00053	0.00095	5.1E-05	0.00011

# Confidence Interval

Constituent: Lead (mg/L)    Analysis Run 11/8/2021 2:30 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-9	B-100	B-102D	B-104D	B-111D	B-56
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)				0.00022 (J)
9/22/2020	0.00015 (J)					
9/25/2020		0.00021 (J)				
9/28/2020						9.1E-05 (J)
12/9/2020				5.1E-05 (J)	5.8E-05 (J)	
12/17/2020			3.7E-05 (J)			
1/11/2021			5E-05 (J)			
1/12/2021				<0.001	5.1E-05 (J)	
3/2/2021	0.00028 (J)					
3/3/2021						0.0001 (J)
3/4/2021			5.9E-05 (J)	<0.001		
3/5/2021					<0.001	
3/8/2021		0.00018 (J)				
9/10/2021	<0.001		<0.001			
9/13/2021		<0.001				<0.001
9/14/2021				<0.001	<0.001	
Mean	0.00084	0.0003695	0.0002865	0.0007628	0.0005273	0.0003528
Std. Dev.	0.0003323	0.0004235	0.0004758	0.0004745	0.0005459	0.0004355
Upper Lim.	0.001	0.0003036	0.001	0.001	0.001	0.0002854
Lower Lim.	0.00028	5.528E-05	3.7E-05	5.1E-05	5.1E-05	3.627E-05



# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-63	B-82	B-88	B-93
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		5.9E-05 (J)	0.00081 (J)	
8/19/2020				0.00012 (J)
9/25/2020			0.00035 (J)	
9/28/2020		0.00011 (J)		0.00012 (J)
3/5/2021			0.012	
3/9/2021				<0.001
9/13/2021			<0.001	
9/14/2021	<0.001	<0.001		
9/15/2021				<0.001
Mean	0.00053	0.0004658	0.00354	0.00056
Std. Dev.	0.0005428	0.000489	0.005647	0.0005081
Upper Lim.	0.001	0.0001911	0.02767	0.001
Lower Lim.	4.7E-05	4.858E-05	4.865E-05	0.00012

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	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)					
Mean	0.005343	0.003186	0.01064	0.004879	0.00472	0.00625
Std. Dev.	0.004279	0.003418	0.006685	0.004297	0.003078	0.0008465
Upper Lim.	0.006793	0.0028	0.015	0.0036	0.0044	0.0066
Lower Lim.	0.002702	0.0019	0.0011	0.0029	0.0032	0.0058

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.0034 (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					
Mean	0.009434	0.003993	0.04906	0.006407	0.00656	0.00484
Std. Dev.	0.007057	0.003053	0.03031	0.005611	0.00236	0.002836
Upper Lim.	0.015	0.0035	0.085	0.012	0.0065	0.0046
Lower Lim.	0.00096	0.003	0.023	0.0021	0.0057	0.0037

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						0.0026 (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)			
Mean	0.01165	0.003786	0.01137	0.06622	0.1165	0.006343
Std. Dev.	0.01832	0.003256	0.001928	0.01232	0.01544	0.003062
Upper Lim.	0.01279	0.0035	0.01268	0.07457	0.1269	0.008199
Lower Lim.	0.003816	0.0025	0.01007	0.05787	0.106	0.004206

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100	B-102D	B-104D	B-56
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)			0.0056 (J)
9/22/2020		0.025 (J)				
9/23/2020	0.0045 (J)					
9/25/2020			0.0027 (J)			
9/28/2020						0.005 (J)
12/9/2020					0.039 (J)	
12/17/2020				0.012 (J)		
1/11/2021				0.015 (J)		
1/12/2021					0.039	
3/2/2021	0.0046 (J)	0.028 (J)				
3/3/2021						0.0051 (J)
3/4/2021				0.014 (J)	0.038	
3/8/2021			0.0024 (J)			
9/10/2021		0.027 (J)		0.012 (J)		
9/13/2021	0.0034 (J)		0.0022 (J)			0.0055 (J)
9/14/2021					0.036	
Mean	0.006036	0.02629	0.00215	0.01325	0.038	0.0053
Std. Dev.	0.002823	0.004445	0.0006028	0.0015	0.001414	0.0002944
Upper Lim.	0.0072	0.02931	0.003519	0.01666	0.04121	0.005968
Lower Lim.	0.0045	0.02328	0.0007815	0.009844	0.03479	0.004632

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-62	B-63	B-83	B-93
1/28/2019		<0.03		
1/30/2019	<0.03			
9/11/2019	0.0078 (J)	0.0064 (J)		
10/21/2019	0.0078 (J)		0.003 (J)	
10/22/2019		0.0062 (J)		
8/13/2020	0.0087 (J)			
8/14/2020			0.0045 (J)	
8/19/2020				0.011 (J)
9/24/2020	0.0084 (J)			
9/25/2020			0.0018 (J)	
9/28/2020				0.011 (J)
3/4/2021			0.0024 (J)	
3/9/2021				0.012 (J)
3/12/2021	0.0087 (J)	0.0066 (J)		
9/9/2021	0.0094 (J)			
9/14/2021		0.0064 (J)		
9/15/2021				0.011 (J)
9/16/2021			0.0021 (J)	
Mean	0.0094	0.00812	0.00276	0.01125
Std. Dev.	0.002532	0.003849	0.001069	0.0005
Upper Lim.	0.015	0.015	0.004551	0.012
Lower Lim.	0.0078	0.0062	0.0009685	0.011

# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	7E-05 (J)	5E-05 (J)			5E-05 (J)	
9/1/2016			9E-05 (J)			
9/6/2016				<0.0002		<0.0002
12/6/2016	9E-05 (J)	8E-05 (J)			8E-05 (J)	
12/7/2016			<0.0002	9E-05 (J)		<0.0002
3/29/2017	8E-05 (J)	6E-05 (J)	0.00014 (J)		6E-05 (J)	
3/30/2017				7E-05 (J)		6E-05 (J)
7/12/2017	<0.0002	<0.0002	8E-05 (J)	<0.0002	<0.0002	<0.0002
10/24/2017	<0.0002	<0.0002				
10/25/2017			6E-05 (J)		<0.0002	<0.0002
11/15/2017				<0.0002		
2/27/2018	<0.0002	<0.0002	6E-05 (J)		<0.0002	
2/28/2018				<0.0002		<0.0002
7/11/2018			3.6E-05 (J)		<0.0002	<0.0002
11/6/2018	<0.0002	<0.0002				
11/7/2018			<0.0002	<0.0002	<0.0002	<0.0002
8/27/2019	<0.0002	<0.0002	<0.0002		<0.0002	
8/28/2019				<0.0002		<0.0002
9/17/2019			<0.0002			
10/15/2019	<0.0002	<0.0002	<0.0002			
10/16/2019				<0.0002	<0.0002	
10/17/2019						<0.0002
3/2/2020		<0.0002	<0.0002			
3/3/2020	<0.0002			<0.0002	<0.0002	<0.0002
8/11/2020	<0.0002	<0.0002	<0.0002		<0.0002	
8/12/2020				<0.0002		
8/13/2020						<0.0002
9/22/2020		<0.0002	<0.0002		<0.0002	
9/23/2020				<0.0002		<0.0002
9/24/2020	8.1E-05 (J)					
3/2/2021		<0.0002		<0.0002	<0.0002	<0.0002
3/3/2021			<0.0002			
3/4/2021	<0.0002					
9/9/2021		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/10/2021	<0.0002					
Mean	0.0001658	0.0001707	0.0001541	0.0001829	0.0001727	0.0001907
Std. Dev.	5.628E-05	5.85E-05	6.456E-05	4.375E-05	5.688E-05	3.615E-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 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		4E-05 (J)				
9/2/2016				<0.0002	6E-05 (J)	5E-05 (J)
9/7/2016	6E-05 (J)					
12/7/2016		5E-05 (J)		8E-05 (J)		
12/8/2016	<0.0002				<0.0002	<0.0002
3/29/2017		9E-05 (J)		8E-05 (J)		0.0001 (J)
3/30/2017	0.00012 (J)		7E-05 (J)		8E-05 (J)	
5/11/2017			8.3E-05 (J)			
6/15/2017			8E-05 (J)			
7/11/2017			<0.0002			
7/12/2017	5E-05 (J)	<0.0002		<0.0002	6E-05 (J)	
7/13/2017						<0.0002
10/24/2017			<0.0002			
10/25/2017	5E-05 (J)	<0.0002		<0.0002	5E-05 (J)	<0.0002
2/27/2018			<0.0002			
2/28/2018	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
7/11/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
7/12/2018						5.5E-05 (J)
11/6/2018			0.00064			
11/7/2018	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
8/27/2019	0.00016 (J)		<0.0002			
8/28/2019		<0.0002				
8/29/2019				<0.0002	<0.0002	<0.0002
10/16/2019		<0.0002				
10/17/2019			<0.0002	<0.0002	<0.0002	
10/18/2019	<0.0002					<0.0002
3/3/2020		<0.0002	<0.0002		<0.0002	<0.0002
3/4/2020	<0.0002			<0.0002		
8/11/2020		<0.0002	<0.0002			
8/13/2020				<0.0002		
8/14/2020	9.8E-05 (J)				<0.0002	<0.0002
9/22/2020		<0.0002		<0.0002		
9/23/2020			<0.0002			
9/24/2020	8.2E-05 (J)				0.00012 (J)	<0.0002
3/2/2021		<0.0002	<0.0002	9E-05 (J)		
3/3/2021	<0.0002				<0.0002	<0.0002
9/9/2021		<0.0002	<0.0002		<0.0002	
9/10/2021				<0.0002		0.00011 (J)
9/13/2021	8.6E-05 (J)					
Mean	0.0001404	0.000172	0.0002049	0.0001767	0.000158	0.0001677
Std. Dev.	6.361E-05	5.882E-05	0.0001304	4.835E-05	6.327E-05	5.729E-05
Upper Lim.	0.0002	0.0002	0.00064	0.0002	0.0002	0.0002
Lower Lim.	6E-05	9E-05	8.3E-05	9E-05	6E-05	0.0001



# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-48	DGWC-5	DGWC-8
8/30/2016						9E-05 (J)
8/31/2016					0.00015 (J)	
9/1/2016				<0.0002		
9/7/2016			<0.0002			
12/6/2016					0.00012 (J)	0.0001 (J)
12/8/2016			<0.0002	<0.0002		
3/28/2017		<0.0002			0.00017 (J)	
3/29/2017						0.00012 (J)
3/30/2017	0.0002 (J)			6E-05 (J)		
3/31/2017			4E-05 (J)			
5/12/2017	0.00015 (J)	8.2E-05 (J)				
6/15/2017	0.00019 (J)	8E-05 (J)				
7/11/2017		<0.0002			0.0002 (J)	6E-05 (J)
7/12/2017	0.00012 (J)					
7/13/2017			<0.0002	<0.0002		
10/24/2017		<0.0002				<0.0002
10/25/2017			<0.0002		9E-05 (J)	
10/26/2017	0.00012 (J)			<0.0002		
2/27/2018		<0.0002			9E-05 (J)	4.2E-05 (J)
2/28/2018			<0.0002			
3/1/2018	<0.0002					
3/2/2018				<0.0002		
7/11/2018			<0.0002			
7/12/2018	0.00016 (J)			<0.0002		
11/6/2018		0.00059			0.00055	<0.0002
11/7/2018			<0.0002	<0.0002		
11/8/2018	<0.0002					
8/27/2019		<0.0002			0.00016 (J)	
8/28/2019			<0.0002			<0.0002
8/29/2019	<0.0002			<0.0002		
10/15/2019		<0.0002				
10/16/2019					<0.0002	<0.0002
10/17/2019			<0.0002			
10/18/2019	<0.0002			<0.0002		
3/2/2020		<0.0002			<0.0002	
3/3/2020						<0.0002
3/4/2020	0.00026		<0.0002	<0.0002		
8/12/2020		<0.0002			0.00017 (J)	7.9E-05 (J)
8/13/2020	0.00014 (J)		<0.0002	<0.0002		
9/22/2020		<0.0002	<0.0002		0.0002 (J)	
9/23/2020				<0.0002		<0.0002
9/24/2020	0.0002 (J)					
3/1/2021		<0.0002				
3/2/2021					9.4E-05 (J)	<0.0002
3/3/2021	0.00033		<0.0002	<0.0002		
9/9/2021	0.00011 (J)					
9/10/2021		0.00013 (J)		<0.0002	0.0003	
9/13/2021			<0.0002			<0.0002
Mean	0.0001853	0.0002059	0.0001893	0.0001907	0.0001924	0.0001494
Std. Dev.	5.73E-05	0.0001192	4.131E-05	3.615E-05	0.0001175	6.312E-05
Upper Lim.	0.0002053	0.00059	0.0002	0.0002	0.0002402	0.0002
Lower Lim.	0.0001241	0.00013	4E-05	6E-05	0.0001202	7.9E-05

# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-104D	B-111D	B-56	B-82	B-88
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)					
9/23/2019					<0.0002	
10/17/2019	0.00042 (J)					
10/21/2019					<0.0002	
3/3/2020	<0.0002					
8/11/2020	0.00026					
8/17/2020				0.00016 (J)	0.00011 (J)	0.00011 (J)
9/22/2020	0.00013 (J)					
9/25/2020						<0.0002
9/28/2020				<0.0002	<0.0002	
12/9/2020		7.9E-05 (J)	9.4E-05 (J)			
1/12/2021		<0.0002	<0.0002			
3/2/2021	0.00017 (J)					
3/3/2021				<0.0002		
3/4/2021		<0.0002				
3/5/2021			<0.0002			0.0001 (J)
9/10/2021	0.00014 (J)					
9/13/2021				<0.0002		<0.0002
9/14/2021		<0.0002	<0.0002		<0.0002	
Mean	0.0001881	0.0001697	0.0001735	0.00019	0.000182	0.0001525
Std. Dev.	8.736E-05	6.05E-05	5.3E-05	2E-05	4.025E-05	5.5E-05
Upper Lim.	0.00021	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00013	7.9E-05	9.4E-05	0.00016	0.00011	0.0001

# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-93
8/19/2020	0.00026
9/28/2020	0.00024 (J)
3/9/2021	0.00015 (J)
9/15/2021	9.8E-05 (J)
Mean	0.000187
Std. Dev.	7.622E-05
Upper Lim.	0.00036
Lower Lim.	1.396E-05

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-13	DGWC-2	DGWC-23	DGWC-4	B-104D	B-111D
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)			
12/9/2020				0.0012 (J)	0.0055 (J)	
1/12/2021				<0.01	0.0054 (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					0.0067 (J)	
9/9/2021	0.011	0.0023 (J)	0.01			
9/10/2021				0.0052 (J)		
9/14/2021				<0.01	0.013	
Mean	0.01961	0.005093	0.008993	0.006007	0.0078	0.00765
Std. Dev.	0.009301	0.004167	0.003208	0.001765	0.0044	0.003615
Upper Lim.	0.0262	0.01	0.01117	0.007258	0.01	0.01817
Lower Lim.	0.01302	0.0018	0.00682	0.004757	0.0012	0.002799

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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)
3/5/2021		<0.01
9/13/2021		<0.01
9/14/2021	<0.01	
Mean	0.005825	0.0056
Std. Dev.	0.004822	0.005081
Upper Lim.	0.01	0.01
Lower Lim.	0.0015	0.0012

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 2:30 PM 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
Mean	0.03752	0.003931	0.004307	0.004227	0.00512	0.007953
Std. Dev.	0.0217	0.002266	0.00244	0.002257	0.001582	0.002359
Upper Lim.	0.05289	0.005	0.004442	0.01	0.01	0.009189
Lower Lim.	0.02215	0.0017	0.0019	0.0017	0.0018	0.006423

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 2:30 PM 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)
Mean	0.00736	0.005193	0.05061	0.00478	0.004743	0.009133
Std. Dev.	0.00234	0.001557	0.02481	0.0008521	0.0009621	0.005718
Upper Lim.	0.008946	0.0053	0.06742	0.005	0.005	0.01301
Lower Lim.	0.005774	0.0045	0.0338	0.0017	0.0014	0.005259

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-100	B-104D
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	
12/9/2020						<0.005
1/12/2021						0.0016 (J)
3/2/2021		0.0081	<0.005	0.07		
3/3/2021	0.0025 (J)					
3/4/2021						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	
9/14/2021						<0.005
Mean	0.00582	0.03263	0.004586	0.09144	0.004225	0.003675
Std. Dev.	0.003285	0.04214	0.002144	0.0581	0.00155	0.001648
Upper Lim.	0.008046	0.0457	0.00408	0.1308	0.005	0.004053
Lower Lim.	0.003594	0.00964	0.002153	0.05207	0.0019	0.0006472



# Confidence Interval

Constituent: Selenium (mg/L)    Analysis Run 11/8/2021 2:30 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-111D	B-56	B-77	B-82	B-83	B-88
9/18/2019			<0.005			
9/23/2019				<0.005		
10/21/2019				0.0016 (J)	0.0082 (J)	
10/24/2019			<0.005			
8/13/2020			<0.005			
8/14/2020					0.015	
8/17/2020		0.011		<0.005		0.0017 (J)
9/24/2020			<0.005			
9/25/2020					0.019	0.0033 (J)
9/28/2020		0.029		0.0021 (J)		
12/9/2020	<0.005					
1/12/2021	<0.005					
3/3/2021		0.013				
3/4/2021			0.0017 (J)		0.024	
3/5/2021	0.0022 (J)					0.0033 (J)
9/13/2021		0.011				0.0021 (J)
9/14/2021	<0.005		<0.005	<0.005		
9/16/2021					0.025	
Mean	0.0043	0.016	0.00445	0.00374	0.01824	0.0026
Std. Dev.	0.0014	0.008718	0.001347	0.001734	0.006906	0.0008246
Upper Lim.	0.005	0.029	0.005	0.005	0.02981	0.004472
Lower Lim.	0.0022	0.011	0.0017	0.0016	0.006668	0.0007278

# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 2:30 PM 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		<0.001		0.0005 (J)		
9/2/2016					<0.001	<0.001
9/7/2016			<0.001			
12/6/2016	0.0004 (J)					
12/7/2016		<0.001		0.0005 (J)	0.0006 (J)	
12/8/2016			<0.001			<0.001
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	<0.001	<0.001				
2/28/2018			0.00015 (J)	0.00049 (J)	<0.001	<0.001
7/11/2018		<0.001	0.00017 (J)	0.0005 (J)	<0.001	
7/12/2018						<0.001
11/6/2018	<0.001 (J)					
11/7/2018		<0.001	<0.001	<0.001 (J)	<0.001 (J)	<0.001
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)			<0.001
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)	<0.001		0.00059 (J)		
8/13/2020					0.0016 (J)	
8/14/2020			0.00019 (J)			<0.001
9/22/2020		<0.001		0.0005 (J)	0.00055 (J)	
9/24/2020	0.00034 (J)		0.00018 (J)			<0.001
3/2/2021				0.00056 (J)	0.0014 (J)	
3/3/2021		<0.001	0.00017 (J)			<0.001
3/4/2021	0.00042 (J)					
9/9/2021		<0.001		0.00056 (J)		
9/10/2021	0.00027 (J)				0.00052 (J)	<0.001
9/13/2021			<0.001			
Mean	0.0004907	0.0006042	0.000398	0.000544	0.000942	0.0006889
Std. Dev.	0.0002285	0.0004636	0.0003761	0.0001384	0.0004995	0.0004554
Upper Lim.	0.0006	0.001	0.001	0.00059	0.000988	0.001
Lower Lim.	0.00036	9E-05	0.00017	0.00049	0.0005219	6.4E-05

# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 2:30 PM 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					<0.001	
9/1/2016			0.0002 (J)	<0.001		
9/7/2016		<0.001				
12/6/2016					<0.001	<0.001
12/8/2016		<0.001	<0.001	<0.001		
3/28/2017	<0.001				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	<0.001					
6/15/2017	<0.001					
7/11/2017	<0.001				<0.001	0.0001 (J)
7/13/2017		9E-05 (J)	0.0002 (J)	8E-05 (J)		
10/24/2017	<0.001					0.0003 (J)
10/25/2017		9E-05 (J)			<0.001	
10/26/2017			0.0003 (J)	9E-05 (J)		
2/27/2018	<0.001				<0.001	0.00033 (J)
2/28/2018		<0.001				
3/1/2018			0.00032 (J)			
3/2/2018				<0.001		
7/11/2018		<0.001				
7/12/2018			0.00031 (J)	<0.001		
11/6/2018	<0.001				<0.001	<0.001 (J)
11/7/2018		<0.001	<0.001 (J)	<0.001		
8/27/2019	<0.001				<0.001	
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		<0.001	0.00025 (J)			
10/18/2019				<0.001		
3/2/2020	<0.001				6.2E-05 (J)	
3/3/2020						0.00023 (J)
3/4/2020		<0.001	0.00021 (J)	6.8E-05 (J)		
8/12/2020	<0.001		0.00018 (J)		<0.001	0.00023 (J)
8/13/2020		<0.001		<0.001		
9/22/2020	<0.001	<0.001			<0.001	
9/23/2020			0.00026 (J)	<0.001		0.0002 (J)
3/1/2021	<0.001					
3/2/2021					<0.001	0.00019 (J)
3/3/2021		<0.001	0.00023 (J)	<0.001		
9/10/2021	<0.001		0.00036 (J)	<0.001	<0.001	
9/13/2021		<0.001				0.00019 (J)
Mean	0.0009338	0.0007559	0.0003513	0.0006937	0.00081	0.0003886
Std. Dev.	0.0002478	0.000419	0.0002684	0.0004484	0.0003787	0.0003356
Upper Lim.	0.001	0.001	0.00036	0.001	0.001	0.001
Lower Lim.	7.3E-05	9E-05	0.0002	8E-05	0.0002	0.00019

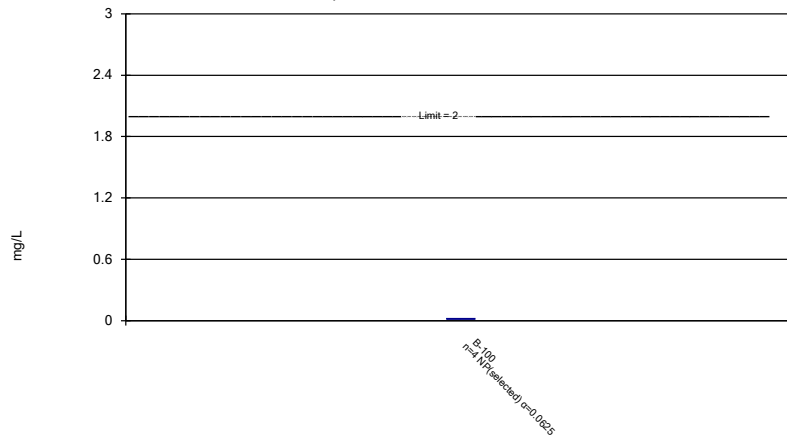
# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/8/2021 2:30 PM 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	<0.001				
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	<0.001				
11/6/2018	<0.001				
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	<0.001				
8/14/2020				<0.001	
8/17/2020		0.00016 (J)	<0.001		<0.001
9/22/2020	0.00043 (J)				
9/25/2020				<0.001	<0.001
9/28/2020		0.00023 (J)	<0.001		
3/2/2021	<0.001				
3/3/2021		0.00026 (J)			
3/4/2021				<0.001	
3/5/2021					0.0002 (J)
9/10/2021	0.0004 (J)				
9/13/2021		0.00024 (J)			<0.001
9/14/2021			<0.001		
9/16/2021				<0.001	
Mean	0.0007027	0.0002225	0.0006418	0.0008144	0.0008
Std. Dev.	0.0002443	4.349E-05	0.0004905	0.000415	0.0004
Upper Lim.	0.001	0.0003212	0.001	0.001	0.001
Lower Lim.	0.00043	0.0001238	9.9E-05	7.2E-05	0.0002

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

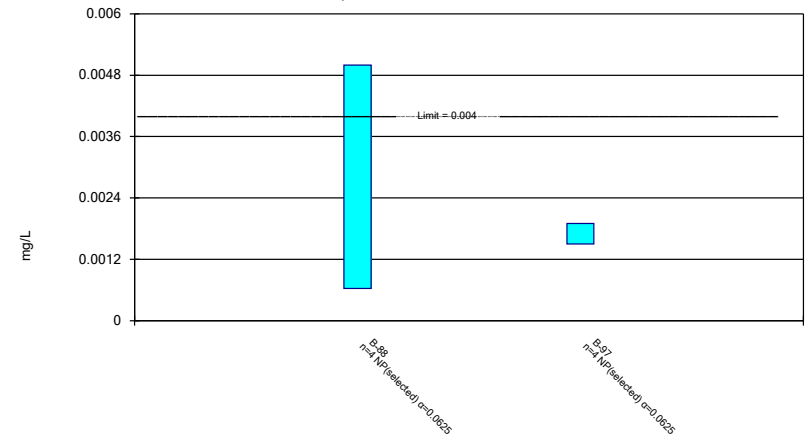


Normality testing disabled.

Constituent: Barium Analysis Run 11/8/2021 2:29 PM View: AP 234 Confidence Intervals Nonparametric Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

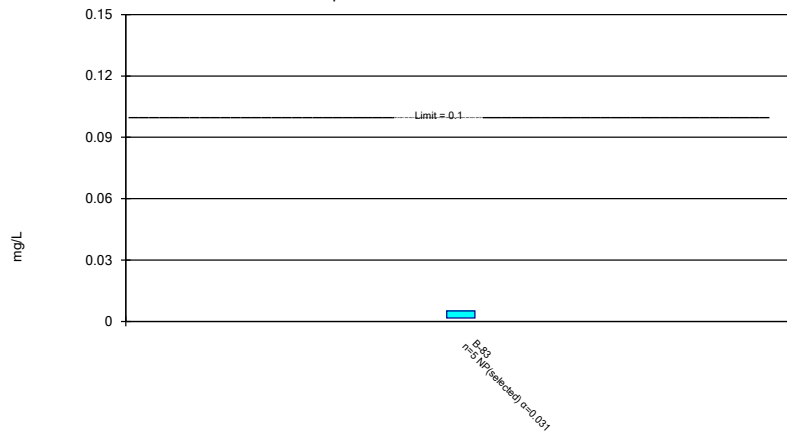


Normality testing disabled.

Constituent: Beryllium Analysis Run 11/8/2021 2:29 PM View: AP 234 Confidence Intervals Nonparametri Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

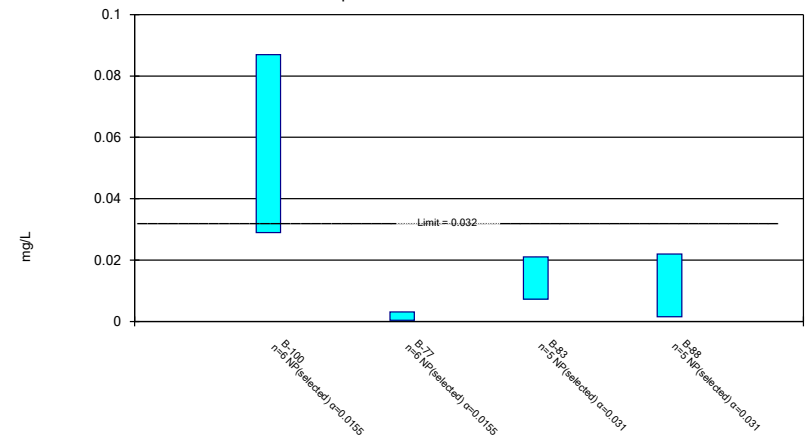


Normality testing disabled.

Constituent: Chromium Analysis Run 11/8/2021 2:29 PM View: AP 234 Confidence Intervals Nonparametr Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

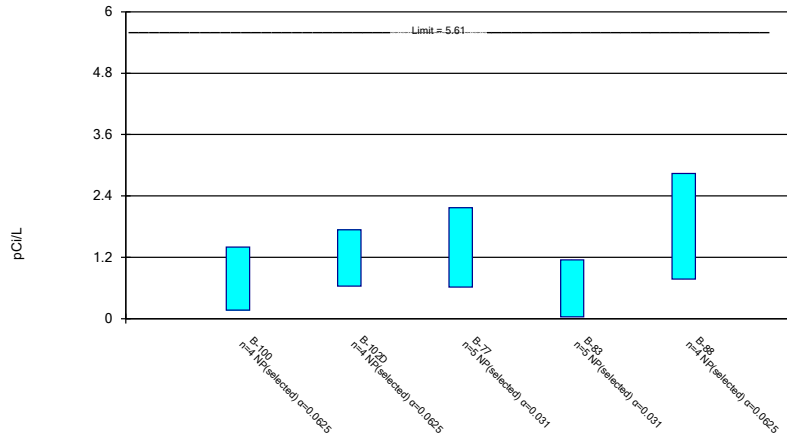
Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Cobalt Analysis Run 11/8/2021 2:29 PM View: AP 234 Confidence Intervals Nonparametric Plant McDonough Client: Southern Company Data: McDonough AP

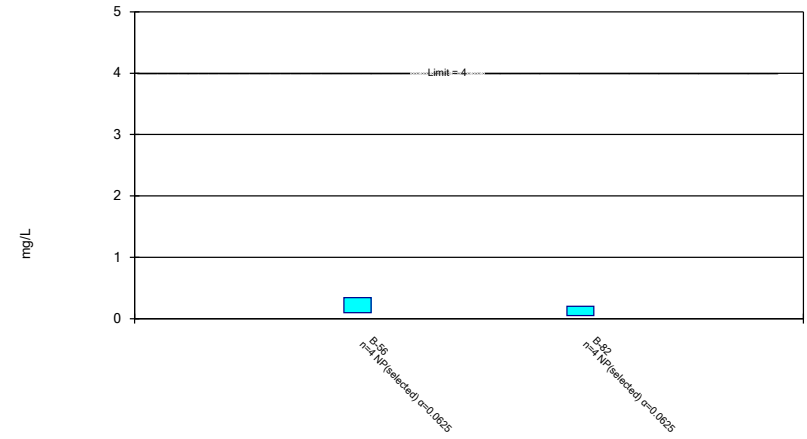
Non-Parametric Confidence Interval  
Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 2:29 PM View: AP 234 Confidence Int  
Plant McDonough Client: Southern Company Data: McDonough AP

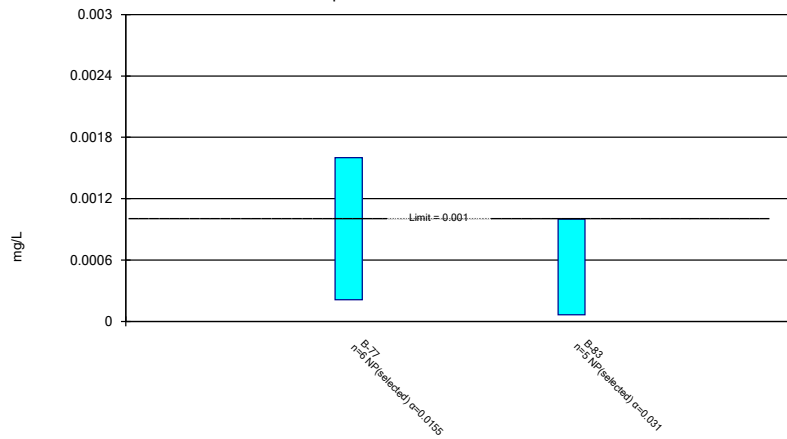
Non-Parametric Confidence Interval  
Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Fluoride, total Analysis Run 11/8/2021 2:29 PM View: AP 234 Confidence Intervals Nonpara  
Plant McDonough Client: Southern Company Data: McDonough AP

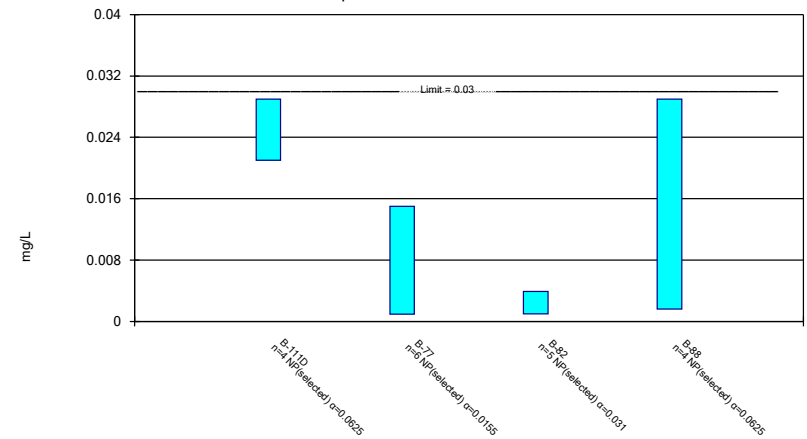
Non-Parametric Confidence Interval  
Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Lead Analysis Run 11/8/2021 2:29 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval  
Compliance Limit is not exceeded.

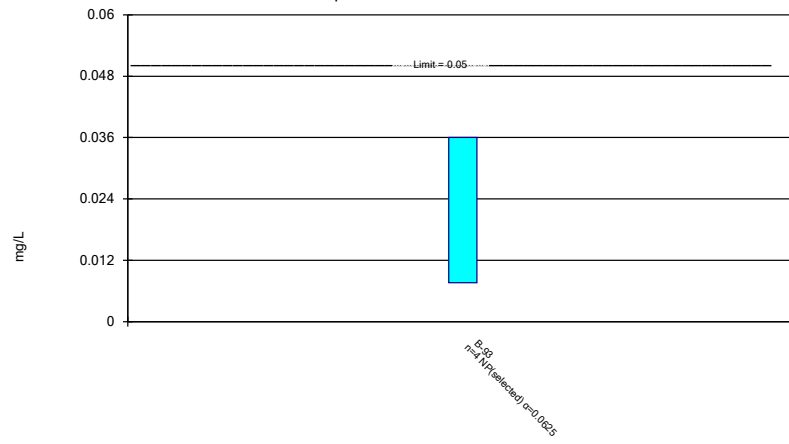


Normality testing disabled.

Constituent: Lithium Analysis Run 11/8/2021 2:29 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Selenium Analysis Run 11/8/2021 2:29 PM View: AP 234 Confidence Intervals Nonparametri  
Plant McDonough Client: Southern Company Data: McDonough AP

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-100
8/17/2020	0.015
9/25/2020	0.022
3/8/2021	0.022
9/13/2021	0.021
Mean	0.02
Std. Dev.	0.003367
Upper Lim.	0.022
Lower Lim.	0.015



# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-88	B-97
2/17/2020		<0.003
2/27/2020		0.0019 (J)
8/17/2020	0.0014 (J)	
9/25/2020	0.00063 (J)	
3/5/2021	0.005	
3/9/2021		0.0019
9/13/2021	0.001	
9/15/2021		0.0016
Mean	0.002008	0.001725
Std. Dev.	0.00202	0.0002062
Upper Lim.	0.005	0.0019
Lower Lim.	0.00063	0.0015

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-83
10/21/2019	0.0017 (J)
8/14/2020	0.005 (J)
9/25/2020	0.0051 (J)
3/4/2021	0.0049 (J)
9/16/2021	0.003 (J)
Mean	0.00394
Std. Dev.	0.001524
Upper Lim.	0.0051
Lower Lim.	0.0017

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-77	B-83	B-88
9/18/2019		0.0031 (J)		
10/21/2019			0.018	
10/24/2019		0.0021 (J)		
11/22/2019				0.018 (J)
7/23/2020	0.086			
8/3/2020	0.087			
8/13/2020		0.0011 (J)		
8/14/2020			0.021	
8/17/2020	0.077			0.0031 (J)
9/24/2020		0.0004 (J)		
9/25/2020	0.034		0.0073	0.0015 (J)
3/4/2021		0.0017 (J)	0.0099	
3/5/2021				0.022
3/8/2021	0.029			
9/13/2021	0.035			0.0018 (J)
9/14/2021		<0.005		
9/16/2021			0.011	
Mean	0.058	0.001817	0.01344	0.00928
Std. Dev.	0.02804	0.0009725	0.005791	0.009906
Upper Lim.	0.087	0.0031	0.021	0.022
Lower Lim.	0.029	0.0004	0.0073	0.0015

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L)    Analysis Run 11/8/2021 2:30 PM    View: AP 234 Confidence Intervals Nonparametric  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-100	B-102D	B-77	B-83	B-88
10/21/2019				0.792 (U)	
10/24/2019			1.87		
8/13/2020			2.17		
8/14/2020				0.95 (U)	
8/17/2020	1.4 (U)				2.47
9/24/2020			0.761 (U)		
9/25/2020	0.799 (U)			0.0359 (U)	0.925 (U)
12/17/2020		1.22 (U)			
1/11/2021		0.635 (U)			
3/4/2021		0.789 (U)	2.16	1.15 (U)	
3/5/2021					2.84
3/8/2021	0.168 (U)				
9/10/2021		1.74			
9/13/2021	0.774 (U)				0.771 (U)
9/14/2021			0.617 (U)		
9/16/2021				0.442 (U)	
Mean	0.7853	1.096	1.516	0.674	1.752
Std. Dev.	0.5031	0.4956	0.7658	0.4409	1.056
Upper Lim.	1.4	1.74	2.17	1.15	2.84
Lower Lim.	0.168	0.635	0.617	0.0359	0.771

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-56	B-82
10/21/2019		0.2 (J)
8/17/2020	0.19	<0.1
9/28/2020	0.098 (J)	<0.1
3/3/2021	0.34	
9/13/2021	0.2	
9/14/2021		0.052 (J)
Mean	0.207	0.113
Std. Dev.	0.09985	0.06226
Upper Lim.	0.34	0.2
Lower Lim.	0.098	0.052

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-77	B-83
9/18/2019	0.00032 (J)	
10/21/2019		0.00012 (J)
10/24/2019	<0.001	
8/13/2020	0.0016 (J)	
8/14/2020		0.00092 (J)
9/24/2020	0.00021 (J)	
9/25/2020		6.5E-05 (J)
3/4/2021	0.00029 (J)	0.00017 (J)
9/14/2021	<0.001	
9/16/2021		<0.001
Mean	0.0007367	0.000455
Std. Dev.	0.000554	0.0004634
Upper Lim.	0.0016	0.001
Lower Lim.	0.00021	6.5E-05

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-111D	B-77	B-82	B-88
9/18/2019		0.0047 (J)		
9/23/2019			0.0039 (J)	
10/21/2019			0.0036 (J)	
10/24/2019		0.0036 (J)		
8/13/2020		0.0018 (J)		
8/17/2020			0.0016 (J)	0.006 (J)
9/24/2020		0.00095 (J)		
9/25/2020				0.0016 (J)
9/28/2020			0.001 (J)	
12/9/2020	0.021 (J)			
1/12/2021	0.021 (J)			
3/4/2021		0.0011 (J)		
3/5/2021	0.028 (J)			0.029 (J)
9/13/2021				0.0017 (J)
9/14/2021	0.029 (J)	<0.03	0.001 (J)	
Mean	0.02475	0.004525	0.00222	0.009575
Std. Dev.	0.004349	0.005339	0.001422	0.01311
Upper Lim.	0.029	0.015	0.0039	0.029
Lower Lim.	0.021	0.00095	0.001	0.0016

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2021 2:30 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-93
8/19/2020	0.018
9/28/2020	0.036
3/9/2021	0.0099 (J)
9/15/2021	0.0076
Mean	0.01788
Std. Dev.	0.01288
Upper Lim.	0.036
Lower Lim.	0.0076



FIGURE K.

# Appendix IV Trend Tests - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 3:01 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	DGWA-70A (bg)	-0.0006733	-54	-53	Yes	15	53.33	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-47	-0.001263	-55	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-53 (bg)	-0.005485	-77	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-10	-0.02424	-58	-48	Yes	14	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-47	-0.05383	-76	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-48	-0.04534	-87	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-8	-0.01234	-55	-48	Yes	14	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-9	0.02407	66	53	Yes	15	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-47	-0.006577	-65	-53	Yes	15	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-48	-0.008187	-75	-53	Yes	15	0	n/a	n/a	0.01	NP

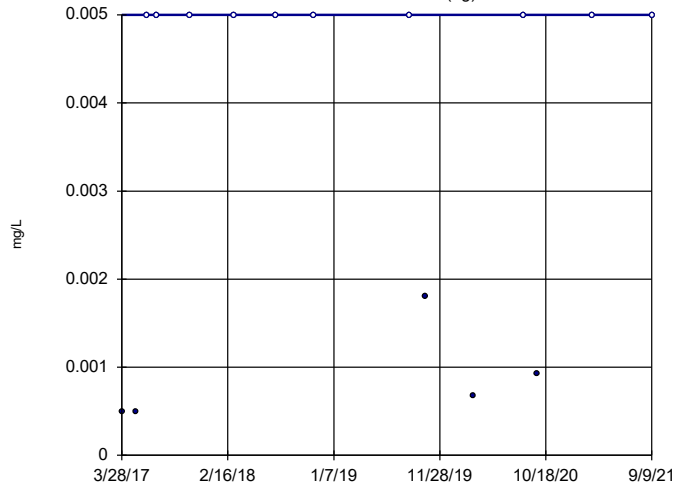
# Appendix IV Trend Tests - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/8/2021, 3:01 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	DGWA-53 (bg)	0	11	53	No	15	66.67	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-70A (bg)	0	-4	-53	No	15	93.33	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-71 (bg)	0	9	48	No	14	85.71	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWC-9	0.001503	18	53	No	15	6.667	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-53 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
<b>Beryllium (mg/L)</b>	<b>DGWA-70A (bg)</b>	<b>-0.0006733</b>	<b>-54</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>53.33</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Beryllium (mg/L)	DGWA-71 (bg)	-0.00002022	-33	-53	No	15	33.33	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-10	0.0006483	25	48	No	14	0	n/a	n/a	0.01	NP
<b>Beryllium (mg/L)</b>	<b>DGWC-47</b>	<b>-0.001263</b>	<b>-55</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Beryllium (mg/L)	DGWC-48	-0.0004177	-53	-53	No	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-5	0.0004286	25	48	No	14	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-9	0.0001134	20	53	No	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-93	0.00406	5	12	No	5	0	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-0.005485</b>	<b>-77</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	DGWA-70A (bg)	0	-1	-53	No	15	46.67	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-71 (bg)	0	17	48	No	14	64.29	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWC-10</b>	<b>-0.02424</b>	<b>-58</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	DGWC-19	-0.0006109	-25	-53	No	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-20	0.02101	20	53	No	15	0	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWC-47</b>	<b>-0.05383</b>	<b>-76</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-48</b>	<b>-0.04534</b>	<b>-87</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-8</b>	<b>-0.01234</b>	<b>-55</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-9</b>	<b>0.02407</b>	<b>66</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	B-56	0.004935	3	8	No	4	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-63	-0.004021	-5	-12	No	5	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-93	-0.003331	-6	-12	No	5	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-53 (bg)	-0.6866	-53	-53	No	15	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-70A (bg)	0.004235	0	58	No	16	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-71 (bg)	0	0	53	No	15	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	B-104D	-8.273	-4	-8	No	4	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-53 (bg)	-0.0001578	-13	-53	No	15	6.667	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-70A (bg)	0	15	53	No	15	80	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-71 (bg)	-0.0001648	-41	-48	No	14	21.43	n/a	n/a	0.01	NP
<b>Lithium (mg/L)</b>	<b>DGWC-47</b>	<b>-0.006577</b>	<b>-65</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Lithium (mg/L)</b>	<b>DGWC-48</b>	<b>-0.008187</b>	<b>-75</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Lithium (mg/L)	B-104D	-0.004109	-5	-8	No	4	0	n/a	n/a	0.01	NP
Selenium (mg/L)	DGWA-53 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Selenium (mg/L)	DGWA-70A (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Selenium (mg/L)	DGWA-71 (bg)	0	0	48	No	14	100	n/a	n/a	0.01	NP
Selenium (mg/L)	DGWC-9	0.006758	19	53	No	15	0	n/a	n/a	0.01	NP

### Sen's Slope Estimator

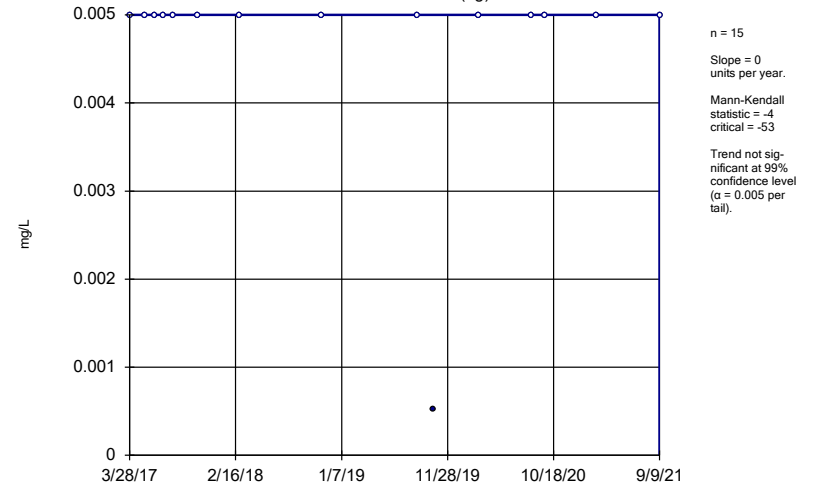
DGWA-53 (bg)



Constituent: Arsenic Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

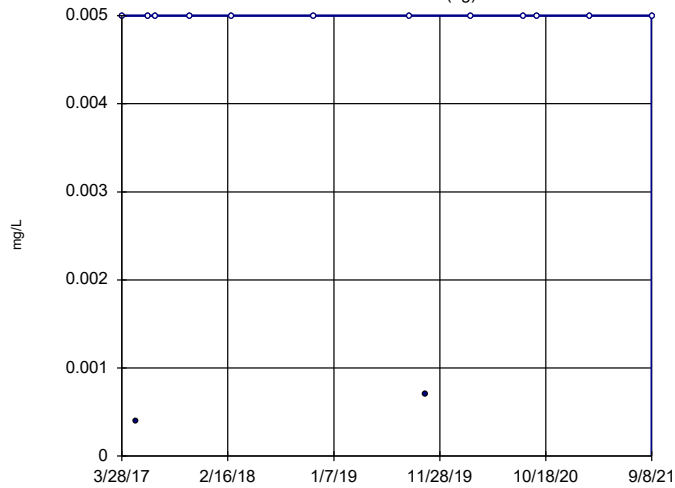
DGWA-70A (bg)



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Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

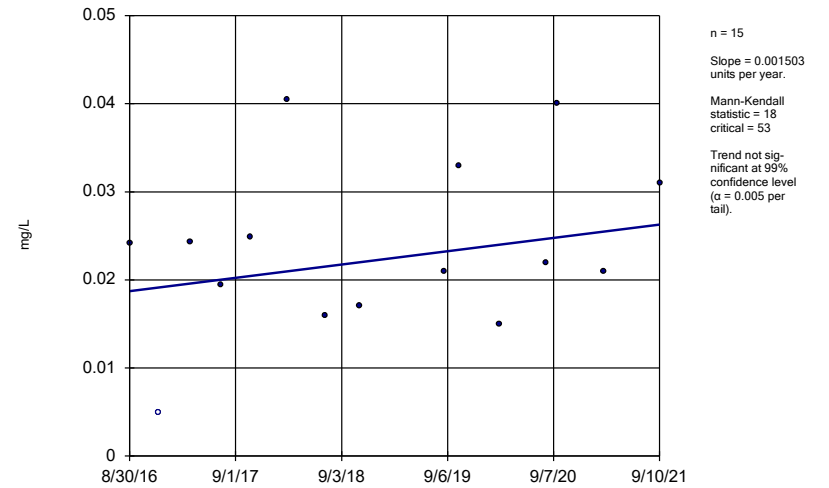
DGWA-71 (bg)



Constituent: Arsenic Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

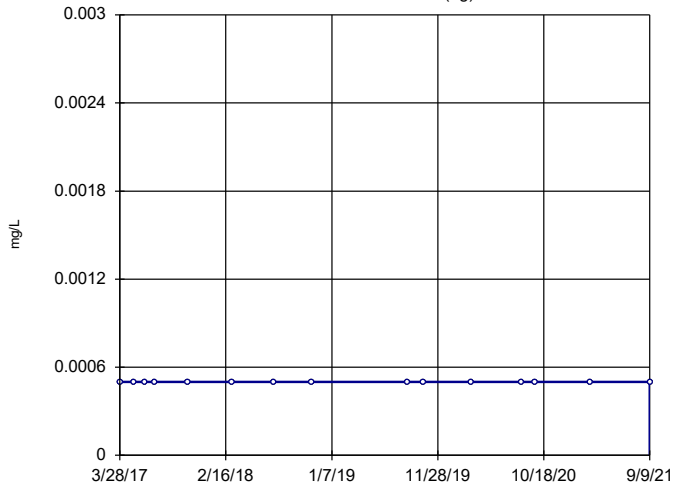
DGWC-9



Constituent: Arsenic Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-53 (bg)

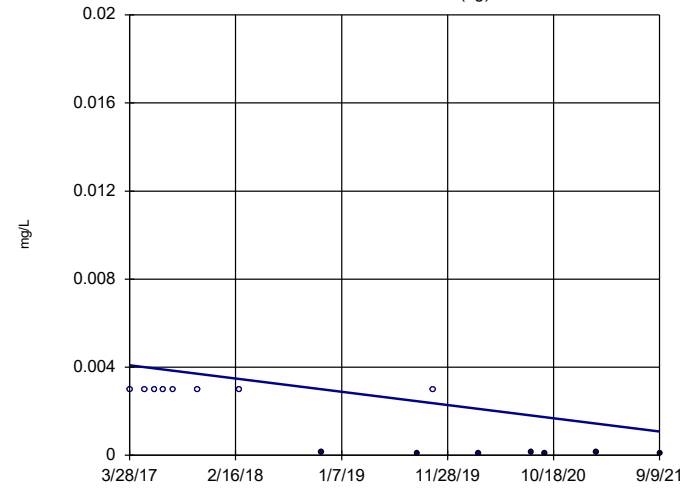


n = 15  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 53  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Beryllium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-70A (bg)

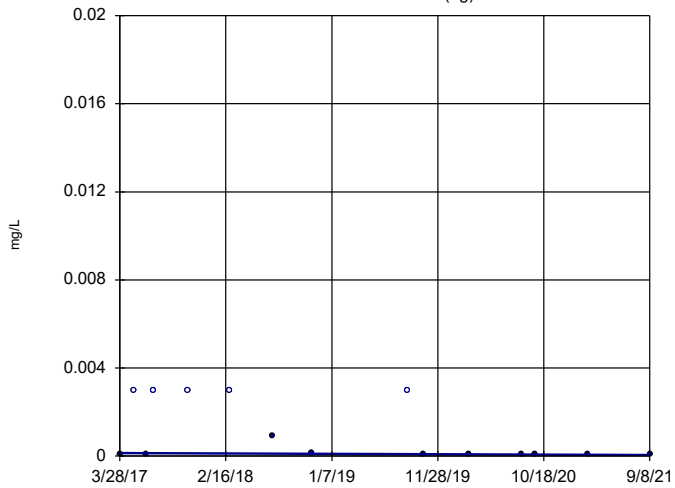


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Slope = -0.0006733  
units per year.  
Mann-Kendall  
statistic = -54  
critical = -53  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Beryllium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-71 (bg)

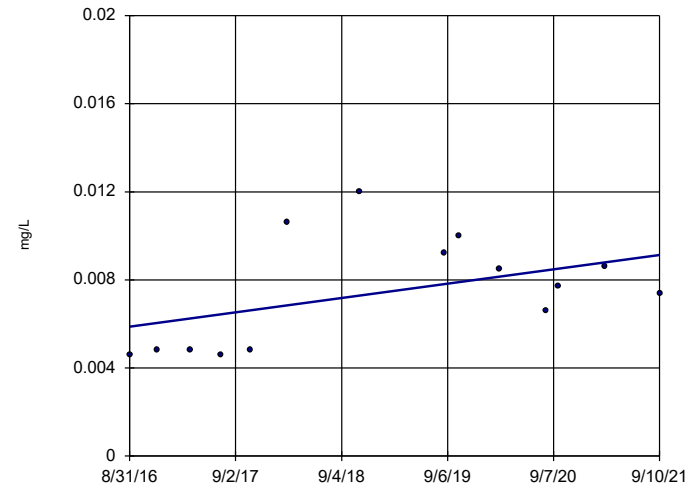


n = 15  
Slope = -0.00002022  
units per year.  
Mann-Kendall  
statistic = -33  
critical = -53  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Beryllium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-10

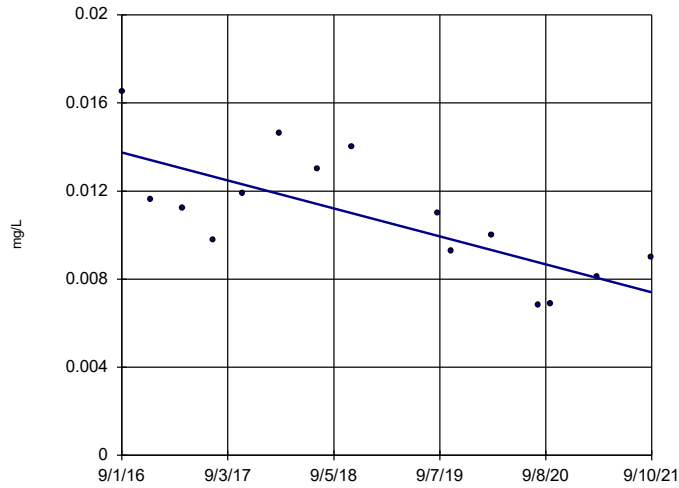


n = 14  
Slope = 0.0006483  
units per year.  
Mann-Kendall  
statistic = 25  
critical = 48  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Beryllium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

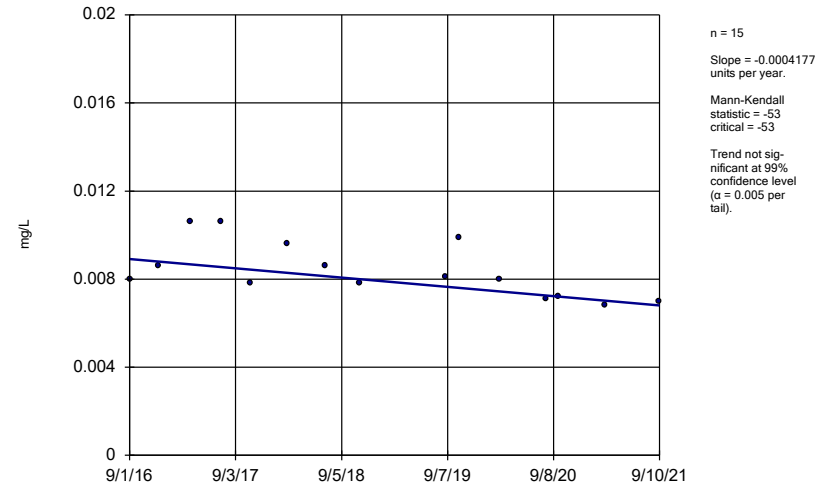
DGWC-47



Constituent: Beryllium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

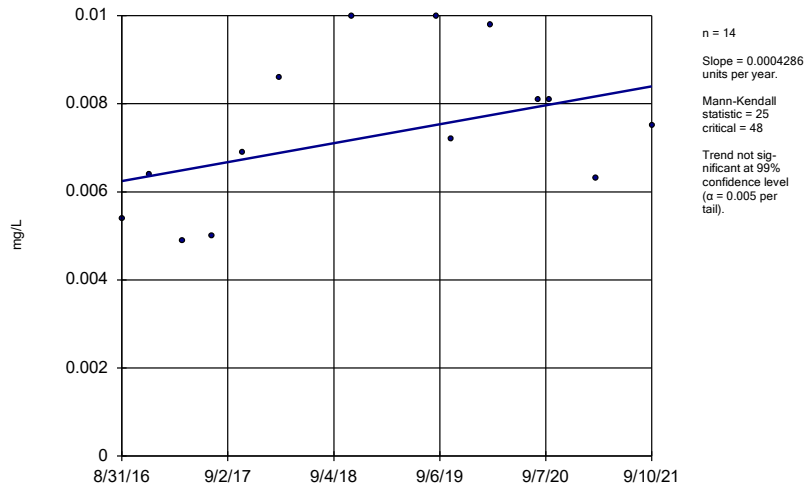
DGWC-48



Constituent: Beryllium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

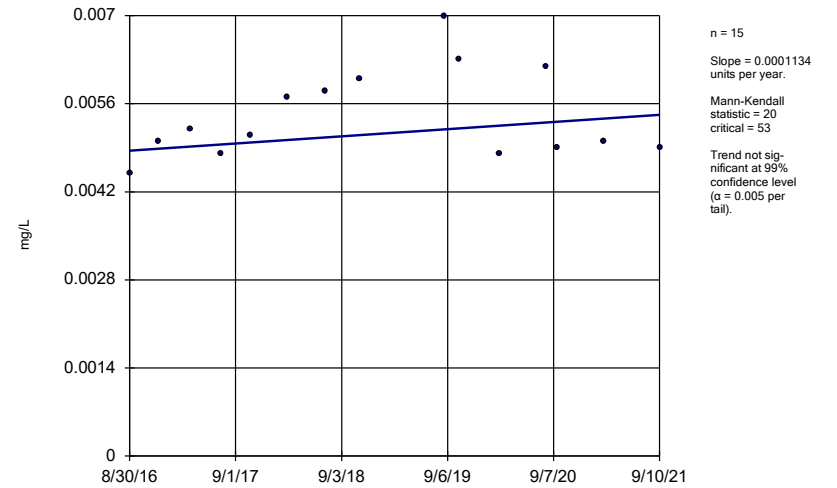
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Plant McDonough Client: Southern Company Data: McDonough AP

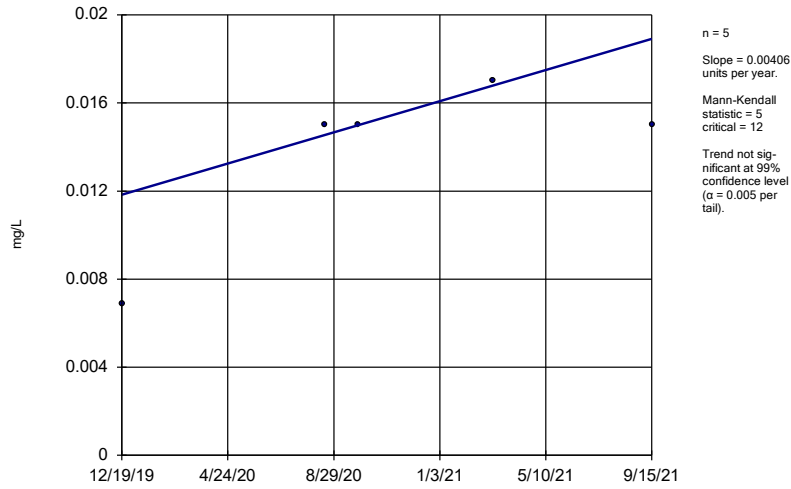
### Sen's Slope Estimator

DGWC-9



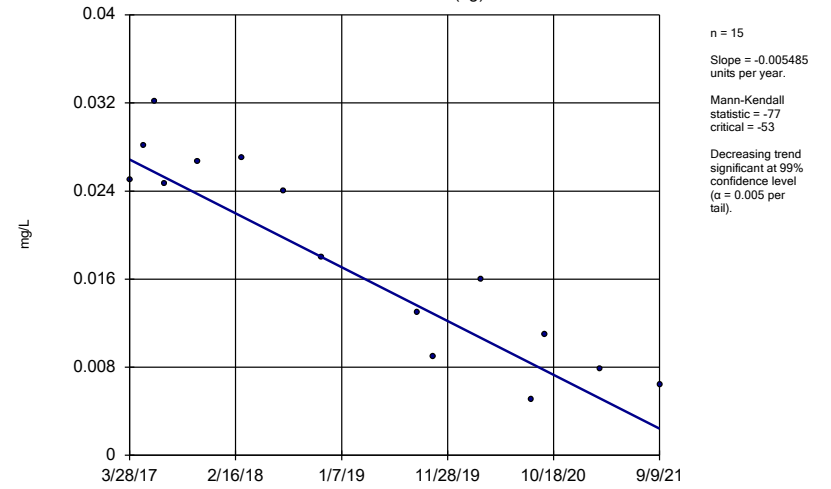
Constituent: Beryllium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
B-93



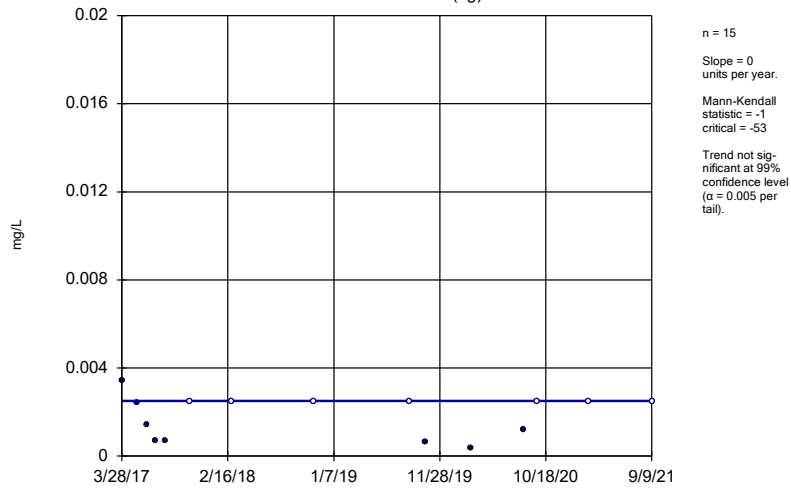
Constituent: Beryllium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-53 (bg)



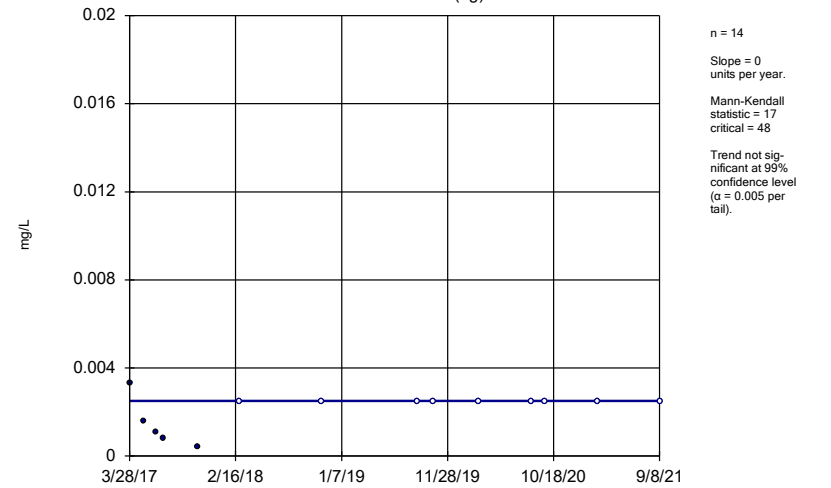
Constituent: Cobalt Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-70A (bg)



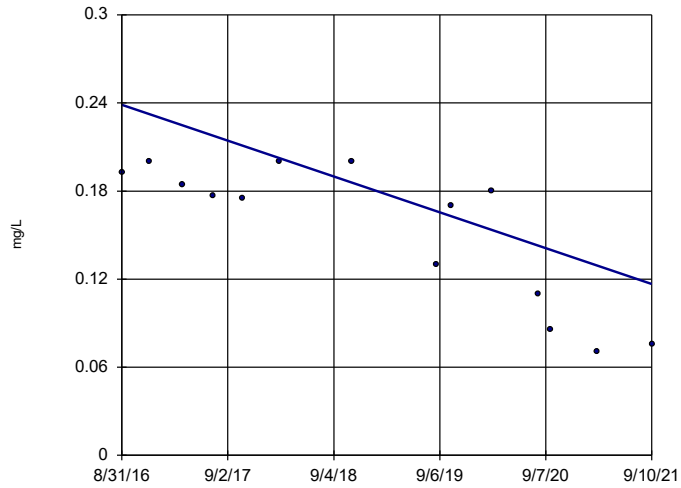
Constituent: Cobalt Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-71 (bg)



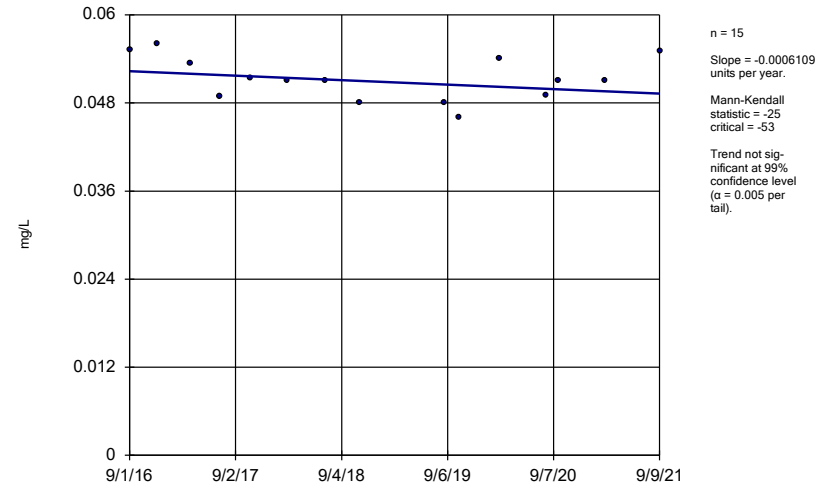
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-10



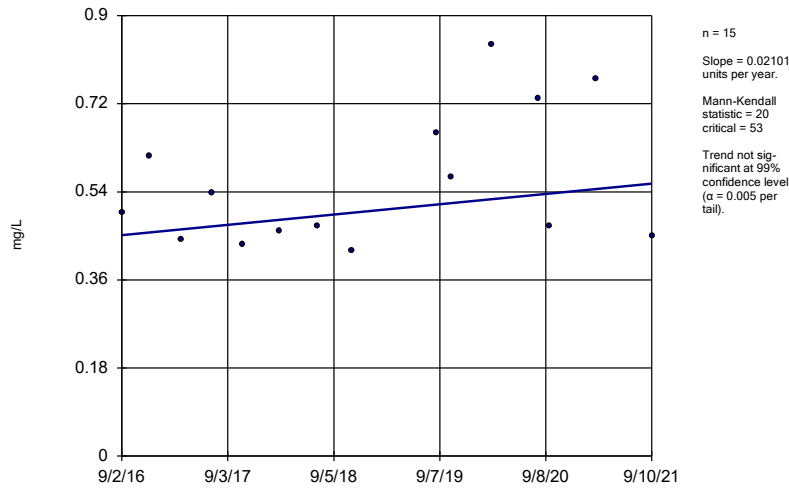
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-19



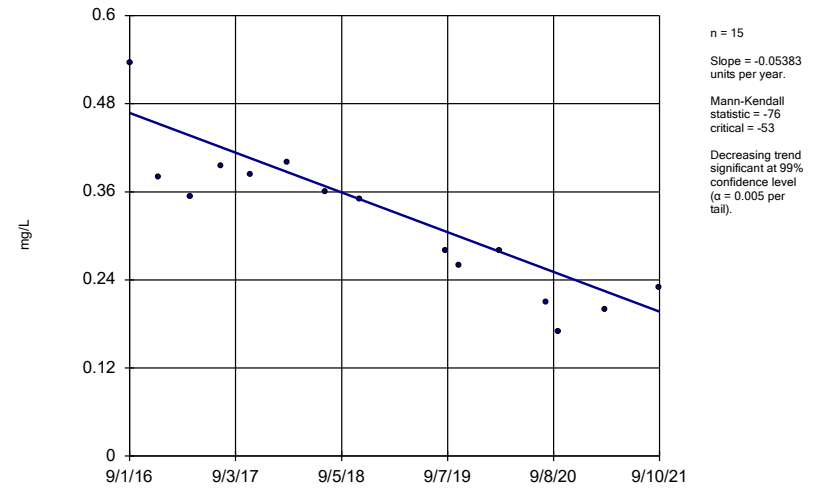
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-20



Constituent: Cobalt Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

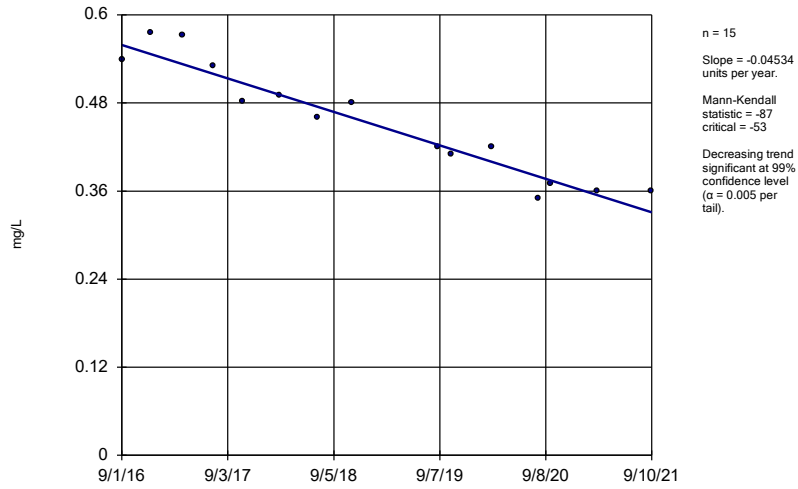
Sen's Slope Estimator  
DGWC-47



Constituent: Cobalt Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

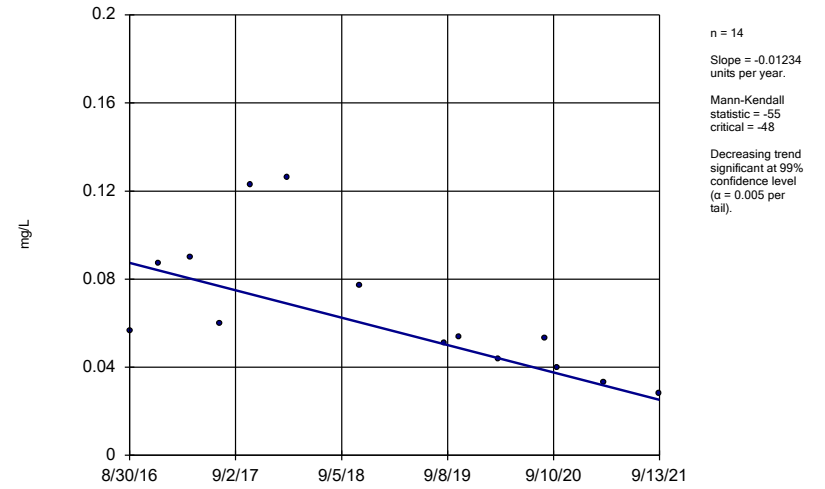


Sen's Slope Estimator  
DGWC-48



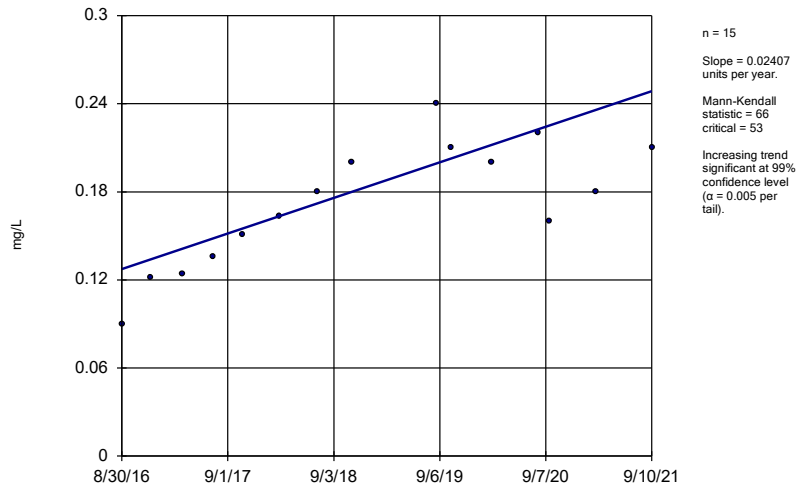
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-8



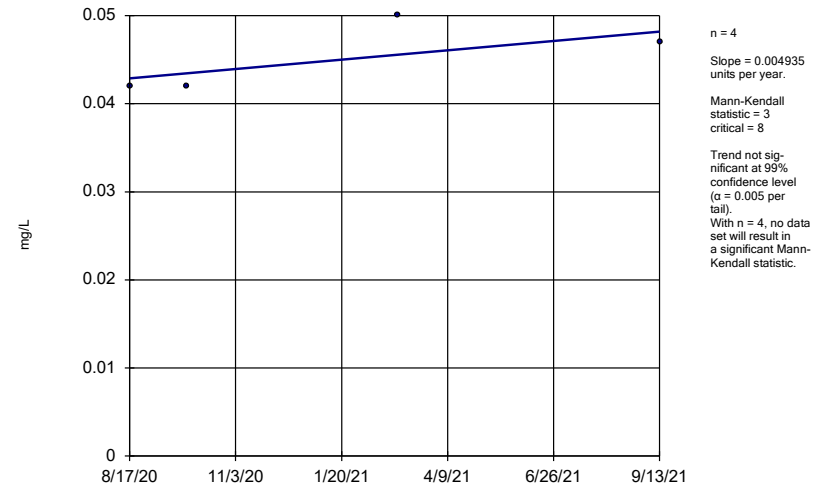
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-9



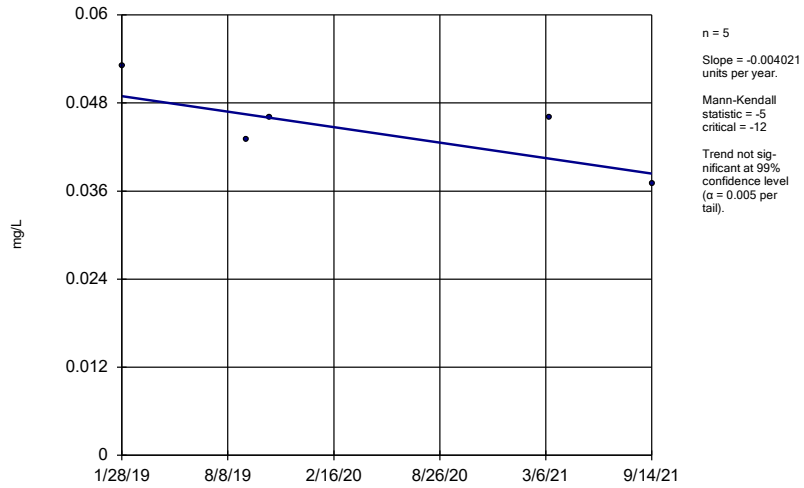
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
B-56



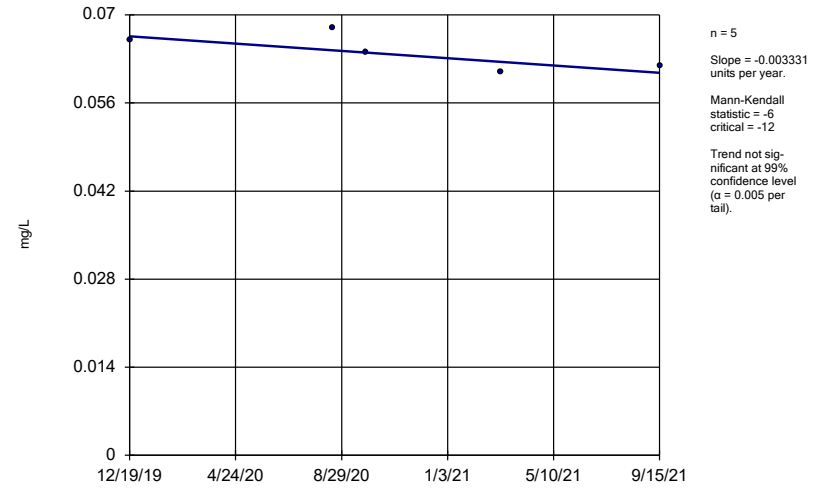
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
B-63



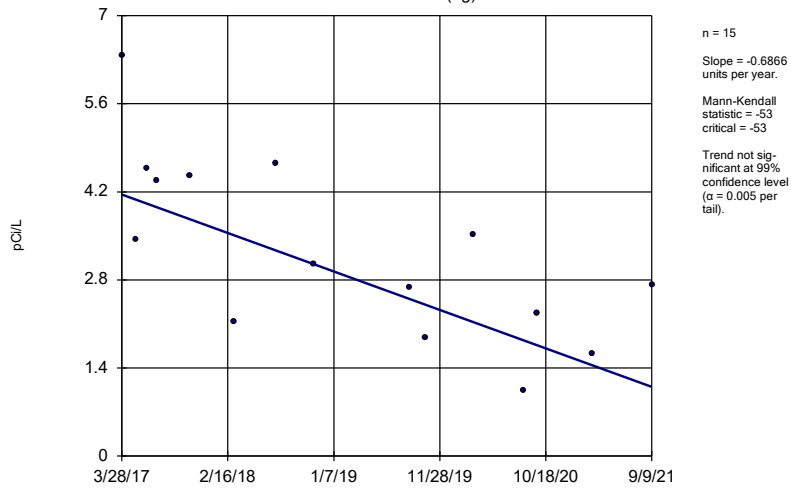
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
B-93



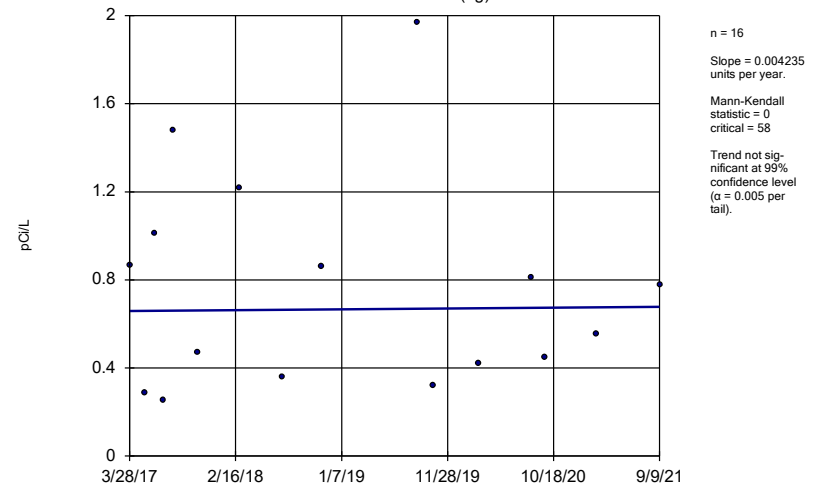
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-53 (bg)



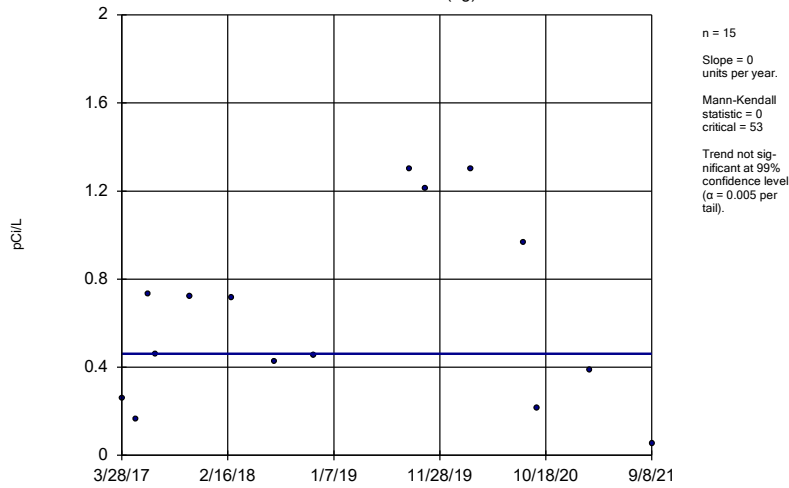
Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Tr  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-70A (bg)



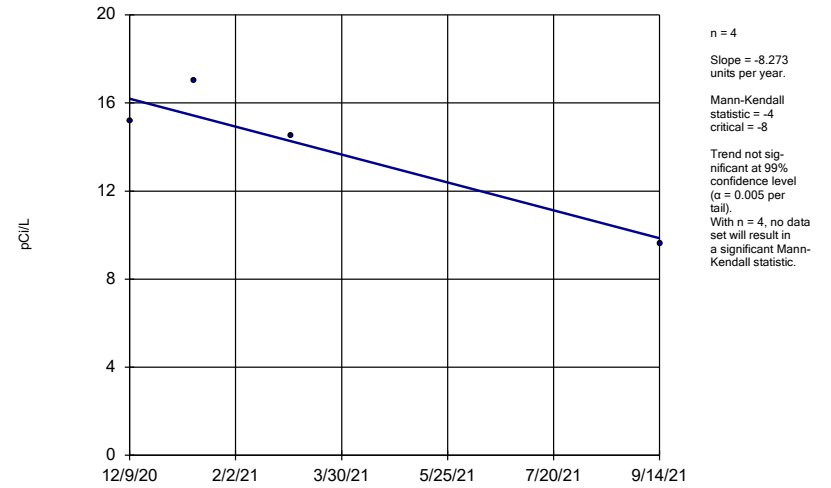
Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Tr  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-71 (bg)



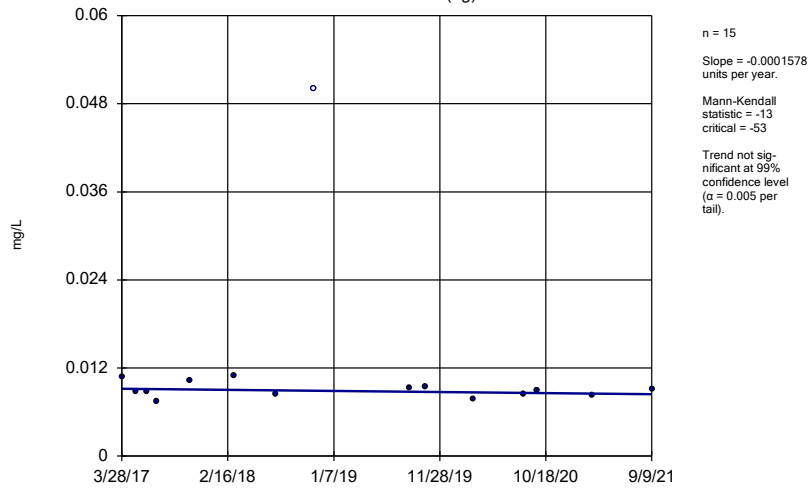
Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Tr  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
B-104D



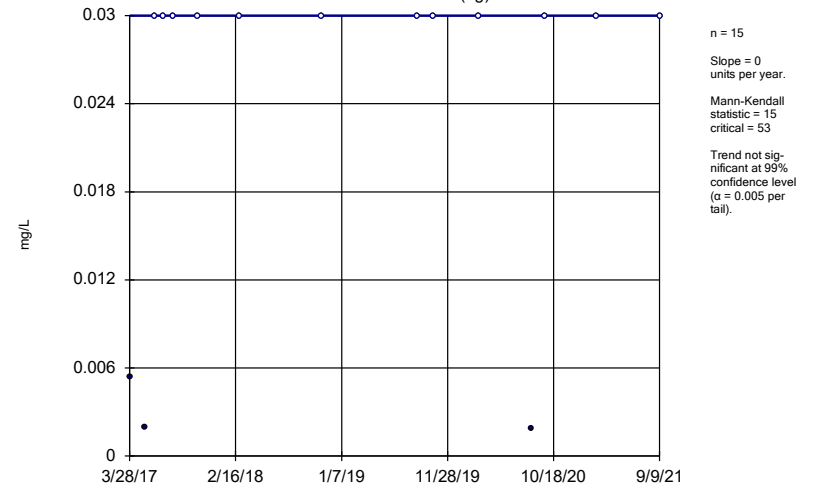
Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Tr  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-53 (bg)



Constituent: Lithium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

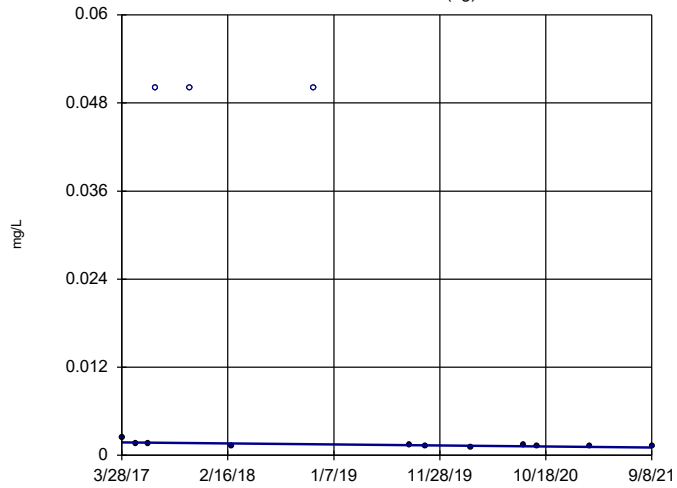
Sen's Slope Estimator  
DGWA-70A (bg)



Constituent: Lithium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-71 (bg)

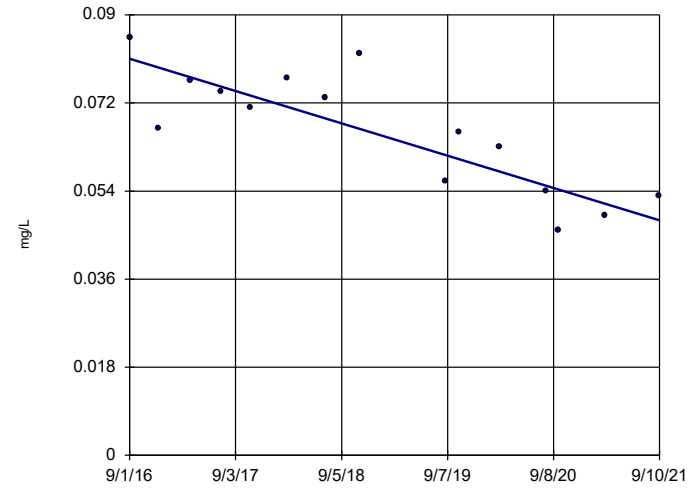


n = 14  
 Slope = -0.0001648  
 units per year.  
 Mann-Kendall  
 statistic = -41  
 critical = -48  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Lithium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-47

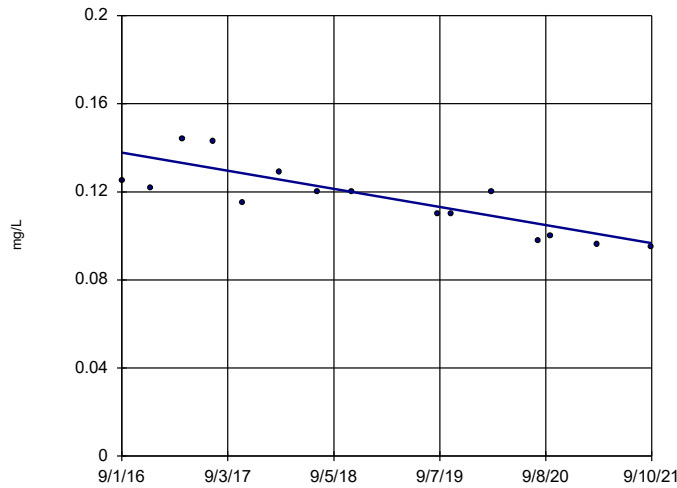


n = 15  
 Slope = -0.006577  
 units per year.  
 Mann-Kendall  
 statistic = -65  
 critical = -53  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Lithium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-48

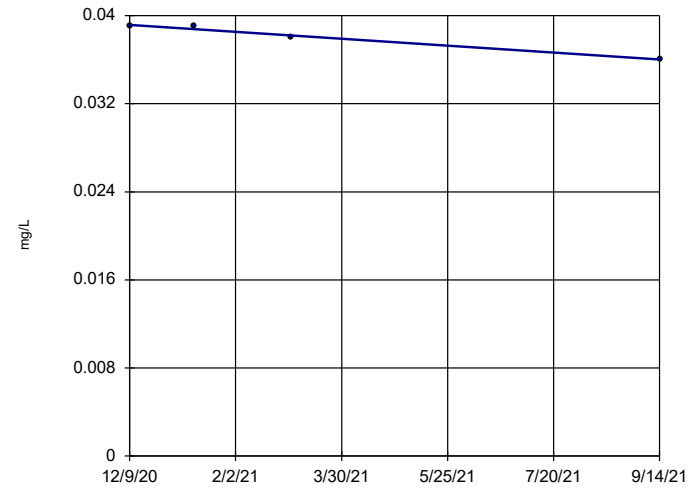


n = 15  
 Slope = -0.008187  
 units per year.  
 Mann-Kendall  
 statistic = -75  
 critical = -53  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Lithium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

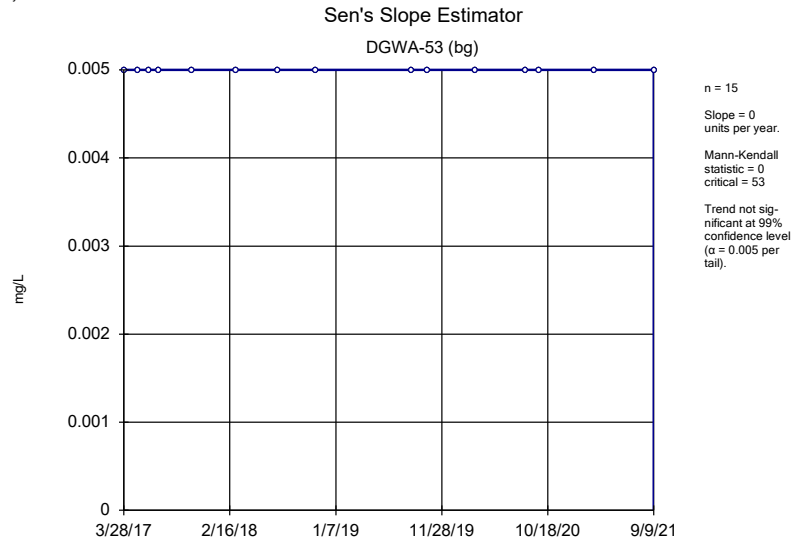
### Sen's Slope Estimator

B-104D

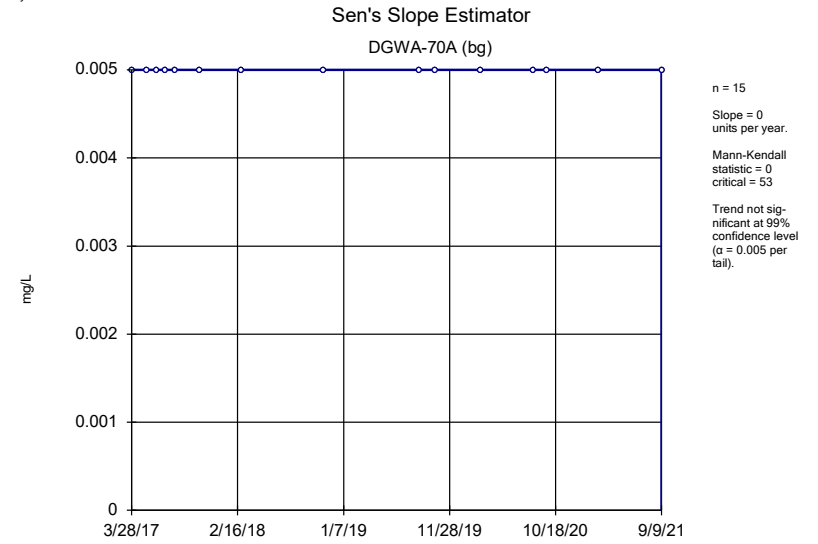


n = 4  
 Slope = -0.004109  
 units per year.  
 Mann-Kendall  
 statistic = -5  
 critical = -8  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).  
 With n = 4, no data  
 set will result in  
 a significant Mann-  
 Kendall statistic.

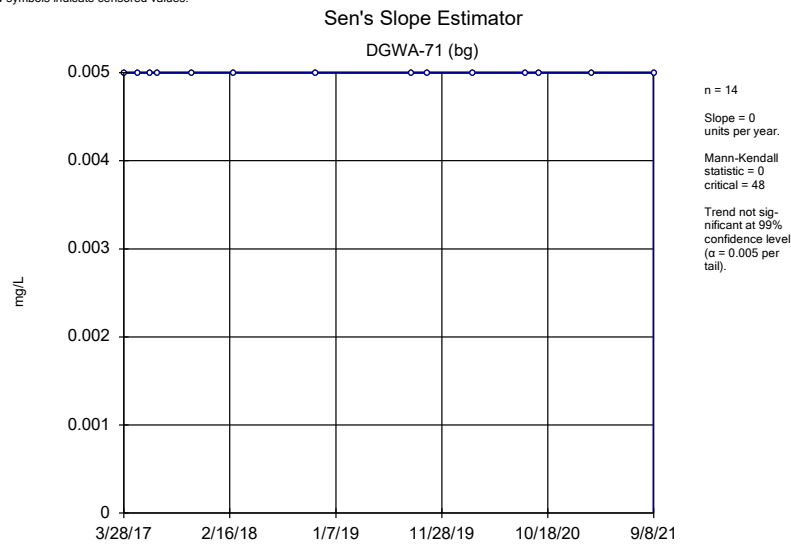
Constituent: Lithium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP



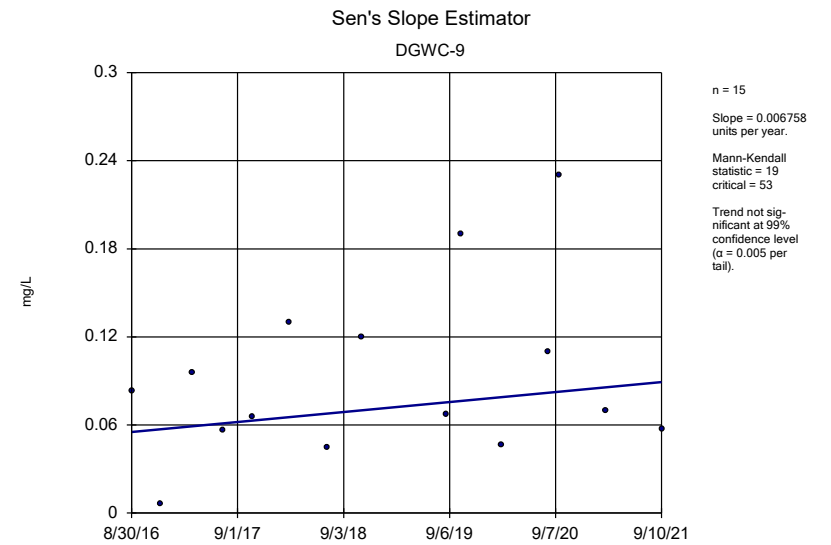
Constituent: Selenium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP



Constituent: Selenium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP



Constituent: Selenium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

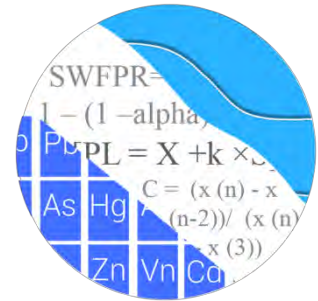


Constituent: Selenium Analysis Run 11/8/2021 3:00 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

**APPENDIX D**

**Statistical Analysis  
January 2022**

## GROUNDWATER STATS CONSULTING



July 29, 2022

Southern Company Services  
Attn: Mr. Joju Abraham  
241 Ralph McGill Blvd NE, Bin 10160  
Atlanta, Georgia 30308-3374

Re: Plant McDonough Ash Pond (AP-2,3,4)  
January 2022 Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the January 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

- **Delineation 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 delineation 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

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician to 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 delineation 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 – January 2022**

### Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through January 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 January 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 and DGWC-11
- Calcium: DGWC-4, DGWC-5, DGWC-11, and DGWC-19
- Chloride: DGWC-9, DGWC-15, and DGWC-20
- pH: DGWC-5 and DGWC-19
- Sulfate: DGWC-19
- TDS: DGWC-4, DGWC-5, DGWC-11, and DGWC-19

#### Decreasing trends

- Boron: DGWC-2, DGWC-8, DGWC-9, DGWC-10, DGWC-12, DGWC-20, DGWC-47, and DGWC-48
- Calcium: DGWC-2, DGWC-48, and DGWA-53 (upgradient)
- Chloride: DGWC-4, DGWC-12, 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, DGWC-13, 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-20, DGWC-48, and DGWA-53 (upgradient)

### **Statistical Analysis of Appendix IV Parameters – January 2022**

For Appendix IV parameters, confidence intervals for each downgradient and delineation 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 delineation 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 January 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 delineation 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, and B-93
- Cobalt: DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, B-93, and B-104D
- Combined Radium 226 + 228: B-104D and B-109D
- Lithium: DGWC-47 and DGWC-48

#### 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. 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

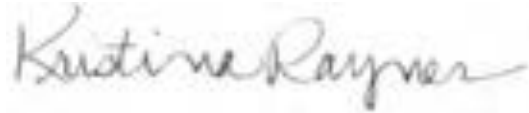
- Beryllium: DGWA-70A (upgradient) and DGWC-48
- Cobalt: DGWA-53 (upgradient), DGWC-8, DGWC-9, DGWC-10, DGWC-47, and DGWC-48
- Combined Radium 226 + 228: DGWA-53 (upgradient)
- Lithium: DGWC-47 and DGWC-48

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,



Andrew T. Collins  
Project Manager



Kristina L. Rayner  
Senior Statistician



# 100% Non-Detects: Appendix IV Downgradient & Delineation

Analysis Run 4/12/2022 3:07 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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**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

**Fluoride, total (mg/L)**

B-100, B-107D, B-108D, B-120D, B-88

**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-102D, 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-92, B-93, B-97, B-98

# Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 3/14/2022, 2:27 PM

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	1/26/2022	0.4	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	1/25/2022	1.7	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	1/25/2022	0.7	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	1/25/2022	0.69	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	1/24/2022	1.4	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	1/24/2022	0.9	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	1/25/2022	2.5	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	1/20/2022	0.5	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	1/21/2022	3.6	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	1/20/2022	6.9	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	1/20/2022	4.2	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	1/20/2022	4.5	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	1/24/2022	5.1	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	1/20/2022	0.83	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	1/21/2022	0.17	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	1/24/2022	0.61	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	1/24/2022	4.4	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	1/25/2022	0.98	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	1/26/2022	0.69	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	1/26/2022	76.8	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	1/25/2022	70.2	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-13	40.3	n/a	1/25/2022	43.2	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	1/25/2022	101	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-2	40.3	n/a	1/20/2022	44.6	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	1/21/2022	104	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	1/20/2022	83.7	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	1/20/2022	67.3	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	1/20/2022	82.7	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	1/24/2022	299	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	1/24/2022	61.2	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	1/24/2022	112	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	1/26/2022	48.4	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-10	5.9	n/a	1/26/2022	9	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-11	5.9	n/a	1/25/2022	14.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-12	5.9	n/a	1/25/2022	8.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-13	5.9	n/a	1/25/2022	14.3	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-15	5.9	n/a	1/24/2022	21.5	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-17	5.9	n/a	1/24/2022	19.2	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-19	5.9	n/a	1/25/2022	23.7	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-20	5.9	n/a	1/21/2022	27	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-21	5.9	n/a	1/20/2022	18.6	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-22	5.9	n/a	1/20/2022	18.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-23	5.9	n/a	1/20/2022	12	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-4	5.9	n/a	1/24/2022	12.5	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-42	5.9	n/a	1/20/2022	18.2	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-48	5.9	n/a	1/24/2022	11.3	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-5	5.9	n/a	1/24/2022	9.9	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-8	5.9	n/a	1/25/2022	9.3	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-9	5.9	n/a	1/26/2022	9.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-10	0.42	n/a	1/26/2022	1.8	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-20	0.42	n/a	1/21/2022	1.3	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-47	0.42	n/a	1/21/2022	0.64	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-48	0.42	n/a	1/24/2022	0.59	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-9	0.42	n/a	1/26/2022	1.2	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
pH, Field (SU)	DGWC-10	6.648	5.14	1/26/2022	4.9	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-13	6.648	5.14	1/25/2022	4.68	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-19	6.648	5.14	1/25/2022	4.79	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-20	6.648	5.14	1/21/2022	4.47	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-47	6.648	5.14	1/21/2022	3.72	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-48	6.648	5.14	1/24/2022	4.03	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-5	6.648	5.14	1/24/2022	4.79	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-9	6.648	5.14	1/26/2022	3.68	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2

# Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 3/14/2022, 2:27 PM

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-10	32.59	n/a	1/26/2022	241	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-11	32.59	n/a	1/25/2022	250	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-12	32.59	n/a	1/25/2022	111	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-13	32.59	n/a	1/25/2022	116	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-14	32.59	n/a	1/25/2022	44.4	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-15	32.59	n/a	1/24/2022	127	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-17	32.59	n/a	1/24/2022	225	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-19	32.59	n/a	1/25/2022	288	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-2	32.59	n/a	1/20/2022	101	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-20	32.59	n/a	1/21/2022	406	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	32.59	n/a	1/20/2022	223	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	32.59	n/a	1/20/2022	221	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	32.59	n/a	1/20/2022	211	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	32.59	n/a	1/24/2022	816	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	32.59	n/a	1/20/2022	281	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	32.59	n/a	1/21/2022	135	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	32.59	n/a	1/24/2022	265	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	32.59	n/a	1/24/2022	434	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	32.59	n/a	1/25/2022	134	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	32.59	n/a	1/26/2022	245	Yes	46	2.545	1.423	13.04	None		sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	292	n/a	1/26/2022	425	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	292	n/a	1/25/2022	465	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	292	n/a	1/24/2022	294	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	292	n/a	1/24/2022	426	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	292	n/a	1/25/2022	694	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	292	n/a	1/21/2022	702	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	292	n/a	1/20/2022	451	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	292	n/a	1/20/2022	434	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	292	n/a	1/20/2022	453	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	292	n/a	1/24/2022	1520	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	292	n/a	1/20/2022	504	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	292	n/a	1/24/2022	500	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	292	n/a	1/24/2022	810	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	292	n/a	1/26/2022	409	Yes	45	4.565	0.9289	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 3/14/2022, 2:27 PM

Constituent	Well	Upper Lim.	Lower Lim	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	DGWC-10	0.13	n/a	1/26/2022	0.4	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	1/25/2022	1.7	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	1/25/2022	0.7	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	1/25/2022	0.69	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-14	0.13	n/a	1/25/2022	0.097	No	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	1/24/2022	1.4	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	1/24/2022	0.9	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	1/25/2022	2.5	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	1/20/2022	0.5	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	1/21/2022	3.6	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	1/20/2022	6.9	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	1/20/2022	4.2	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	1/20/2022	4.5	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	1/24/2022	5.1	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	1/20/2022	0.83	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	1/21/2022	0.17	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	1/24/2022	0.61	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	1/24/2022	4.4	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	1/25/2022	0.98	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	1/26/2022	0.69	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	1/26/2022	76.8	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	1/25/2022	70.2	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-12	40.3	n/a	1/25/2022	28.5	No	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-13	40.3	n/a	1/25/2022	43.2	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-14	40.3	n/a	1/25/2022	12.4	No	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-15	40.3	n/a	1/24/2022	33.2	No	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-17	40.3	n/a	1/24/2022	15.6	No	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	1/25/2022	101	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-2	40.3	n/a	1/20/2022	44.6	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	1/21/2022	104	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	1/20/2022	83.7	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	1/20/2022	67.3	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	1/20/2022	82.7	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	1/24/2022	299	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-42	40.3	n/a	1/20/2022	38.1	No	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-47	40.3	n/a	1/21/2022	31	No	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	1/24/2022	61.2	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	1/24/2022	112	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-8	40.3	n/a	1/25/2022	36.8	No	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	1/26/2022	48.4	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-10	5.9	n/a	1/26/2022	9	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-11	5.9	n/a	1/25/2022	14.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-12	5.9	n/a	1/25/2022	8.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-13	5.9	n/a	1/25/2022	14.3	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-14	5.9	n/a	1/25/2022	3.7	No	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-15	5.9	n/a	1/24/2022	21.5	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-17	5.9	n/a	1/24/2022	19.2	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-19	5.9	n/a	1/25/2022	23.7	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-2	5.9	n/a	1/20/2022	2	No	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-20	5.9	n/a	1/21/2022	27	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-21	5.9	n/a	1/20/2022	18.6	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-22	5.9	n/a	1/20/2022	18.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-23	5.9	n/a	1/20/2022	12	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-4	5.9	n/a	1/24/2022	12.5	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-42	5.9	n/a	1/20/2022	18.2	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-47	5.9	n/a	1/21/2022	3.1	No	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-48	5.9	n/a	1/24/2022	11.3	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-5	5.9	n/a	1/24/2022	9.9	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-8	5.9	n/a	1/25/2022	9.3	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-9	5.9	n/a	1/26/2022	9.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-10	0.42	n/a	1/26/2022	1.8	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-11	0.42	n/a	1/25/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2

# Interwell Prediction Limits - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 3/14/2022, 2:27 PM

Constituent	Well	Upper Lim.	Lower LimDate	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method	
Fluoride, total (mg/L)	DGWC-12	0.42	n/a	1/25/2022	0.093J	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-13	0.42	n/a	1/25/2022	0.063J	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-14	0.42	n/a	1/25/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-15	0.42	n/a	1/24/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-17	0.42	n/a	1/24/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-19	0.42	n/a	1/25/2022	0.16	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-2	0.42	n/a	1/20/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>DGWC-20</b>	<b>0.42</b>	<b>n/a</b>	<b>1/21/2022</b>	<b>1.3</b>	<b>Yes</b>	<b>51</b>	<b>n/a</b>	<b>n/a</b>	<b>52.94</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0006883</b>	<b>NP Inter (NDs) 1 of 2</b>
Fluoride, total (mg/L)	DGWC-21	0.42	n/a	1/20/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-22	0.42	n/a	1/20/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-23	0.42	n/a	1/20/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-4	0.42	n/a	1/24/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-42	0.42	n/a	1/20/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>DGWC-47</b>	<b>0.42</b>	<b>n/a</b>	<b>1/21/2022</b>	<b>0.64</b>	<b>Yes</b>	<b>51</b>	<b>n/a</b>	<b>n/a</b>	<b>52.94</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0006883</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Fluoride, total (mg/L)</b>	<b>DGWC-48</b>	<b>0.42</b>	<b>n/a</b>	<b>1/24/2022</b>	<b>0.59</b>	<b>Yes</b>	<b>51</b>	<b>n/a</b>	<b>n/a</b>	<b>52.94</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0006883</b>	<b>NP Inter (NDs) 1 of 2</b>
Fluoride, total (mg/L)	DGWC-5	0.42	n/a	1/24/2022	0.19	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-8	0.42	n/a	1/25/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>DGWC-9</b>	<b>0.42</b>	<b>n/a</b>	<b>1/26/2022</b>	<b>1.2</b>	<b>Yes</b>	<b>51</b>	<b>n/a</b>	<b>n/a</b>	<b>52.94</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0006883</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-10</b>	<b>6.648</b>	<b>5.14</b>	<b>1/26/2022</b>	<b>4.9</b>	<b>Yes</b>	<b>53</b>	<b>5.894</b>	<b>0.3426</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
pH, Field (SU)	DGWC-11	6.648	5.14	1/25/2022	5.54	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-12	6.648	5.14	1/25/2022	5.96	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
<b>pH, Field (SU)</b>	<b>DGWC-13</b>	<b>6.648</b>	<b>5.14</b>	<b>1/25/2022</b>	<b>4.68</b>	<b>Yes</b>	<b>53</b>	<b>5.894</b>	<b>0.3426</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
pH, Field (SU)	DGWC-14	6.648	5.14	1/25/2022	5.69	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-15	6.648	5.14	1/24/2022	6.06	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-17	6.648	5.14	1/24/2022	5.15	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
<b>pH, Field (SU)</b>	<b>DGWC-19</b>	<b>6.648</b>	<b>5.14</b>	<b>1/25/2022</b>	<b>4.79</b>	<b>Yes</b>	<b>53</b>	<b>5.894</b>	<b>0.3426</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
pH, Field (SU)	DGWC-2	6.648	5.14	1/20/2022	5.93	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
<b>pH, Field (SU)</b>	<b>DGWC-20</b>	<b>6.648</b>	<b>5.14</b>	<b>1/21/2022</b>	<b>4.47</b>	<b>Yes</b>	<b>53</b>	<b>5.894</b>	<b>0.3426</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
pH, Field (SU)	DGWC-21	6.648	5.14	1/20/2022	5.73	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-22	6.648	5.14	1/20/2022	5.72	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-23	6.648	5.14	1/20/2022	5.95	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-4	6.648	5.14	1/24/2022	5.79	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-42	6.648	5.14	1/20/2022	5.27	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
<b>pH, Field (SU)</b>	<b>DGWC-47</b>	<b>6.648</b>	<b>5.14</b>	<b>1/21/2022</b>	<b>3.72</b>	<b>Yes</b>	<b>53</b>	<b>5.894</b>	<b>0.3426</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-48</b>	<b>6.648</b>	<b>5.14</b>	<b>1/24/2022</b>	<b>4.03</b>	<b>Yes</b>	<b>53</b>	<b>5.894</b>	<b>0.3426</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-5</b>	<b>6.648</b>	<b>5.14</b>	<b>1/24/2022</b>	<b>4.79</b>	<b>Yes</b>	<b>53</b>	<b>5.894</b>	<b>0.3426</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
pH, Field (SU)	DGWC-8	6.648	5.14	1/25/2022	5.16	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
<b>pH, Field (SU)</b>	<b>DGWC-9</b>	<b>6.648</b>	<b>5.14</b>	<b>1/26/2022</b>	<b>3.68</b>	<b>Yes</b>	<b>53</b>	<b>5.894</b>	<b>0.3426</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
Sulfate as SO4 (mg/L)	DGWC-10	32.59	n/a	1/26/2022	241	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-11	32.59	n/a	1/25/2022	250	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-12	32.59	n/a	1/25/2022	111	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-13	32.59	n/a	1/25/2022	116	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-14	32.59	n/a	1/25/2022	44.4	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-15	32.59	n/a	1/24/2022	127	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-17	32.59	n/a	1/24/2022	225	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-19	32.59	n/a	1/25/2022	288	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-2	32.59	n/a	1/20/2022	101	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-20	32.59	n/a	1/21/2022	406	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	32.59	n/a	1/20/2022	223	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	32.59	n/a	1/20/2022	221	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	32.59	n/a	1/20/2022	211	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	32.59	n/a	1/24/2022	816	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	32.59	n/a	1/20/2022	281	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	32.59	n/a	1/21/2022	135	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	32.59	n/a	1/24/2022	265	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	32.59	n/a	1/24/2022	434	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	32.59	n/a	1/25/2022	134	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	32.59	n/a	1/26/2022	245	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-10</b>	<b>292</b>	<b>n/a</b>	<b>1/26/2022</b>	<b>425</b>	<b>Yes</b>	<b>45</b>	<b>4.565</b>	<b>0.9289</b>	<b>0</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-11</b>	<b>292</b>	<b>n/a</b>	<b>1/25/2022</b>	<b>465</b>	<b>Yes</b>	<b>45</b>	<b>4.565</b>	<b>0.9289</b>	<b>0</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	292	n/a	1/25/2022	258	No	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-13	292	n/a	1/25/2022	256	No	45	4.565	0.9289	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 3/14/2022, 2:27 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N Bg	Mean	Std. Dev.	%NDs	ND Adj.	Transform Alpha	Method	
Total Dissolved Solids [TDS] (mg/L)	DGWC-14	292	n/a	1/25/2022	120	No	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-15</b>	<b>292</b>	<b>n/a</b>	<b>1/24/2022</b>	<b>294</b>	<b>Yes</b>	<b>45</b>	<b>4.565</b>	<b>0.9289</b>	<b>0</b>	<b>None</b>		<b>x^(1/3)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	292	n/a	1/24/2022	426	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-19</b>	<b>292</b>	<b>n/a</b>	<b>1/25/2022</b>	<b>694</b>	<b>Yes</b>	<b>45</b>	<b>4.565</b>	<b>0.9289</b>	<b>0</b>	<b>None</b>		<b>x^(1/3)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-2	292	n/a	1/20/2022	238	No	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-20</b>	<b>292</b>	<b>n/a</b>	<b>1/21/2022</b>	<b>702</b>	<b>Yes</b>	<b>45</b>	<b>4.565</b>	<b>0.9289</b>	<b>0</b>	<b>None</b>		<b>x^(1/3)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	292	n/a	1/20/2022	451	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-22</b>	<b>292</b>	<b>n/a</b>	<b>1/20/2022</b>	<b>434</b>	<b>Yes</b>	<b>45</b>	<b>4.565</b>	<b>0.9289</b>	<b>0</b>	<b>None</b>		<b>x^(1/3)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	292	n/a	1/20/2022	453	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-4</b>	<b>292</b>	<b>n/a</b>	<b>1/24/2022</b>	<b>1520</b>	<b>Yes</b>	<b>45</b>	<b>4.565</b>	<b>0.9289</b>	<b>0</b>	<b>None</b>		<b>x^(1/3)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-42</b>	<b>292</b>	<b>n/a</b>	<b>1/20/2022</b>	<b>504</b>	<b>Yes</b>	<b>45</b>	<b>4.565</b>	<b>0.9289</b>	<b>0</b>	<b>None</b>		<b>x^(1/3)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-47	292	n/a	1/21/2022	289	No	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-48</b>	<b>292</b>	<b>n/a</b>	<b>1/24/2022</b>	<b>500</b>	<b>Yes</b>	<b>45</b>	<b>4.565</b>	<b>0.9289</b>	<b>0</b>	<b>None</b>		<b>x^(1/3)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-5</b>	<b>292</b>	<b>n/a</b>	<b>1/24/2022</b>	<b>810</b>	<b>Yes</b>	<b>45</b>	<b>4.565</b>	<b>0.9289</b>	<b>0</b>	<b>None</b>		<b>x^(1/3)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	292	n/a	1/25/2022	281	No	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-9</b>	<b>292</b>	<b>n/a</b>	<b>1/26/2022</b>	<b>409</b>	<b>Yes</b>	<b>45</b>	<b>4.565</b>	<b>0.9289</b>	<b>0</b>	<b>None</b>		<b>x^(1/3)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>

# Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 3/14/2022, 3:13 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWC-10	-0.7132	-73	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-11	0.08249	75	48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-12	-1.43	-78	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-2	-0.2272	-99	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-20	-0.6903	-75	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-4	0.3017	65	48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-47	-0.03265	-87	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-48	-0.07326	-78	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-8	-0.3967	-78	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-9	-0.2711	-92	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-53 (bg)	-4.275	-63	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-11	4.601	75	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-19	6.354	87	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-2	-13.53	-95	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-4	17.38	59	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-48	-7.628	-87	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-5	7.063	55	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-53 (bg)	-0.1763	-70	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-12	-0.8473	-68	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-15	0.4803	57	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-19	-3.45	-83	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-20	2.662	93	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-21	-1.037	-76	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-22	-2.285	-80	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-23	-0.8946	-86	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-4	-3.438	-99	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-42	-3.126	-91	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-48	-1.978	-71	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-9	0.5633	54	53	Yes	15	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-47	-0.1955	-80	-63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-48	-0.1642	-76	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-13	-0.06625	-78	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.04803	76	63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-47	-0.1902	-68	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.1003	74	63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-9	-0.02679	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-70A (bg)	-0.216	-55	-53	Yes	15	40	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-71 (bg)	-1.312	-82	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-12	-50.98	-68	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-15	-9.472	-71	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-19	14.93	62	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-2	-53.07	-97	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-20	-48.56	-81	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-21	-8.732	-57	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-42	-15.64	-54	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-47	-51.02	-88	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-48	-54.75	-90	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-8	-69.52	-85	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-23.75	-68	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	30.62	64	48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	32.84	66	53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-55	-79	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	79.25	55	53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-60.89	-93	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	39.72	67	48	Yes	14	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 3/14/2022, 3:13 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWA-53 (bg)	-0.002527	-24	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-70A (bg)	0	28	53	No	15	53.33	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-71 (bg)	0.0001023	5	48	No	14	21.43	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-10</b>	<b>-0.7132</b>	<b>-73</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-11</b>	<b>0.08249</b>	<b>75</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-12</b>	<b>-1.43</b>	<b>-78</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-13	-0.07561	-48	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-15	0.008405	14	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-17	0.03786	51	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-19	-0.1663	-50	-53	No	15	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-2</b>	<b>-0.2272</b>	<b>-99</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-20</b>	<b>-0.6903</b>	<b>-75</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-21	0.2662	29	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-22	0.07733	22	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-23	0.0895	26	53	No	15	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-4</b>	<b>0.3017</b>	<b>65</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-42	-0.01594	-35	-53	No	15	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-47</b>	<b>-0.03265</b>	<b>-87</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-48</b>	<b>-0.07326</b>	<b>-78</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-5	-0.1368	-14	-48	No	14	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-8</b>	<b>-0.3967</b>	<b>-78</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-9</b>	<b>-0.2711</b>	<b>-92</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-4.275</b>	<b>-63</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWA-70A (bg)	-0.06518	-19	-53	No	15	6.667	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-71 (bg)	-0.5623	-35	-48	No	14	7.143	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-10	-1.103	-19	-48	No	14	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>DGWC-11</b>	<b>4.601</b>	<b>75</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWC-13	-0.7799	-18	-48	No	14	7.143	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>DGWC-19</b>	<b>6.354</b>	<b>87</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-2</b>	<b>-13.53</b>	<b>-95</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWC-20	-4.061	-29	-53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-21	2.327	53	53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-22	0.1555	16	53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-23	1.537	46	53	No	15	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>DGWC-4</b>	<b>17.38</b>	<b>59</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-48</b>	<b>-7.628</b>	<b>-87</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-5</b>	<b>7.063</b>	<b>55</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWC-9	-5.365	-37	-53	No	15	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-0.1763</b>	<b>-70</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWA-70A (bg)	-0.079	-43	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-71 (bg)	0.1515	25	53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-10	-0.5794	-39	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-11	0.7627	45	48	No	14	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWC-12</b>	<b>-0.8473</b>	<b>-68</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWC-13	-0.2641	-11	-48	No	14	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWC-15</b>	<b>0.4803</b>	<b>57</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWC-17	0.529	33	53	No	15	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWC-19</b>	<b>-3.45</b>	<b>-83</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-20</b>	<b>2.662</b>	<b>93</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-21</b>	<b>-1.037</b>	<b>-76</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-22</b>	<b>-2.285</b>	<b>-80</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-23</b>	<b>-0.8946</b>	<b>-86</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-4</b>	<b>-3.438</b>	<b>-99</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-42</b>	<b>-3.126</b>	<b>-91</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-48</b>	<b>-1.978</b>	<b>-71</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWC-5	0.3113	45	48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-8	-0.1555	-31	-48	No	14	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWC-9</b>	<b>0.5633</b>	<b>54</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	DGWA-53 (bg)	-0.003916	-14	-68	No	18	11.11	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-70A (bg)	0	53	58	No	16	68.75	n/a	n/a	0.01	NP



# Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 2

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 3/14/2022, 3:13 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Fluoride, total (mg/L)	DGWA-71 (bg)	0	35	63	No	17	82.35	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-10	0.03586	21	63	No	17	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-20	0.04913	16	63	No	17	5.882	n/a	n/a	0.01	NP
<b>Fluoride, total (mg/L)</b>	<b>DGWC-47</b>	<b>-0.1955</b>	<b>-80</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Fluoride, total (mg/L)</b>	<b>DGWC-48</b>	<b>-0.1642</b>	<b>-76</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	DGWC-9	0.03215	20	63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-53 (bg)	0.02528	14	68	No	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-70A (bg)	-0.02535	-32	-63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-71 (bg)	0.00911	13	68	No	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-10	0.03925	29	68	No	18	0	n/a	n/a	0.01	NP
<b>pH, Field (SU)</b>	<b>DGWC-13</b>	<b>-0.06625</b>	<b>-78</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH, Field (SU)</b>	<b>DGWC-19</b>	<b>0.04803</b>	<b>76</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH, Field (SU)	DGWC-20	-0.02415	-51	-58	No	16	0	n/a	n/a	0.01	NP
<b>pH, Field (SU)</b>	<b>DGWC-47</b>	<b>-0.1902</b>	<b>-68</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH, Field (SU)	DGWC-48	-0.04311	-40	-63	No	17	0	n/a	n/a	0.01	NP
<b>pH, Field (SU)</b>	<b>DGWC-5</b>	<b>0.1003</b>	<b>74</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH, Field (SU)</b>	<b>DGWC-9</b>	<b>-0.02679</b>	<b>-91</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWA-53 (bg)	-0.9208	-30	-58	No	16	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWA-70A (bg)</b>	<b>-0.216</b>	<b>-55</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>40</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWA-71 (bg)</b>	<b>-1.312</b>	<b>-82</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-10	-32.25	-48	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-11	11.59	36	48	No	14	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-12</b>	<b>-50.98</b>	<b>-68</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-13	-8.89	-47	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-14	-0.1167	-2	-48	No	14	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-15</b>	<b>-9.472</b>	<b>-71</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-17	-0.9288	-12	-53	No	15	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-19</b>	<b>14.93</b>	<b>62</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-2</b>	<b>-53.07</b>	<b>-97</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-20</b>	<b>-48.56</b>	<b>-81</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-21</b>	<b>-8.732</b>	<b>-57</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-22	-9.596	-24	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-23	0	-1	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-4	23.78	31	53	No	15	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-42</b>	<b>-15.64</b>	<b>-54</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-47</b>	<b>-51.02</b>	<b>-88</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-48</b>	<b>-54.75</b>	<b>-90</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-5	-1.321	-3	-48	No	14	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-8</b>	<b>-69.52</b>	<b>-85</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-9	-11.86	-29	-53	No	15	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-23.75</b>	<b>-68</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWA-70A (bg)	0	-1	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-71 (bg)	-4.828	-41	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	-33.06	-50	-53	No	15	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-11</b>	<b>30.62</b>	<b>64</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	1.09	7	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	10.13	46	53	No	15	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-19</b>	<b>32.84</b>	<b>66</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-20</b>	<b>-55</b>	<b>-79</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	-2.212	-6	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	-6.767	-41	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	0.8022	6	53	No	15	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-4</b>	<b>79.25</b>	<b>55</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	-20.5	-38	-53	No	15	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-48</b>	<b>-60.89</b>	<b>-93</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-5</b>	<b>39.72</b>	<b>67</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	3.023	4	53	No	15	0	n/a	n/a	0.01	NP

# Upper Tolerance Limits Summary Table

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:27 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	n/a	47	n/a	n/a	80.85	n/a	n/a	0.08974	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0054	n/a	n/a	n/a	n/a	47	n/a	n/a	76.6	n/a	n/a	0.08974	NP Inter(NDs)
Barium (mg/L)	n/a	0.19	n/a	n/a	n/a	n/a	47	n/a	n/a	0	n/a	n/a	0.08974	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0009	n/a	n/a	n/a	n/a	48	n/a	n/a	60.42	n/a	n/a	0.08526	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	47	n/a	n/a	93.62	n/a	n/a	0.08974	NP Inter(NDs)
Chromium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	46	n/a	n/a	63.04	n/a	n/a	0.09447	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0322	n/a	n/a	n/a	n/a	47	n/a	n/a	38.3	n/a	n/a	0.08974	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	4.983	n/a	n/a	n/a	n/a	49	1.109	0.5427	0	None	sqrt(x)	0.05	Inter
Fluoride, total (mg/L)	n/a	0.42	n/a	n/a	n/a	n/a	51	n/a	n/a	52.94	n/a	n/a	0.0731	NP Inter(NDs)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	47	n/a	n/a	80.85	n/a	n/a	0.08974	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a	47	n/a	n/a	36.17	n/a	n/a	0.08974	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	47	n/a	n/a	85.11	n/a	n/a	0.08974	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.0409	n/a	n/a	n/a	n/a	47	n/a	n/a	63.83	n/a	n/a	0.08974	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	47	n/a	n/a	100	n/a	n/a	0.08974	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	47	n/a	n/a	95.74	n/a	n/a	0.08974	NP Inter(NDs)

<b>PLANT MCDONOUGH ASH POND 2, 3, 4 GWPS TABLE</b>				
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>GWPS</b>
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		4.98	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 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.02913	0.01664	0.01	Yes	16	0.02289	0.009597	6.25	None	No	0.01	Param.
Beryllium (mg/L)	B-92	0.02525	0.01025	0.004	Yes	4	0.01775	0.003304	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.01753	0.01058	0.004	Yes	6	0.01432	0.003763	0	None	x^4	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009206	0.005901	0.004	Yes	15	0.007553	0.002439	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01262	0.009092	0.004	Yes	16	0.01086	0.002711	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009115	0.00746	0.004	Yes	16	0.008288	0.001272	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008667	0.006346	0.004	Yes	15	0.007507	0.001712	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.00586	0.004965	0.004	Yes	16	0.005413	0.0006879	0	None	No	0.01	Param.
Cobalt (mg/L)	B-104D	0.19	0.1	0.032	Yes	5	0.15	0.04637	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-56	0.05424	0.03896	0.032	Yes	5	0.0466	0.004561	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.05187	0.03613	0.032	Yes	6	0.044	0.005727	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.06769	0.06065	0.032	Yes	6	0.06417	0.002563	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.2	0.086	0.032	Yes	15	0.1501	0.04897	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-19	0.05338	0.04952	0.032	Yes	16	0.05145	0.002973	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6741	0.4755	0.032	Yes	16	0.5821	0.1636	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3773	0.2515	0.032	Yes	16	0.3144	0.09666	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.4998	0.3952	0.032	Yes	16	0.4475	0.08036	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.08457	0.04108	0.032	Yes	15	0.06283	0.03209	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.2031	0.1476	0.032	Yes	16	0.1754	0.04258	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)	DGWC-47	0.07348	0.05756	0.04	Yes	16	0.06552	0.01223	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1258	0.1063	0.04	Yes	16	0.1161	0.015	0	None	No	0.01	Param.

# Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	B-100	0.003	0.0013	0.006	No	5	0.0024	0.0008337	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-101D	0.0019	0.00039	0.006	No	4	0.001028	0.0006355	0	None	No	0.0625	NP (selected)
Antimony (mg/L)	B-102D	0.003	0.0016	0.006	No	5	0.00272	0.0006261	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-104D	0.001115	0.0004656	0.006	No	5	0.001208	0.001019	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Antimony (mg/L)	B-106D	0.003	0.00048	0.006	No	4	0.00237	0.00126	75	Kaplan-Meier	No	0.0625	NP (NDs)
Antimony (mg/L)	B-109D	0.004	0.00042	0.006	No	4	0.00169	0.001603	25	None	No	0.0625	NP (selected)
Antimony (mg/L)	B-111D	0.003	0.0006	0.006	No	5	0.00252	0.001073	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-56	0.003	0.0011	0.006	No	5	0.00262	0.0008497	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.00046	0.006	No	8	0.002683	0.000898	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.00066	0.006	No	5	0.002532	0.001046	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00036	0.006	No	7	0.001917	0.001353	57.14	None	No	0.008	NP (NDs)
Antimony (mg/L)	B-93	0.003	0.0014	0.006	No	5	0.00268	0.0007155	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	DGWC-10	0.003	0.0021	0.006	No	15	0.00294	0.0002324	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	17	0.002841	0.0006548	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	16	0.002881	0.000475	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	16	0.002691	0.0008468	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	16	0.002841	0.0006375	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.00036	0.006	No	16	0.002835	0.00066	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	16	0.00285	0.0006	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	16	0.002894	0.000425	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	16	0.002856	0.000575	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No	15	0.002525	0.0009859	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No	16	0.002888	0.00045	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	16	0.002762	0.0006998	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	15	0.002721	0.0007685	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.00046	0.006	No	15	0.002831	0.0006558	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-101D	0.005	0.0017	0.01	No	4	0.004175	0.00165	75	None	No	0.0625	NP (NDs)
Arsenic (mg/L)	B-104D	0.003739	0.001527	0.01	No	5	0.00358	0.001417	40	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-109D	0.005	0.0026	0.01	No	4	0.0044	0.0012	75	None	No	0.0625	NP (NDs)
Arsenic (mg/L)	B-111D	0.002994	0.001984	0.01	No	5	0.00348	0.001413	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Arsenic (mg/L)	B-56	0.0047	0.003	0.01	No	5	0.0037	0.0008276	0	None	No	0.031	NP (normality)
Arsenic (mg/L)	B-62	0.005	0.0033	0.01	No	8	0.004787	0.000601	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	B-63	0.005	0.0022	0.01	No	5	0.00444	0.001252	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	B-77	0.002995	0.00198	0.01	No	7	0.0032	0.00129	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	B-82	0.005	0.003	0.01	No	7	0.004714	0.0007559	85.71	None	No	0.008	NP (NDs)
Arsenic (mg/L)	B-83	0.005	0.0014	0.01	No	6	0.0044	0.00147	83.33	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	B-93	0.002958	0.001042	0.01	No	5	0.0032	0.001716	40	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-10	0.006969	0.003657	0.01	No	15	0.005313	0.002444	6.667	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	17	0.004484	0.001456	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	16	0.004712	0.001152	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	16	0.004221	0.00168	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0008	0.01	No	16	0.003271	0.002034	56.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.001941	0.000939	0.01	No	16	0.002259	0.001516	18.75	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No	16	0.004424	0.001273	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01654	0.007987	0.01	No	16	0.01226	0.006572	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No	16	0.00475	0.001	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0008	0.01	No	15	0.00386	0.001961	73.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	16	0.004487	0.001402	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.002781	0.001442	0.01	No	16	0.002687	0.001474	18.75	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.0008	0.01	No	16	0.003318	0.001988	56.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.00948	0.002765	0.01	No	15	0.008007	0.009756	13.33	None	ln(x)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.005	0.0012	0.01	No	15	0.003777	0.001805	66.67	None	No	0.01	NP (NDs)
<b>Arsenic (mg/L)</b>	<b>DGWC-9</b>	<b>0.02913</b>	<b>0.01664</b>	<b>0.01</b>	<b>Yes</b>	<b>16</b>	<b>0.02289</b>	<b>0.009597</b>	<b>6.25</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Barium (mg/L)	B-100	0.02464	0.01515	2	No	5	0.0206	0.003209	0	None	x^3	0.01	Param.
Barium (mg/L)	B-101D	0.08756	0.05325	2	No	4	0.0695	0.00755	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	B-102D	0.02437	0.01963	2	No	5	0.022	0.001414	0	None	No	0.01	Param.
Barium (mg/L)	B-104D	0.02643	0.01917	2	No	5	0.0228	0.002168	0	None	No	0.01	Param.

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	B-106D	0.02292	0.01858	2	No	4	0.02075	0.0009574	0	None	No	0.01	Param.
Barium (mg/L)	B-107D	0.1549	0.05958	2	No	4	0.1073	0.021	0	None	No	0.01	Param.
Barium (mg/L)	B-108D	0.06986	0.05114	2	No	4	0.0605	0.004123	0	None	No	0.01	Param.
Barium (mg/L)	B-109D	0.08497	0.007526	2	No	4	0.04625	0.01706	0	None	No	0.01	Param.
Barium (mg/L)	B-111D	0.04672	0.02248	2	No	5	0.0346	0.007232	0	None	No	0.01	Param.
Barium (mg/L)	B-56	0.03135	0.02465	2	No	5	0.028	0.002	0	None	No	0.01	Param.
Barium (mg/L)	B-62	0.02672	0.02003	2	No	8	0.02338	0.003159	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.02917	0.01723	2	No	5	0.0232	0.003564	0	None	No	0.01	Param.
Barium (mg/L)	B-66	0.02113	0.01487	2	No	5	0.018	0.001871	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.1281	0.09357	2	No	7	0.1109	0.01455	0	None	No	0.01	Param.
Barium (mg/L)	B-82	0.03114	0.02086	2	No	6	0.026	0.003742	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.04907	0.02034	2	No	6	0.03383	0.01143	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	B-88	0.0243	0.0153	2	No	5	0.0198	0.002683	0	None	No	0.01	Param.
Barium (mg/L)	B-93	0.02107	0.01413	2	No	5	0.0176	0.002074	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.02917	0.02293	2	No	15	0.02605	0.004606	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06572	0.05513	2	No	15	0.06043	0.007817	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03386	0.02441	2	No	17	0.02975	0.008686	0	None	ln(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03263	0.02737	2	No	15	0.02901	0.007107	6.667	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06275	0.0582	2	No	16	0.06048	0.003503	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.05027	0.04394	2	No	16	0.04711	0.004864	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.0553	0.04047	2	No	16	0.04789	0.01139	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02548	0.02201	2	No	16	0.02374	0.002664	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02263	0.02137	2	No	16	0.022	0.0009661	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01565	0.009614	2	No	16	0.01263	0.004637	6.25	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.024	2	No	16	0.02584	0.001534	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03732	0.03162	2	No	16	0.03447	0.004386	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.02371	0.01873	2	No	16	0.02131	0.004018	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03608	0.0324	2	No	15	0.03424	0.002708	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.02019	0.01598	2	No	16	0.01809	0.003235	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-47	0.01957	0.01604	2	No	16	0.01781	0.002708	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.0155	0.013	2	No	16	0.01369	0.0009849	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-5	0.01831	0.0166	2	No	14	0.01746	0.001208	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03722	0.02572	2	No	15	0.03147	0.008488	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.01621	0.01491	2	No	16	0.01556	0.001002	0	None	No	0.01	Param.
Beryllium (mg/L)	B-100	0.0005873	0.0003207	0.004	No	5	0.000454	0.00007956	0	None	No	0.01	Param.
Beryllium (mg/L)	B-101D	0.00009478	0.00003472	0.004	No	4	0.00006475	0.00001323	0	None	No	0.01	Param.
Beryllium (mg/L)	B-102D	0.001438	0.001002	0.004	No	5	0.00122	0.0001304	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.00162	0.00102	0.004	No	5	0.00132	0.0001789	0	None	No	0.01	Param.
Beryllium (mg/L)	B-106D	0.0001442	0.0001008	0.004	No	4	0.0001225	0.000009574	0	None	No	0.01	Param.
Beryllium (mg/L)	B-107D	0.0005	0.00005	0.004	No	4	0.0003875	0.000225	75	None	No	0.0625	NP (NDs)
Beryllium (mg/L)	B-109D	0.0005	0.000059	0.004	No	4	0.0001773	0.0002153	25	None	No	0.0625	NP (normality)
Beryllium (mg/L)	B-56	0.001318	0.001082	0.004	No	5	0.0012	0.00007071	0	None	No	0.01	Param.
Beryllium (mg/L)	B-62	0.0005	0.000078	0.004	No	9	0.000202	0.0001705	22.22	None	No	0.002	NP (normality)
Beryllium (mg/L)	B-63	0.0004902	0.0003098	0.004	No	7	0.0004	0.00007594	14.29	None	No	0.01	Param.
Beryllium (mg/L)	B-77	0.0005	0.000053	0.004	No	7	0.0002657	0.0002212	42.86	None	No	0.008	NP (normality)
Beryllium (mg/L)	B-82	0.002008	0.001092	0.004	No	6	0.00155	0.0003332	0	None	No	0.01	Param.
Beryllium (mg/L)	B-83	0.0006048	0.0002408	0.004	No	6	0.0004017	0.0001548	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	B-88	0.005069	0.0001483	0.004	No	5	0.001986	0.00175	0	None	sqrt(x)	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>B-92</b>	<b>0.02525</b>	<b>0.01025</b>	<b>0.004</b>	<b>Yes</b>	<b>4</b>	<b>0.01775</b>	<b>0.003304</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Beryllium (mg/L)</b>	<b>B-93</b>	<b>0.01753</b>	<b>0.01058</b>	<b>0.004</b>	<b>Yes</b>	<b>6</b>	<b>0.01432</b>	<b>0.003763</b>	<b>0</b>	<b>None</b>	<b>x^4</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	B-97	0.002084	0.0003761	0.004	No	5	0.00152	0.0005848	20	Kaplan-Meier	x^2	0.01	Param.
Beryllium (mg/L)	B-98	0.00087	0.000068	0.004	No	5	0.0004876	0.0002841	60	Kaplan-Meier	No	0.031	NP (NDs)
<b>Beryllium (mg/L)</b>	<b>DGWC-10</b>	<b>0.009206</b>	<b>0.005901</b>	<b>0.004</b>	<b>Yes</b>	<b>15</b>	<b>0.007553</b>	<b>0.002439</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	DGWC-11	0.0005	0.00013	0.004	No	15	0.000476	0.0007205	46.67	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00049	0.00016	0.004	No	17	0.0004005	0.0006832	17.65	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No	15	0.0004967	0.0007238	60	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	16	0.0006111	0.0006494	87.5	None	No	0.01	NP (NDs)

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	DGWC-17	0.0006166	0.0005309	0.004	No	16	0.0005738	0.00006592	12.5	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-19	0.0021	0.0017	0.004	No	16	0.001906	0.0004809	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-20	0.005282	0.00248	0.004	No	16	0.003881	0.002153	12.5	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0002	0.00015	0.004	No	16	0.0003625	0.0007092	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.0002	0.00014	0.004	No	16	0.0003613	0.0007093	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	16	0.0006081	0.0006451	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00033	0.00019	0.004	No	15	0.0004213	0.0007196	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.0027	0.002043	0.004	No	16	0.002313	0.0006407	6.25	None	x^2	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>DGWC-47</b>	<b>0.01262</b>	<b>0.009092</b>	<b>0.004</b>	<b>Yes</b>	<b>16</b>	<b>0.01086</b>	<b>0.002711</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Beryllium (mg/L)</b>	<b>DGWC-48</b>	<b>0.009115</b>	<b>0.00746</b>	<b>0.004</b>	<b>Yes</b>	<b>16</b>	<b>0.008288</b>	<b>0.001272</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Beryllium (mg/L)</b>	<b>DGWC-5</b>	<b>0.008667</b>	<b>0.006346</b>	<b>0.004</b>	<b>Yes</b>	<b>15</b>	<b>0.007507</b>	<b>0.001712</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	DGWC-8	0.002987	0.001628	0.004	No	15	0.00236	0.00108	6.667	None	sqrt(x)	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>DGWC-9</b>	<b>0.00586</b>	<b>0.004965</b>	<b>0.004</b>	<b>Yes</b>	<b>16</b>	<b>0.005413</b>	<b>0.0006879</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cadmium (mg/L)	B-100	0.00059	0.00027	0.005	No	5	0.000402	0.0001718	0	None	No	0.031	NP (normality)
Cadmium (mg/L)	B-101D	0.0005	0.00011	0.005	No	4	0.0004025	0.000195	75	None	No	0.0625	NP (NDs)
Cadmium (mg/L)	B-102D	0.0009489	0.0006591	0.005	No	5	0.000804	0.00008649	0	None	No	0.01	Param.
Cadmium (mg/L)	B-106D	0.0003088	0.00007618	0.005	No	4	0.0001925	0.00005123	0	None	No	0.01	Param.
Cadmium (mg/L)	B-56	0.0002987	0.0002293	0.005	No	5	0.000264	0.00002074	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0005	0.00014	0.005	No	5	0.000378	0.0001715	60	None	No	0.031	NP (NDs)
Cadmium (mg/L)	B-82	0.0007813	0.0003687	0.005	No	6	0.000575	0.0001502	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0004012	0.0002521	0.005	No	6	0.0003267	0.00005428	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.0065	0.00022	0.005	No	5	0.002684	0.002458	0	None	No	0.031	NP (selected)
Cadmium (mg/L)	B-93	0.0008797	0.0006923	0.005	No	5	0.000786	0.00005595	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001179	0.0007973	0.005	No	15	0.000988	0.0002814	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00016	0.005	No	15	0.0004047	0.0001639	73.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003402	0.0002276	0.005	No	17	0.0004006	0.0001874	29.41	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	15	0.000452	0.0001287	86.67	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00012	0.005	No	16	0.0004331	0.0002304	75	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.00033	0.00023	0.005	No	16	0.0002969	0.00008784	12.5	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.00041	0.00034	0.005	No	16	0.00042	0.0001609	12.5	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.000281	0.0001339	0.005	No	16	0.000375	0.0002281	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-20	0.002305	0.001758	0.005	No	16	0.002031	0.0004207	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.000639	0.0003517	0.005	No	16	0.0005981	0.0001973	18.75	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0006895	0.0004592	0.005	No	16	0.0005744	0.000177	12.5	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0003	0.00018	0.005	No	16	0.0002856	0.0002091	12.5	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.000847	0.0006264	0.005	No	15	0.0007367	0.0001628	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.001058	0.0004581	0.005	No	16	0.0007956	0.0005496	12.5	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.00216	0.00129	0.005	No	16	0.001725	0.0006678	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.0042	0.0028	0.005	No	16	0.003488	0.001632	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-5	0.0008318	0.0004655	0.005	No	15	0.0006487	0.0002703	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002476	0.001924	0.005	No	15	0.0022	0.0004071	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006618	0.0005096	0.005	No	16	0.0005925	0.0001326	12.5	None	ln(x)	0.01	Param.
Chromium (mg/L)	B-100	0.005	0.00057	0.1	No	5	0.003302	0.002329	60	None	No	0.031	NP (NDs)
Chromium (mg/L)	B-101D	0.005	0.0014	0.1	No	4	0.0041	0.0018	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	B-104D	0.005	0.0011	0.1	No	5	0.00422	0.001744	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	B-109D	0.005	0.00061	0.1	No	4	0.003902	0.002195	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	B-56	0.001524	0.0003348	0.1	No	5	0.002678	0.002145	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	B-62	0.005	0.00098	0.1	No	8	0.004497	0.001421	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.00064	0.1	No	5	0.004128	0.00195	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	B-77	0.005	0.00068	0.1	No	7	0.00278	0.00213	42.86	None	No	0.008	NP (normality)
Chromium (mg/L)	B-82	0.005	0.0011	0.1	No	6	0.00435	0.001592	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-83	0.005747	0.001953	0.1	No	6	0.00385	0.001381	0	None	No	0.01	Param.
Chromium (mg/L)	B-88	0.00197	0.0007556	0.1	No	5	0.00279	0.00204	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	B-93	0.001195	0.0004647	0.1	No	5	0.002466	0.002322	40	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	DGWC-10	0.005	0.00078	0.1	No	15	0.00224	0.002024	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.0006	0.1	No	15	0.003826	0.002015	73.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No	17	0.004525	0.00134	88.24	None	No	0.01	NP (NDs)

# Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	DGWC-13	0.005	0.00074	0.1	No	15	0.003859	0.001959	73.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.00058	0.1	No	16	0.004459	0.00232	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0035	0.0025	0.1	No	16	0.003037	0.0008366	12.5	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.0031	0.0024	0.1	No	16	0.003387	0.001958	18.75	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.0005	0.1	No	16	0.003323	0.002237	62.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.005	0.0016	0.1	No	16	0.003381	0.002329	37.5	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-21	0.005	0.0005	0.1	No	16	0.003434	0.002117	62.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	16	0.004762	0.00095	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0005	0.1	No	16	0.002363	0.002124	37.5	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	15	0.0047	0.001162	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.0005	0.1	No	16	0.003202	0.002139	56.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	16	0.004731	0.001075	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	16	0.004444	0.001521	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	15	0.004697	0.001175	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.005	0.00086	0.1	No	15	0.003498	0.001973	60	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.0057	0.00059	0.1	No	16	0.003549	0.002106	56.25	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.087	0.029	0.032	No	7	0.05457	0.02716	0	None	No	0.008	NP (normality)
Cobalt (mg/L)	B-101D	0.003913	0.001837	0.032	No	4	0.002875	0.0004573	0	None	No	0.01	Param.
Cobalt (mg/L)	B-102D	0.01518	0.01282	0.032	No	5	0.014	0.0007071	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>B-104D</b>	<b>0.19</b>	<b>0.1</b>	<b>0.032</b>	<b>Yes</b>	<b>5</b>	<b>0.15</b>	<b>0.04637</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.031</b>	<b>NP (selected)</b>
Cobalt (mg/L)	B-106D	0.001021	0.0004466	0.032	No	4	0.001157	0.0009039	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-107D	0.002061	0.0002441	0.032	No	4	0.001153	0.0004001	0	None	No	0.01	Param.
Cobalt (mg/L)	B-108D	0.0048	0.00061	0.032	No	4	0.002203	0.001806	0	None	No	0.0625	NP (selected)
Cobalt (mg/L)	B-111D	0.0008753	0.0003847	0.032	No	5	0.000978	0.0008622	20	Kaplan-Meier	ln(x)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>B-56</b>	<b>0.05424</b>	<b>0.03896</b>	<b>0.032</b>	<b>Yes</b>	<b>5</b>	<b>0.0466</b>	<b>0.004561</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-62	0.0025	0.0003	0.032	No	8	0.001951	0.001016	75	None	No	0.004	NP (NDs)
<b>Cobalt (mg/L)</b>	<b>B-63</b>	<b>0.05187</b>	<b>0.03613</b>	<b>0.032</b>	<b>Yes</b>	<b>6</b>	<b>0.044</b>	<b>0.005727</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-66	0.013	0.004798	0.032	No	6	0.008483	0.003955	16.67	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-77	0.002764	0.0005955	0.032	No	7	0.001914	0.0009245	28.57	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-82	0.006994	0.001092	0.032	No	7	0.004043	0.002485	0	None	No	0.01	Param.
Cobalt (mg/L)	B-83	0.02028	0.005788	0.032	No	6	0.01303	0.005274	0	None	No	0.01	Param.
Cobalt (mg/L)	B-88	0.02345	0.0009922	0.032	No	6	0.008367	0.009138	0	None	ln(x)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>B-93</b>	<b>0.06769</b>	<b>0.06065</b>	<b>0.032</b>	<b>Yes</b>	<b>6</b>	<b>0.06417</b>	<b>0.002563</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-98	0.0048	0.0025	0.032	No	4	0.003075	0.00115	75	None	No	0.0625	NP (NDs)
<b>Cobalt (mg/L)</b>	<b>DGWC-10</b>	<b>0.2</b>	<b>0.086</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.1501</b>	<b>0.04897</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>NP (normality)</b>
Cobalt (mg/L)	DGWC-11	0.0025	0.0006	0.032	No	15	0.001482	0.0008885	40	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.013	0.0021	0.032	No	17	0.008706	0.009703	11.76	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-13	0.0025	0.0005	0.032	No	15	0.002085	0.0008588	80	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0028	0.0016	0.032	No	16	0.003519	0.00577	6.25	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02676	0.02009	0.032	No	16	0.02287	0.006278	6.25	None	x^2	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-19</b>	<b>0.05338</b>	<b>0.04952</b>	<b>0.032</b>	<b>Yes</b>	<b>16</b>	<b>0.05145</b>	<b>0.002973</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-2	0.0284	0.0055	0.032	No	16	0.01676	0.01166	0	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>DGWC-20</b>	<b>0.6741</b>	<b>0.4755</b>	<b>0.032</b>	<b>Yes</b>	<b>16</b>	<b>0.5821</b>	<b>0.1636</b>	<b>0</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-21	0.009705	0.008358	0.032	No	16	0.008556	0.002085	12.5	None	x^5	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009815	0.007486	0.032	No	16	0.008469	0.002183	12.5	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.0025	0.00039	0.032	No	16	0.001752	0.001348	56.25	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-4	0.0021	0.0015	0.032	No	15	0.002013	0.0008717	13.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.0426	0.01599	0.032	No	16	0.02929	0.02045	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-47</b>	<b>0.3773</b>	<b>0.2515</b>	<b>0.032</b>	<b>Yes</b>	<b>16</b>	<b>0.3144</b>	<b>0.09666</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-48</b>	<b>0.4998</b>	<b>0.3952</b>	<b>0.032</b>	<b>Yes</b>	<b>16</b>	<b>0.4475</b>	<b>0.08036</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-5	0.04	0.02	0.032	No	15	0.02775	0.01072	0	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>DGWC-8</b>	<b>0.08457</b>	<b>0.04108</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.06283</b>	<b>0.03209</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-9</b>	<b>0.2031</b>	<b>0.1476</b>	<b>0.032</b>	<b>Yes</b>	<b>16</b>	<b>0.1754</b>	<b>0.04258</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Combined Radium 226 + 228 (pCi/L)	B-100	1.4	0.168	5	No	5	0.782	0.4357	0	None	No	0.031	NP (selected)
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	1.74	0.628	5	No	5	1.002	0.4775	0	None	No	0.031	NP (selected)
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>B-104D</b>	<b>18.51</b>	<b>8.768</b>	<b>5</b>	<b>Yes</b>	<b>5</b>	<b>13.64</b>	<b>2.907</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>



# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	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.
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>B-109D</b>	<b>18.75</b>	<b>6.021</b>	<b>5</b>	<b>Yes</b>	<b>4</b>	<b>12.39</b>	<b>2.804</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
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	1.951	1.275	5	No	7	1.613	0.2846	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	2.17	0.617	5	No	6	1.416	0.7269	0	None	No	0.0155	NP (selected)
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	1.15	0.0359	5	No	6	0.6532	0.3977	0	None	No	0.0155	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-88	2.84	0.771	5	No	5	1.637	0.9496	0	None	No	0.031	NP (selected)
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-101D	0.1	0.051	4	No	4	0.064	0.02401	25	None	No	0.0625	NP (normality)
Fluoride, total (mg/L)	B-102D	0.1115	0.05295	4	No	5	0.0822	0.01746	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-104D	0.5246	0.2354	4	No	5	0.38	0.08631	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-106D	0.1	0.052	4	No	4	0.06475	0.02354	25	None	No	0.0625	NP (normality)
Fluoride, total (mg/L)	B-109D	0.1993	0.08574	4	No	4	0.1425	0.025	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-111D	0.6099	0.2341	4	No	5	0.422	0.1121	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-56	0.3525	0.06269	4	No	5	0.2076	0.08648	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-62	0.43	0.093	4	No	7	0.1731	0.1226	0	None	No	0.008	NP (normality)
Fluoride, total (mg/L)	B-63	0.45	0.12	4	No	4	0.2325	0.1486	0	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-66	0.51	0.12	4	No	4	0.2875	0.1656	0	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-77	0.1	0.078	4	No	6	0.09567	0.008802	66.67	None	No	0.0155	NP (NDs)
Fluoride, total (mg/L)	B-82	0.2	0.052	4	No	5	0.1104	0.05423	60	None	No	0.031	NP (NDs)
Fluoride, total (mg/L)	B-83	0.11	0.03719	4	No	6	0.08617	0.02915	33.33	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	B-93	0.4115	0.2725	4	No	5	0.342	0.04147	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-10	1.858	1.374	4	No	17	1.616	0.3859	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-11	0.1	0.052	4	No	16	0.08163	0.02569	62.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-12	0.2	0.085	4	No	17	0.1549	0.1411	35.29	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-13	0.203	0.0833	4	No	16	0.1511	0.1082	6.25	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-14	0.1	0.06	4	No	17	0.08671	0.02582	70.59	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-15	0.11	0.079	4	No	17	0.1051	0.04225	64.71	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-17	0.219	0.08606	4	No	17	0.1978	0.1524	17.65	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-19	0.4699	0.1718	4	No	17	0.3588	0.3073	5.882	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-2	0.28	0.053	4	No	17	0.1404	0.1539	41.18	None	No	0.01	NP (normality)

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	DGWC-20	0.9847	0.4388	4	No	17	0.7118	0.4356	5.882	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-21	0.14	0.079	4	No	17	0.1066	0.06454	64.71	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-22	0.12	0.09	4	No	17	0.1174	0.06341	52.94	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-23	0.2156	0.09287	4	No	17	0.1802	0.1523	11.76	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-4	0.17	0.082	4	No	17	0.1342	0.1722	70.59	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-42	0.1	0.06	4	No	17	0.09294	0.02114	88.24	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-47	1.115	0.5252	4	No	17	0.82	0.4704	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-48	1.156	0.6086	4	No	17	0.8824	0.437	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-5	0.6778	0.2217	4	No	16	0.5431	0.4512	6.25	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-8	0.355	0.09666	4	No	16	0.2751	0.2307	18.75	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-9	1.378	0.9813	4	No	17	1.179	0.3162	0	None	No	0.01	Param.
Lead (mg/L)	B-100	0.0002658	0.00007745	0.015	No	5	0.0004956	0.0004626	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	B-101D	0.001	0.000065	0.015	No	4	0.0007663	0.0004675	75	Kaplan-Meier	No	0.0625	NP (NDs)
Lead (mg/L)	B-102D	0.001	0.000037	0.015	No	5	0.0004292	0.0005211	40	None	No	0.031	NP (normality)
Lead (mg/L)	B-104D	0.001	0.000051	0.015	No	5	0.0008102	0.0004244	80	None	No	0.031	NP (NDs)
Lead (mg/L)	B-107D	0.001	0.000044	0.015	No	4	0.000761	0.000478	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000051	0.015	No	5	0.0006218	0.0005179	60	None	No	0.031	NP (NDs)
Lead (mg/L)	B-56	0.0002446	0.00006493	0.015	No	5	0.0004822	0.0004754	40	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	B-63	0.001	0.000047	0.015	No	5	0.000624	0.0005149	60	Kaplan-Meier	No	0.031	NP (NDs)
Lead (mg/L)	B-77	0.0016	0.00021	0.015	No	7	0.0007743	0.0005154	42.86	None	No	0.008	NP (selected)
Lead (mg/L)	B-82	0.001	0.000059	0.015	No	6	0.0005548	0.0004887	50	None	No	0.0155	NP (normality)
Lead (mg/L)	B-83	0.001	0.000065	0.015	No	6	0.0005458	0.0004704	33.33	None	No	0.0155	NP (normality)
Lead (mg/L)	B-88	0.01033	0.00001383	0.015	No	5	0.003272	0.004927	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	B-93	0.001	0.00012	0.015	No	5	0.000648	0.000482	60	None	No	0.031	NP (NDs)
Lead (mg/L)	DGWC-10	0.001	0.00011	0.015	No	15	0.0006521	0.0004424	60	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.0001	0.015	No	15	0.0006999	0.0004397	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.001	0.00011	0.015	No	17	0.0008947	0.0002972	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.015	No	15	0.0008865	0.0003001	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.015	No	16	0.0008264	0.0003733	81.25	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.0012	0.0001	0.015	No	16	0.0007338	0.0004393	62.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.00009	0.015	No	16	0.0006121	0.0004549	56.25	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00007	0.015	No	16	0.0007243	0.0004251	68.75	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.000086	0.015	No	16	0.0005459	0.0004693	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-20	0.001	0.00015	0.015	No	16	0.0007479	0.0003629	62.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.00014	0.015	No	16	0.0006416	0.0004258	56.25	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.015	No	16	0.0009416	0.0002335	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.00012	0.015	No	15	0.0007646	0.0004051	73.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0004511	0.0001577	0.015	No	16	0.0008263	0.001188	25	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.001	0.00053	0.015	No	16	0.001076	0.001068	31.25	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.0022	0.00095	0.015	No	16	0.001629	0.001139	12.5	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.001	0.000051	0.015	No	15	0.0006252	0.0006613	40	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.001	0.00011	0.015	No	15	0.0006521	0.0004097	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-9	0.001	0.00028	0.015	No	16	0.00085	0.0003235	81.25	None	No	0.01	NP (NDs)
Lithium (mg/L)	B-100	0.003016	0.001264	0.04	No	5	0.00214	0.0005225	0	None	No	0.01	Param.
Lithium (mg/L)	B-101D	0.017	0.006902	0.04	No	4	0.01195	0.002223	0	None	No	0.01	Param.
Lithium (mg/L)	B-102D	0.01538	0.01102	0.04	No	5	0.0132	0.001304	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.04001	0.03494	0.04	No	5	0.0376	0.001517	0	None	x^3	0.01	Param.
Lithium (mg/L)	B-106D	0.006141	0.004509	0.04	No	4	0.005325	0.0003594	0	None	No	0.01	Param.
Lithium (mg/L)	B-107D	0.01811	0.01239	0.04	No	4	0.01525	0.001258	0	None	No	0.01	Param.
Lithium (mg/L)	B-108D	0.01692	0.01258	0.04	No	4	0.01475	0.0009574	0	None	No	0.01	Param.
Lithium (mg/L)	B-109D	0.01711	0.01139	0.04	No	4	0.01425	0.001258	0	None	No	0.01	Param.
Lithium (mg/L)	B-111D	0.03138	0.01862	0.04	No	5	0.025	0.003808	0	None	No	0.01	Param.
Lithium (mg/L)	B-56	0.006196	0.004724	0.04	No	5	0.00546	0.0004393	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.015	0.0078	0.04	No	8	0.009375	0.002345	12.5	None	No	0.004	NP (normality)
Lithium (mg/L)	B-63	0.015	0.0062	0.04	No	6	0.0078	0.00353	16.67	None	No	0.0155	NP (normality)
Lithium (mg/L)	B-66	0.015	0.00073	0.04	No	5	0.01215	0.006382	80	None	No	0.031	NP (NDs)
Lithium (mg/L)	B-77	0.004192	0.0008941	0.04	No	7	0.006021	0.00628	28.57	Kaplan-Meier	x^(1/3)	0.01	Param.

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	B-82	0.004158	0.0006351	0.04	No	6	0.001987	0.001394	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	B-83	0.004017	0.001316	0.04	No	6	0.002667	0.0009832	0	None	No	0.01	Param.
Lithium (mg/L)	B-88	0.029	0.0016	0.04	No	5	0.00898	0.01143	0	None	No	0.031	NP (selected)
Lithium (mg/L)	B-93	0.013	0.011	0.04	No	5	0.0116	0.0008944	0	None	No	0.031	NP (normality)
Lithium (mg/L)	DGWC-10	0.006718	0.002851	0.04	No	15	0.00538	0.004126	13.33	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.04	No	15	0.003113	0.003305	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.0011	0.04	No	17	0.01089	0.006559	70.59	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.0037	0.0029	0.04	No	15	0.0048	0.004151	13.33	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0034	0.04	No	16	0.004694	0.002975	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0064	0.0057	0.04	No	15	0.006173	0.0008681	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.00096	0.04	No	16	0.009782	0.006959	62.5	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0035	0.003	0.04	No	16	0.003937	0.002958	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.085	0.023	0.04	No	16	0.04749	0.02995	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.04	No	16	0.006756	0.005599	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-21	0.0063	0.0057	0.04	No	16	0.006512	0.002288	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0046	0.0036	0.04	No	16	0.004737	0.00277	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.0118	0.003707	0.04	No	16	0.01111	0.01783	6.25	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-4	0.0038	0.0025	0.04	No	15	0.003787	0.003138	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01251	0.00968	0.04	No	16	0.01109	0.002172	6.25	None	No	0.01	Param.
<b>Lithium (mg/L)</b>	<b>DGWC-47</b>	<b>0.07348</b>	<b>0.05756</b>	<b>0.04</b>	<b>Yes</b>	<b>16</b>	<b>0.06552</b>	<b>0.01223</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>DGWC-48</b>	<b>0.1258</b>	<b>0.1063</b>	<b>0.04</b>	<b>Yes</b>	<b>16</b>	<b>0.1161</b>	<b>0.015</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	DGWC-5	0.00808	0.004375	0.04	No	15	0.006373	0.002953	6.667	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	DGWC-8	0.006975	0.004221	0.04	No	15	0.005847	0.002818	6.667	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-9	0.02929	0.02363	0.04	No	16	0.02646	0.004347	6.25	None	No	0.01	Param.
Mercury (mg/L)	B-100	0.0002	0.00011	0.002	No	4	0.0001775	0.000045	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-101D	0.0002	0.00014	0.002	No	4	0.000185	0.00003	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-104D	0.0002	0.000079	0.002	No	5	0.0001758	0.00005411	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-107D	0.0002	0.00016	0.002	No	4	0.00019	0.00002	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-108D	0.0002	0.00014	0.002	No	4	0.000185	0.00003	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.000094	0.002	No	5	0.0001788	0.0000474	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-56	0.0002	0.00016	0.002	No	5	0.000192	0.00001789	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No	6	0.000185	0.00003674	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.0001	0.002	No	5	0.000162	0.00005215	60	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-93	0.0002837	0.00006508	0.002	No	5	0.0001896	0.00006626	20	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0002	0.000081	0.002	No	15	0.0001681	0.00005494	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.0002	0.00008	0.002	No	15	0.0001727	0.00005688	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00008	0.002	No	17	0.0001568	0.00006349	64.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	15	0.000184	0.00004239	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	16	0.0001744	0.00005537	81.25	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	16	0.0001912	0.000035	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.00006	0.002	No	16	0.0001441	0.00006323	50	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-19	0.0002	0.00009	0.002	No	16	0.0001737	0.00005726	81.25	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	16	0.0002046	0.000126	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	16	0.0001781	0.00004708	81.25	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00008	0.002	No	16	0.0001606	0.00006202	68.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.0001	0.002	No	16	0.0001697	0.00005593	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0001952	0.000126	0.002	No	16	0.0001862	0.00005548	31.25	Kaplan-Meier	sqrt(x)	0.01	Param.
Mercury (mg/L)	DGWC-4	0.00022	0.00013	0.002	No	15	0.0002068	0.000115	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	16	0.00019	0.00004	93.75	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	16	0.0001912	0.000035	93.75	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002535	0.0001262	0.002	No	15	0.0001983	0.0001154	13.33	None	x^(1/3)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.000079	0.002	No	15	0.0001527	0.00006222	60	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.00021	0.00013	0.002	No	16	0.0001851	0.00008525	43.75	None	No	0.01	NP (normality)
Molybdenum (mg/L)	B-101D	0.01	0.0022	0.1	No	4	0.00805	0.0039	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	B-104D	0.01	0.00083	0.1	No	5	0.006406	0.004923	60	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	B-109D	0.002608	0.0003417	0.1	No	4	0.001475	0.0004992	0	None	No	0.01	Param.
Molybdenum (mg/L)	B-111D	0.013	0.0052	0.1	No	5	0.00716	0.003317	0	None	No	0.031	NP (normality)

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	B-66	0.01	0.0015	0.1	No	5	0.00666	0.004575	60	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.1	No	5	0.00648	0.00482	60	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	DGWC-13	0.02437	0.01244	0.1	No	15	0.01892	0.009349	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.0018	0.1	No	16	0.004912	0.00409	37.5	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01092	0.006853	0.1	No	16	0.008888	0.003128	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.007089	0.004724	0.1	No	15	0.005907	0.001745	6.667	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.0019	0.05	No	5	0.00438	0.001386	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-101D	0.005	0.0031	0.05	No	4	0.004525	0.00095	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-104D	0.005	0.0016	0.05	No	5	0.00394	0.001545	60	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-108D	0.005	0.0016	0.05	No	4	0.00415	0.0017	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-111D	0.005	0.0022	0.05	No	5	0.00444	0.001252	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-56	0.02912	0.003536	0.05	No	5	0.01412	0.008641	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No	7	0.004529	0.001247	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0016	0.05	No	6	0.00345	0.001706	50	None	No	0.0155	NP (normality)
Selenium (mg/L)	B-83	0.0295	0.009895	0.05	No	6	0.0197	0.007137	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.003306	0.001194	0.05	No	5	0.00308	0.001289	20	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	B-93	0.036	0.0063	0.05	No	5	0.01556	0.0123	0	None	No	0.031	NP (selected)
Selenium (mg/L)	DGWC-10	0.05073	0.02131	0.05	No	15	0.03602	0.02171	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0017	0.05	No	17	0.003994	0.00221	58.82	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004335	0.001931	0.05	No	15	0.00442	0.002391	20	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-14	0.01	0.0016	0.05	No	16	0.004062	0.002277	62.5	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	16	0.005112	0.001528	93.75	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.008991	0.006416	0.05	No	16	0.007856	0.002312	12.5	None	ln(x)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.008721	0.005441	0.05	No	16	0.007081	0.002521	12.5	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0053	0.0037	0.05	No	16	0.005062	0.001593	43.75	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06568	0.03434	0.05	No	16	0.05001	0.02408	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	16	0.004794	0.000825	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	15	0.00476	0.0009295	93.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01246	0.004865	0.05	No	16	0.008662	0.005836	12.5	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.006784	0.0028	0.05	No	16	0.005769	0.00318	18.75	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.04184	0.008956	0.05	No	15	0.03077	0.04124	6.667	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.0069	0.0028	0.05	No	15	0.004613	0.002068	53.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-9	0.1254	0.0492	0.05	No	16	0.08729	0.05853	0	None	No	0.01	Param.
Thallium (mg/L)	B-56	0.0003386	0.0001454	0.002	No	5	0.000242	0.00005762	0	None	No	0.01	Param.
Thallium (mg/L)	B-82	0.001	0.000099	0.002	No	6	0.0007015	0.0004624	66.67	None	No	0.0155	NP (NDs)
Thallium (mg/L)	B-83	0.001	0.000072	0.002	No	6	0.0008453	0.0003789	83.33	None	No	0.0155	NP (NDs)
Thallium (mg/L)	B-88	0.001	0.0002	0.002	No	5	0.00084	0.0003578	80	None	No	0.031	NP (NDs)
Thallium (mg/L)	DGWC-10	0.0006	0.00034	0.002	No	15	0.00048	0.0002241	13.33	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.00009	0.002	No	17	0.0006275	0.0004591	58.82	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00017	0.002	No	16	0.0004356	0.0003933	31.25	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.00059	0.00049	0.002	No	16	0.0005456	0.0001339	6.25	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.0009559	0.0005248	0.002	No	16	0.0009456	0.0004827	31.25	Kaplan-Meier	ln(x)	0.01	Param.
Thallium (mg/L)	DGWC-22	0.001	0.00007	0.002	No	16	0.0007084	0.0004467	68.75	Kaplan-Meier	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	15	0.0009382	0.0002394	93.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00009	0.002	No	16	0.0007712	0.0004093	75	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00036	0.0002	0.002	No	16	0.0003469	0.0002599	12.5	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.00008	0.002	No	16	0.0007129	0.0004399	68.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.0002	0.002	No	15	0.0008227	0.0003682	80	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	15	0.0003753	0.0003274	20	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.001	0.00043	0.002	No	16	0.0007213	0.0002474	37.5	None	No	0.01	NP (normality)

# Appendix IV Trend Tests - Confidence Interval Exceedances - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:40 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	DGWA-70A (bg)	-0.0006268	-63	-58	Yes	16	50	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-48	-0.0004126	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-53 (bg)	-0.004889	-80	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-10	-0.02321	-66	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-47	-0.04583	-83	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-48	-0.04264	-102	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-8	-0.01326	-69	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-9	0.02338	78	58	Yes	16	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-53 (bg)	-0.6256	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-47	-0.006075	-72	-58	Yes	16	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-48	-0.006941	-80	-58	Yes	16	0	n/a	n/a	0.01	NP

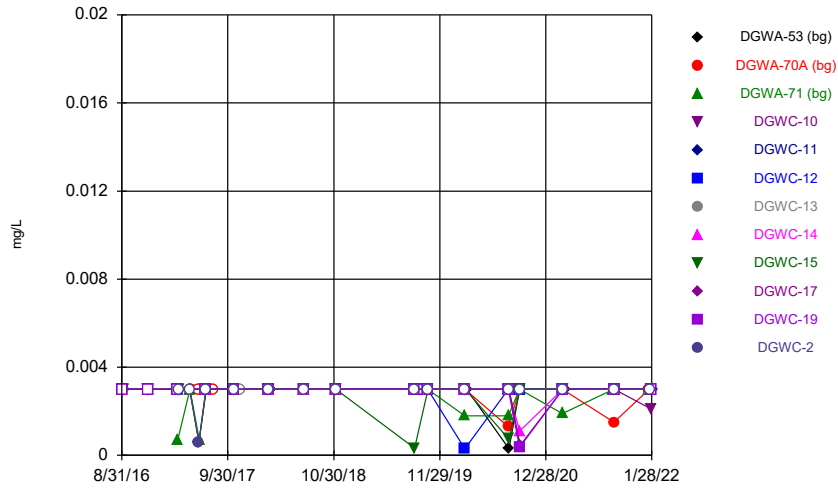
# Appendix IV Trend Tests - Confidence Interval Exceedances - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 4/13/2022, 4:40 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	DGWA-53 (bg)	0	6	58	No	16	62.5	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-70A (bg)	0	-17	-58	No	16	87.5	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-71 (bg)	0	23	53	No	15	80	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWC-9	0.0005672	5	58	No	16	6.25	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-53 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
<b>Beryllium (mg/L)</b>	<b>DGWA-70A (bg)</b>	<b>-0.0006268</b>	<b>-63</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>50</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Beryllium (mg/L)	DGWA-71 (bg)	-0.00001569	-32	-58	No	16	31.25	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-10	0.0006697	31	53	No	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-47	-0.001058	-57	-58	No	16	0	n/a	n/a	0.01	NP
<b>Beryllium (mg/L)</b>	<b>DGWC-48</b>	<b>-0.0004126</b>	<b>-66</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Beryllium (mg/L)	DGWC-5	0.0004175	31	53	No	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-9	0.0001047	23	58	No	16	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-92	-0.002989	-2	-8	No	4	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-93	0.003614	9	14	No	6	0	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-0.004889</b>	<b>-80</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	DGWA-70A (bg)	0	5	58	No	16	50	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-71 (bg)	0	20	53	No	15	66.67	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWC-10</b>	<b>-0.02321</b>	<b>-66</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	DGWC-19	-0.0002359	-17	-58	No	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-20	0.05164	35	58	No	16	0	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWC-47</b>	<b>-0.04583</b>	<b>-83</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-48</b>	<b>-0.04264</b>	<b>-102</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-8</b>	<b>-0.01326</b>	<b>-69</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-9</b>	<b>0.02338</b>	<b>78</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	B-104D	-0.07465	-4	-12	No	5	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-56	0.006064	7	12	No	5	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-63	-0.003301	-8	-14	No	6	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-93	-0.002296	-6	-14	No	6	0	n/a	n/a	0.01	NP
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>DGWA-53 (bg)</b>	<b>-0.6256</b>	<b>-62</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Combined Radium 226 + 228 (pCi/L)	DGWA-70A (bg)	0.04334	12	63	No	17	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-71 (bg)	0.0095	5	58	No	16	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
Combined Radium 226 + 228 (pCi/L)	B-109D	3.172	2	8	No	4	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-53 (bg)	-0.00009951	-11	-58	No	16	6.25	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-70A (bg)	0	18	58	No	16	81.25	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-71 (bg)	-0.0001223	-45	-53	No	15	20	n/a	n/a	0.01	NP
<b>Lithium (mg/L)</b>	<b>DGWC-47</b>	<b>-0.006075</b>	<b>-72</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Lithium (mg/L)</b>	<b>DGWC-48</b>	<b>-0.006941</b>	<b>-80</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

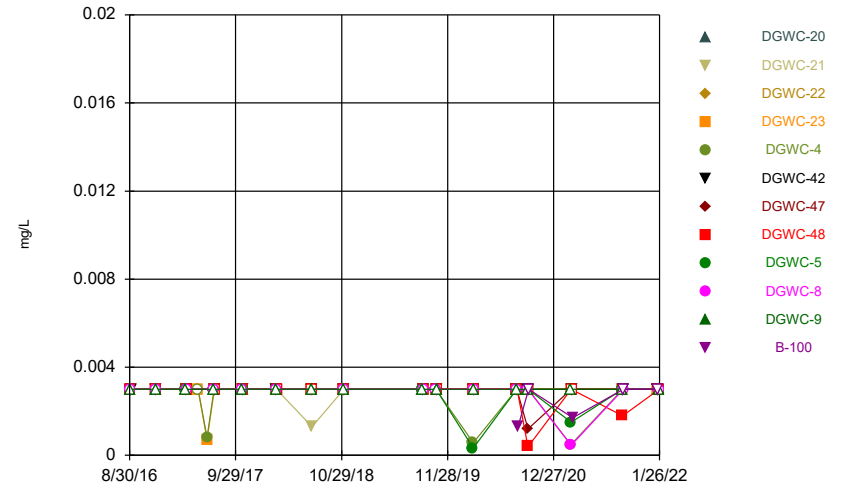
FIGURE A.

### Time Series



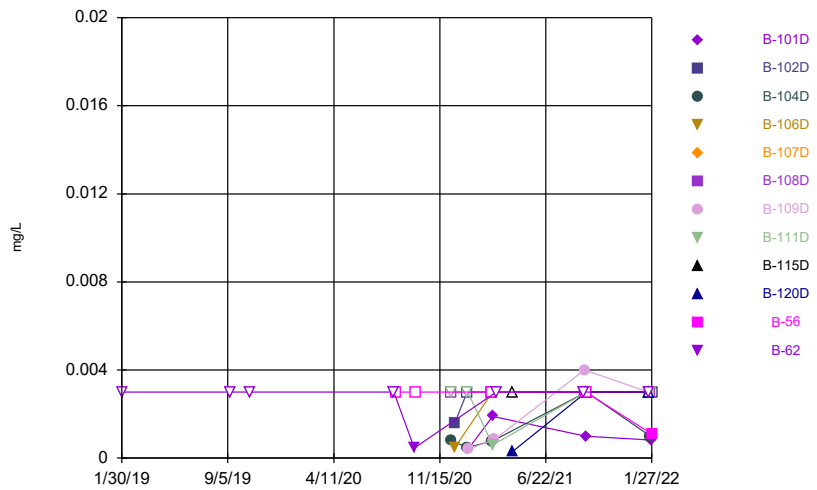
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



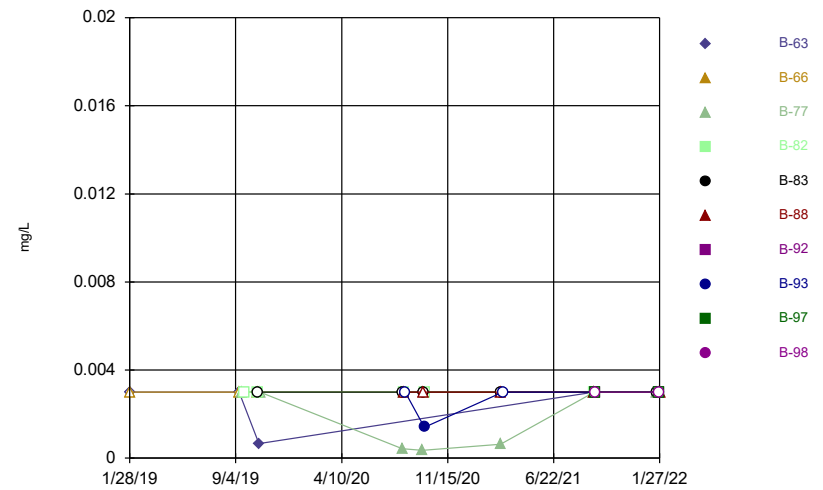
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



Constituent: Antimony Analysis Run 4/13/2022 4:11 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

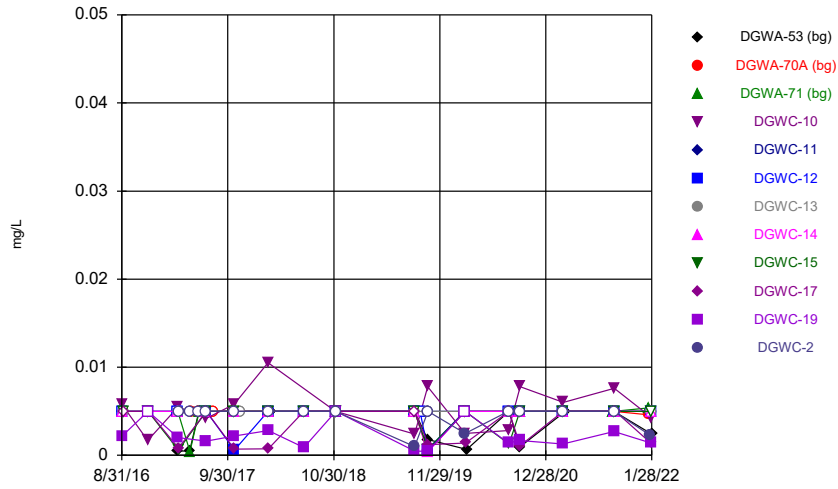
### Time Series



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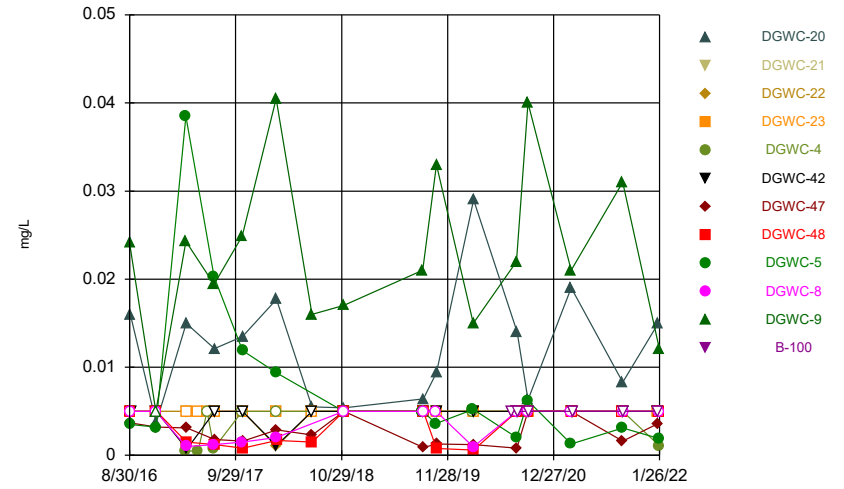


### Time Series



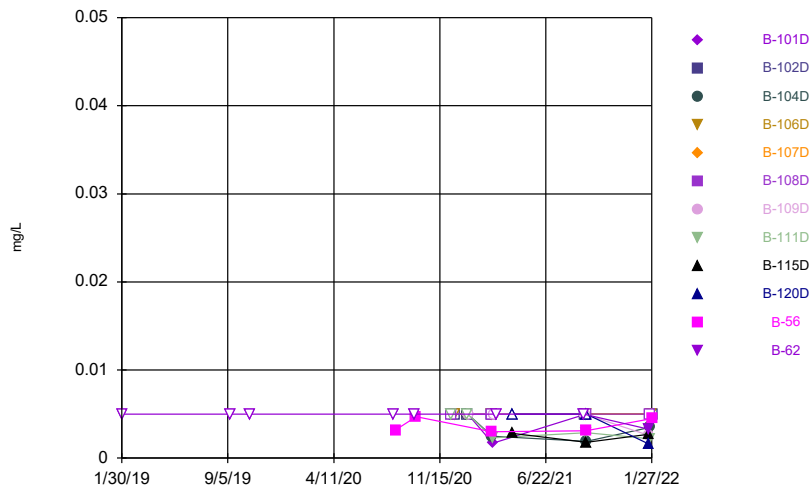
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



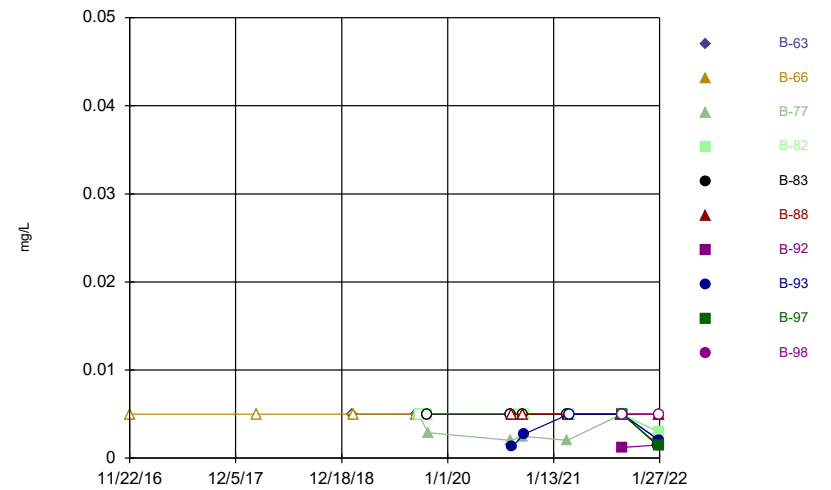
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### Time Series



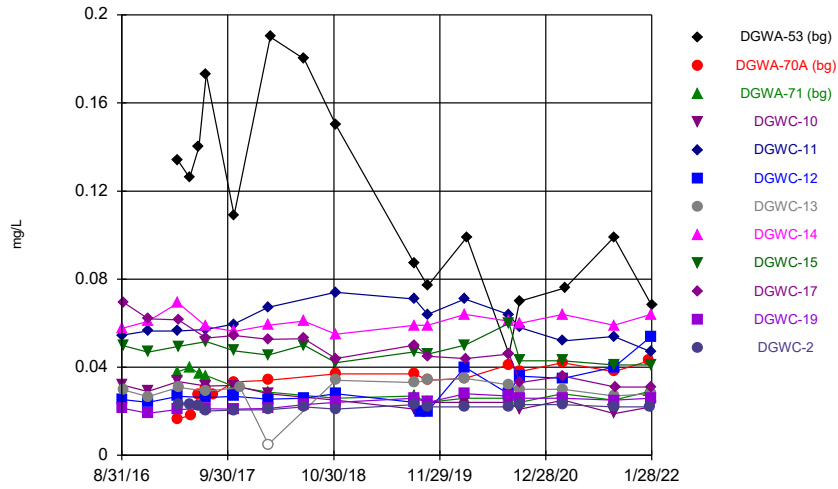
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### Time Series



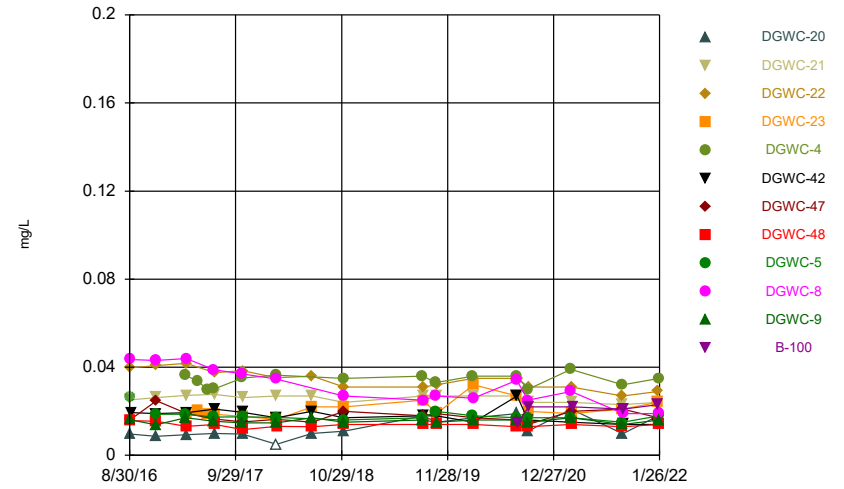
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Time Series



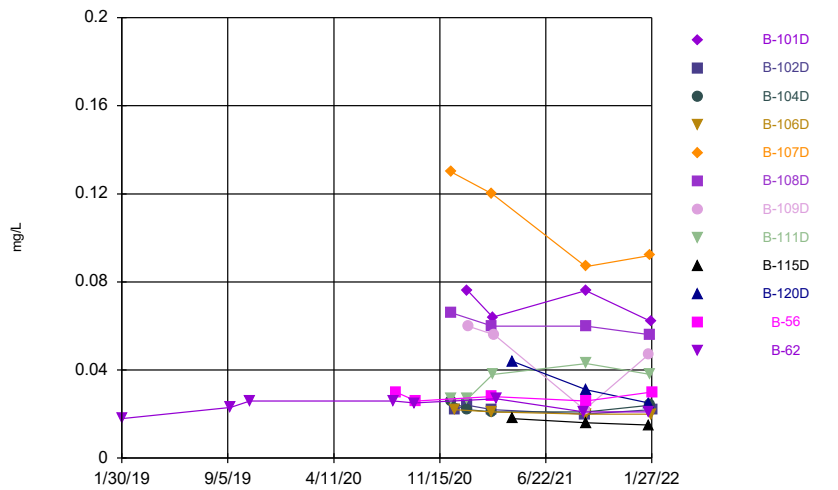
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Time Series



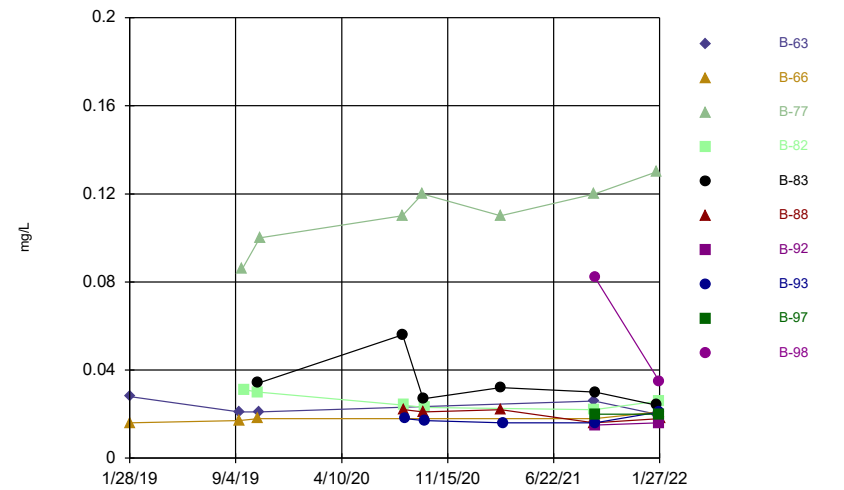
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Time Series



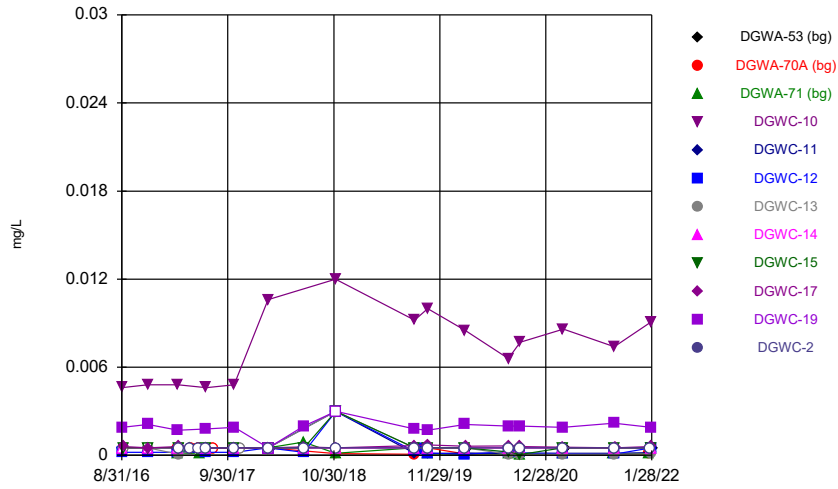
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Time Series



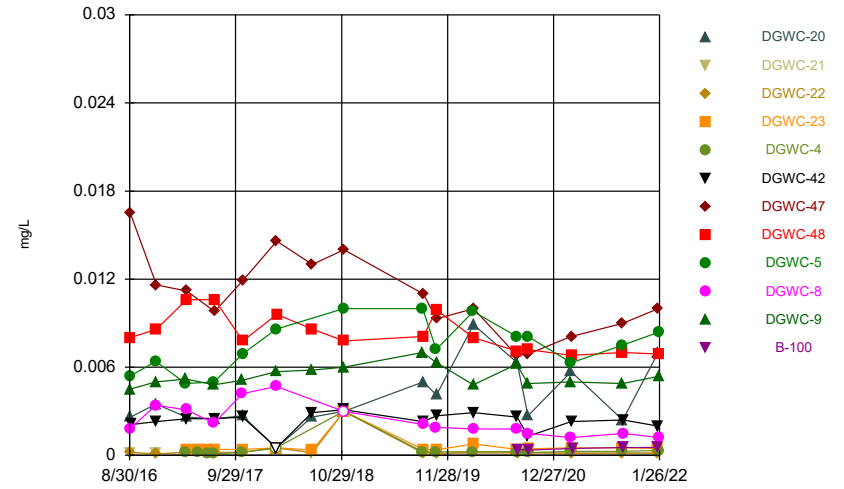
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Time Series



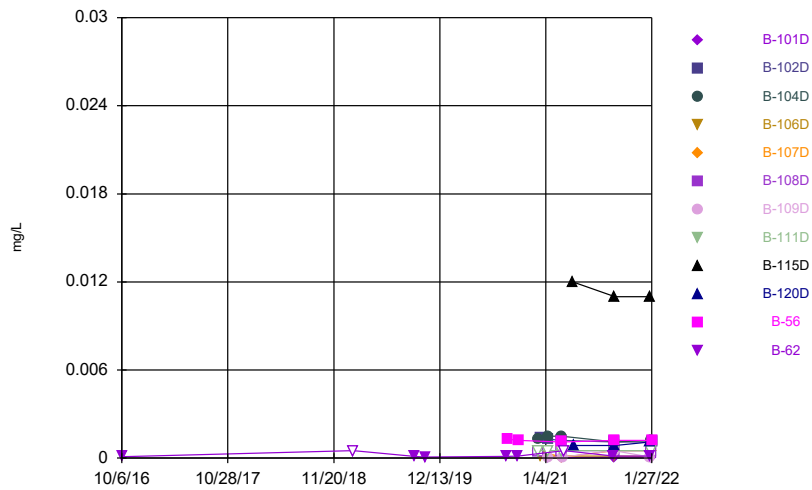
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Time Series



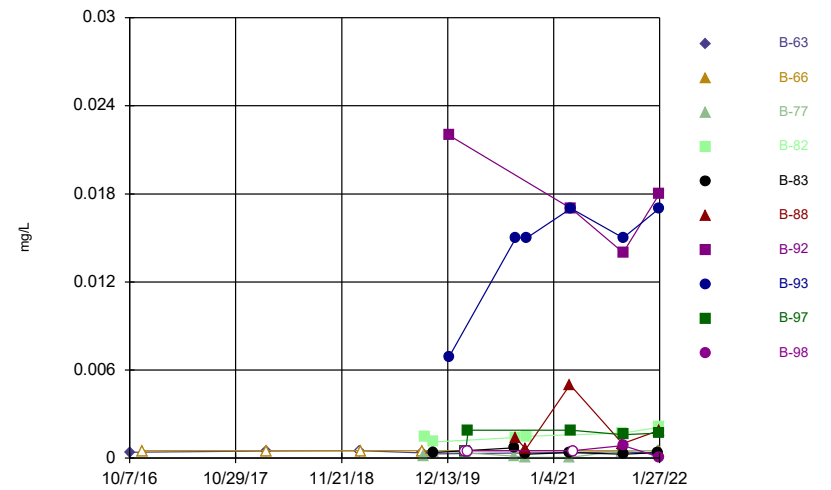
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Time Series



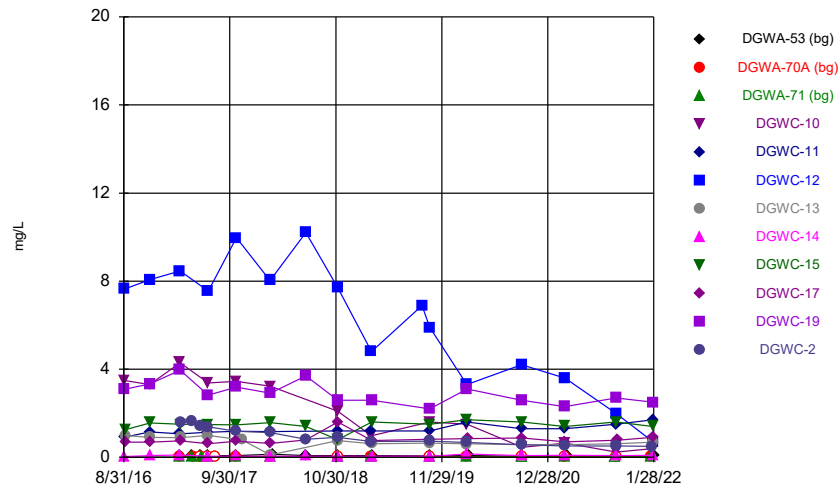
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Time Series



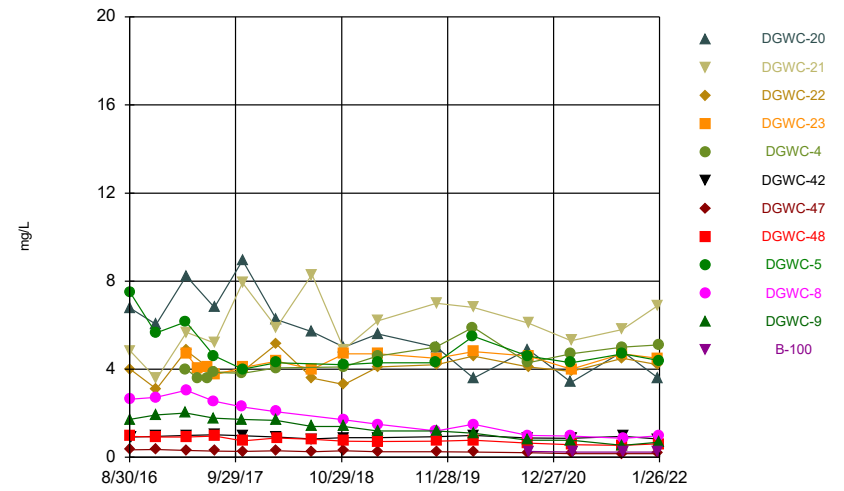
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



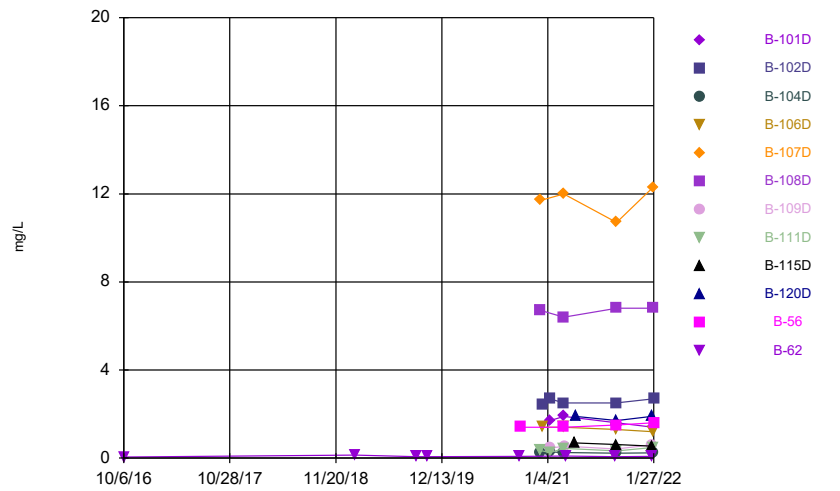
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



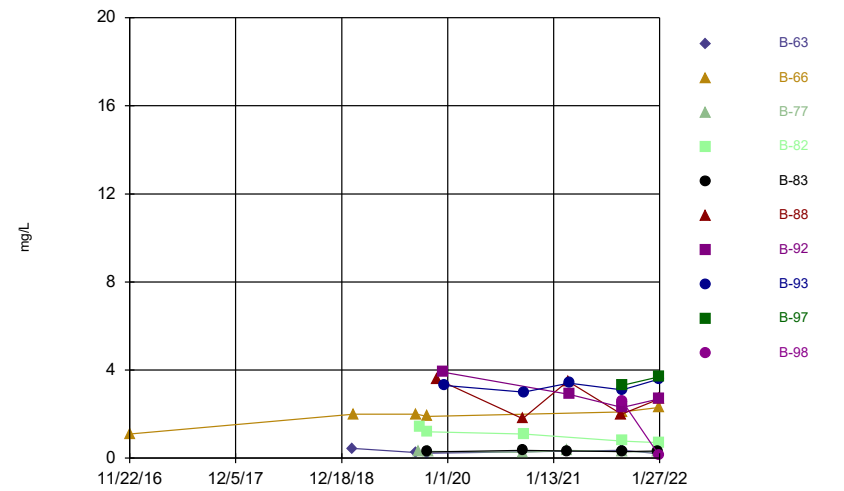
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



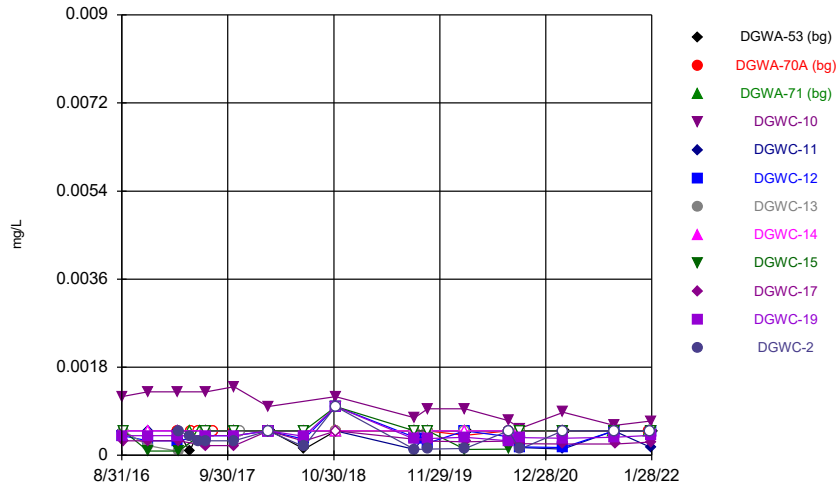
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



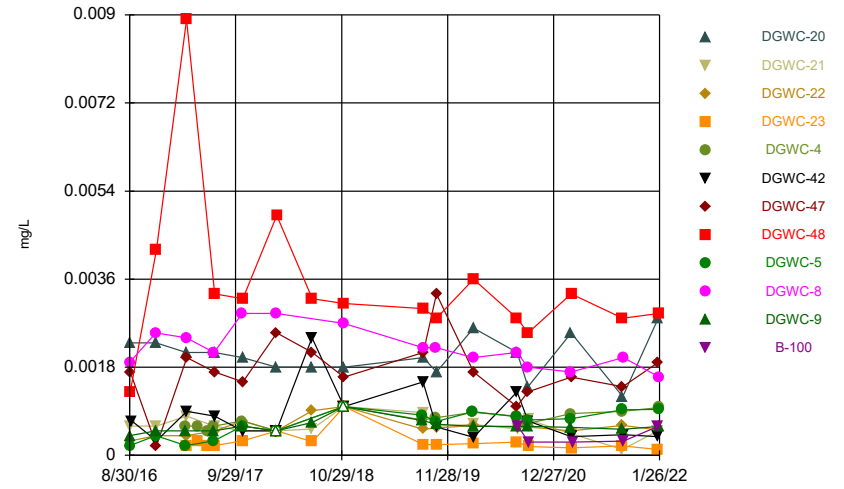
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



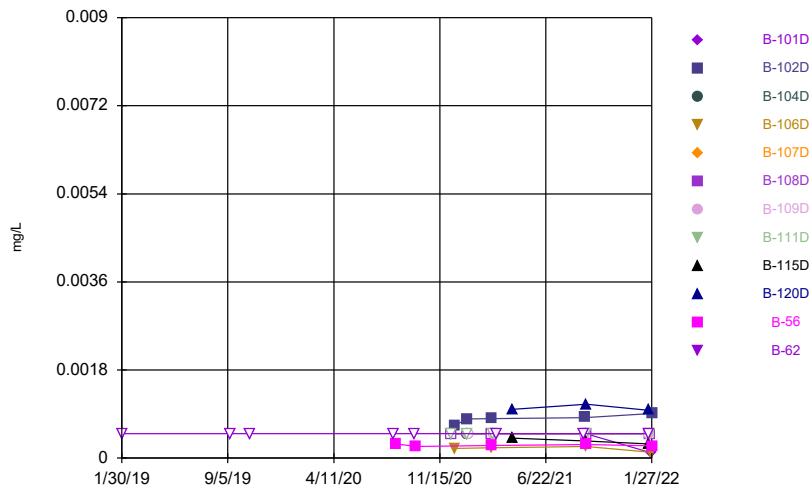
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



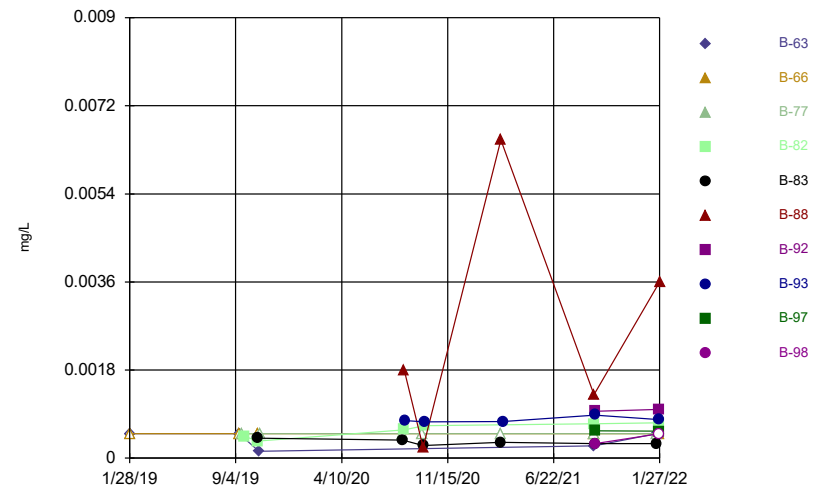
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



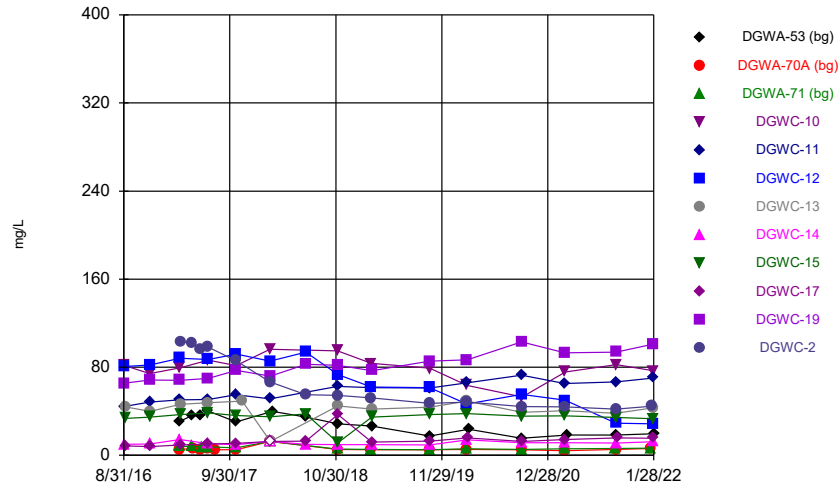
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



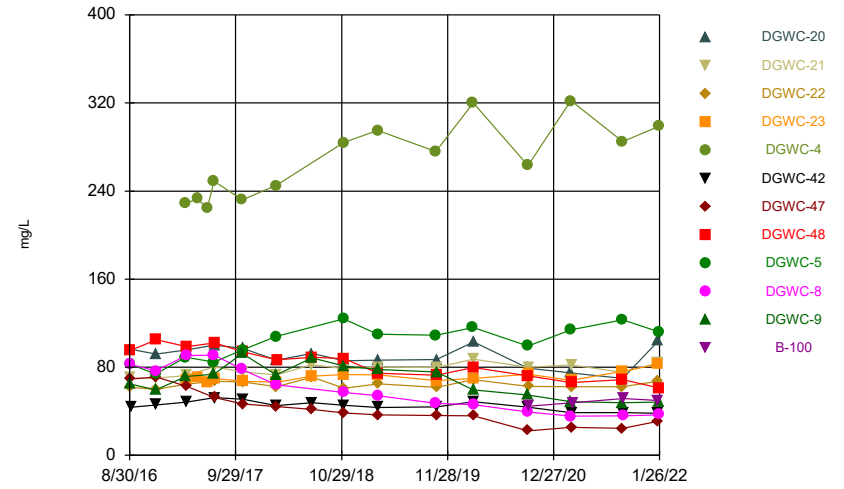
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Time Series



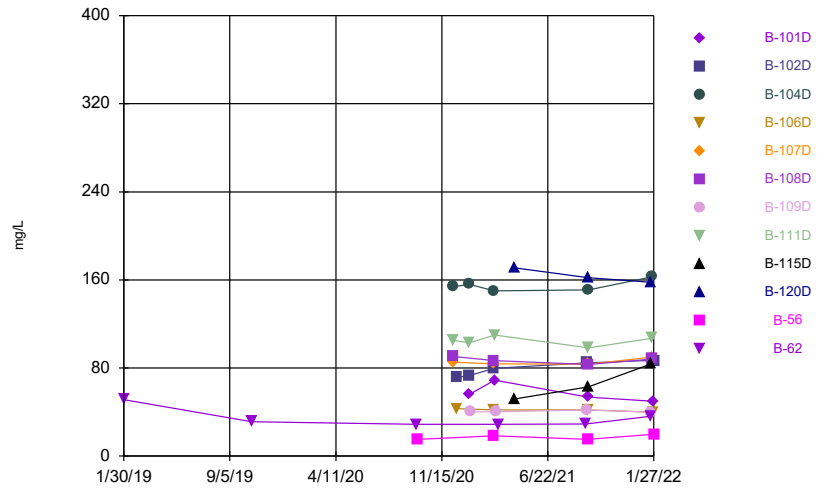
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 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



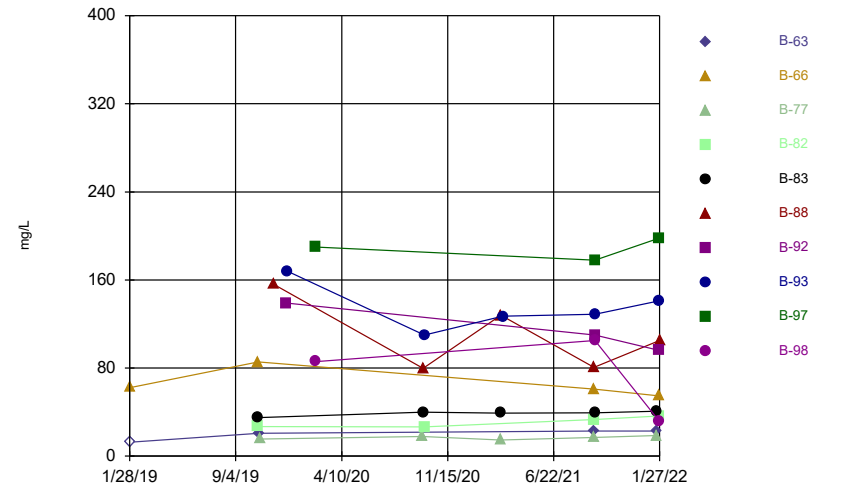
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 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



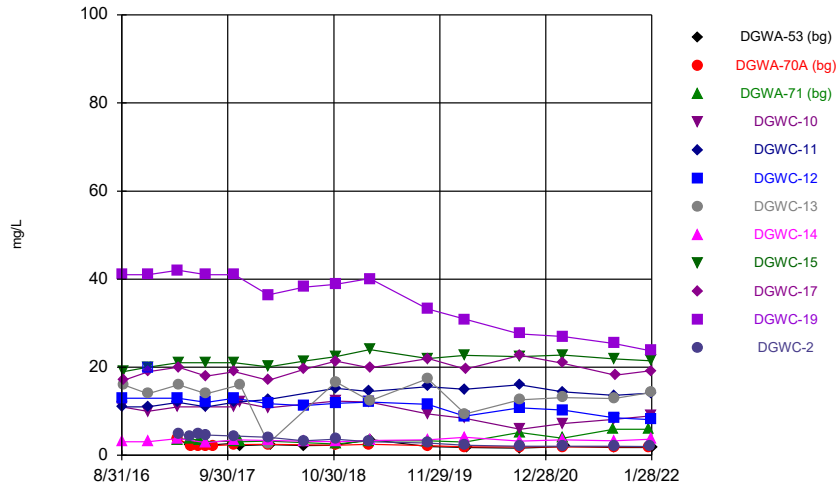
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Time Series



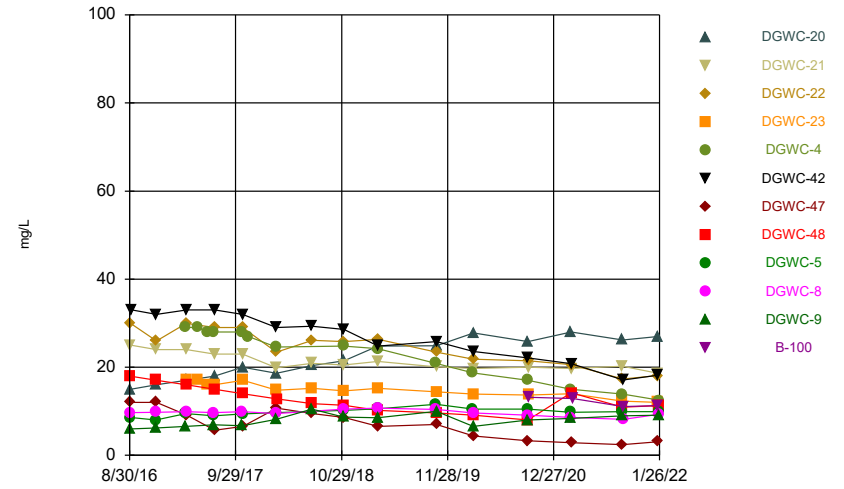
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### Time Series



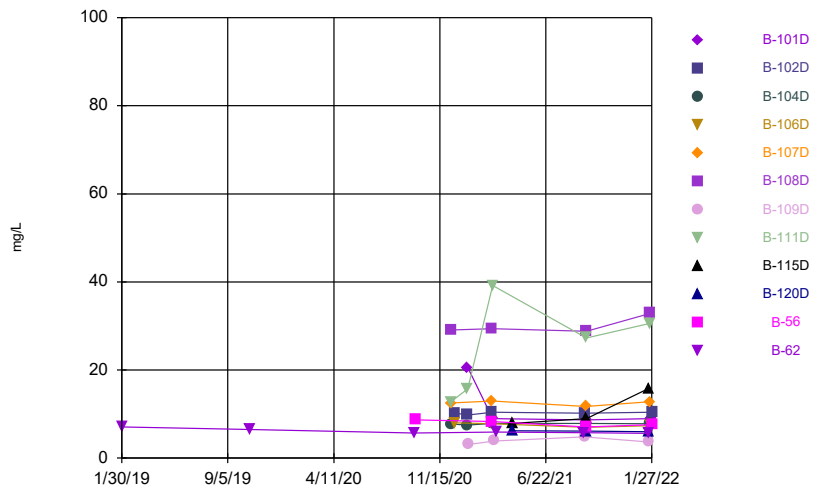
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### Time Series



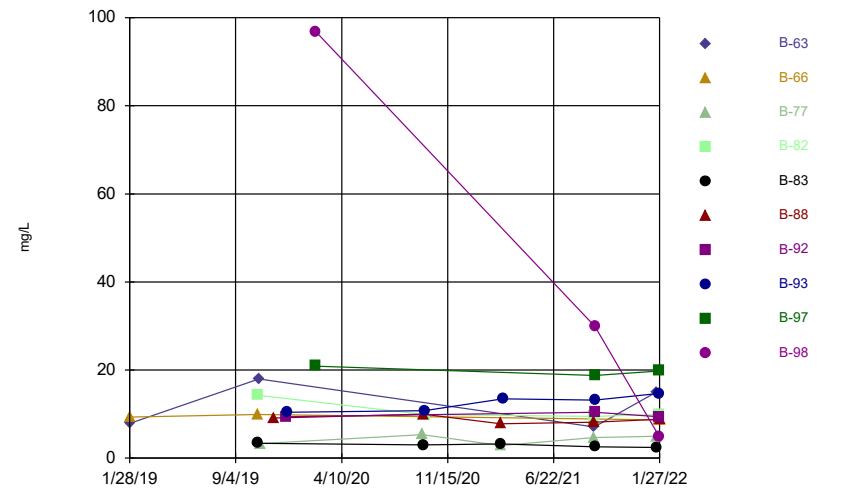
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### Time Series



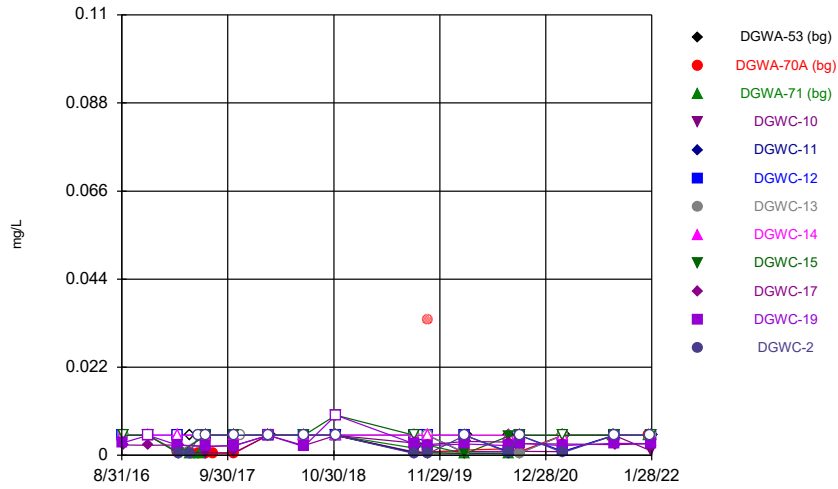
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### Time Series



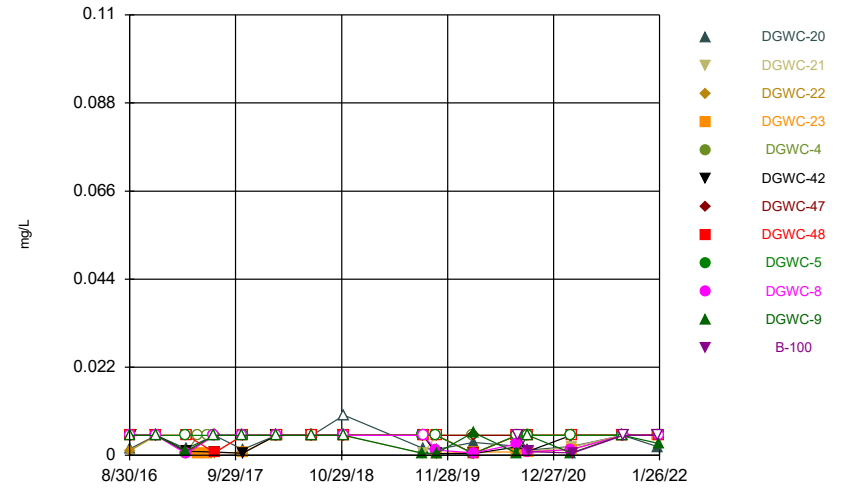
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### Time Series



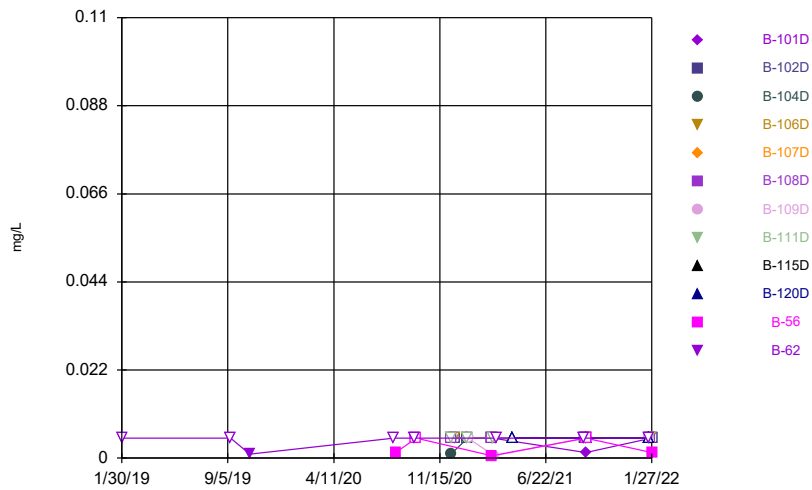
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### Time Series



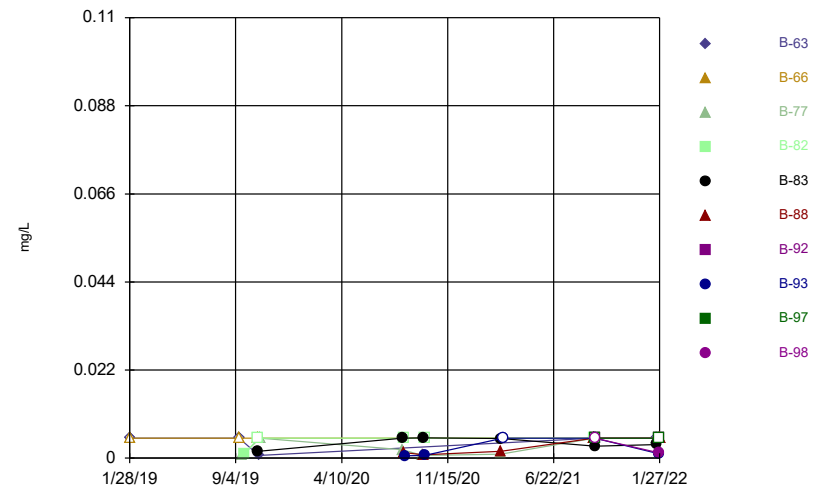
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Plant McDonough Client: Southern Company Data: McDonough AP

### Time Series



Constituent: Chromium Analysis Run 4/13/2022 4:11 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

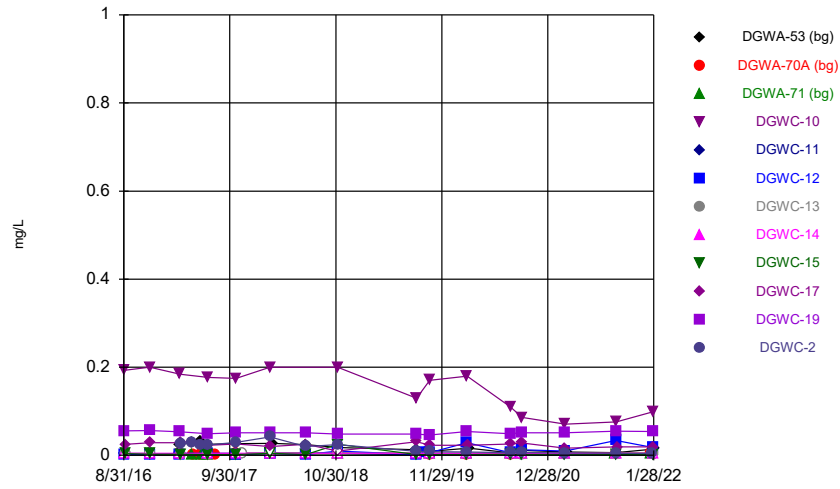
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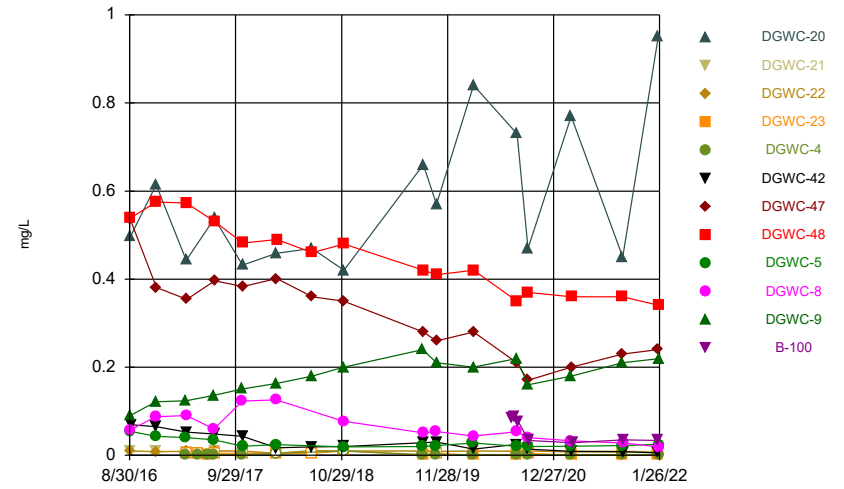


Time Series



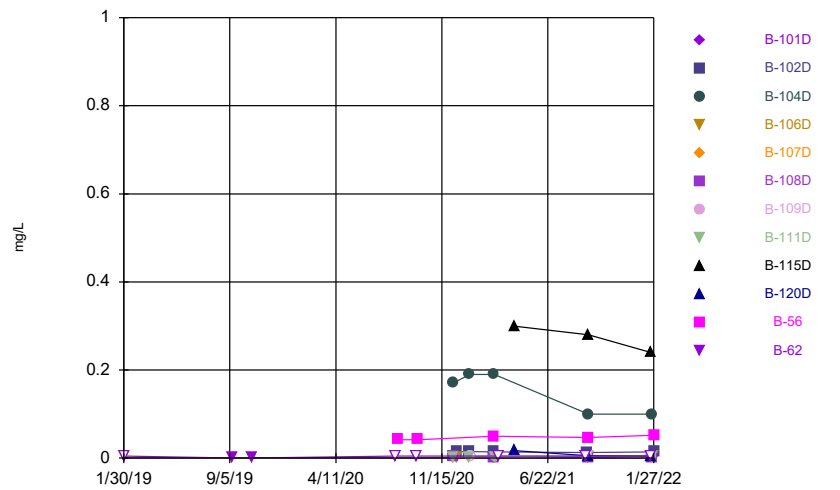
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Time Series



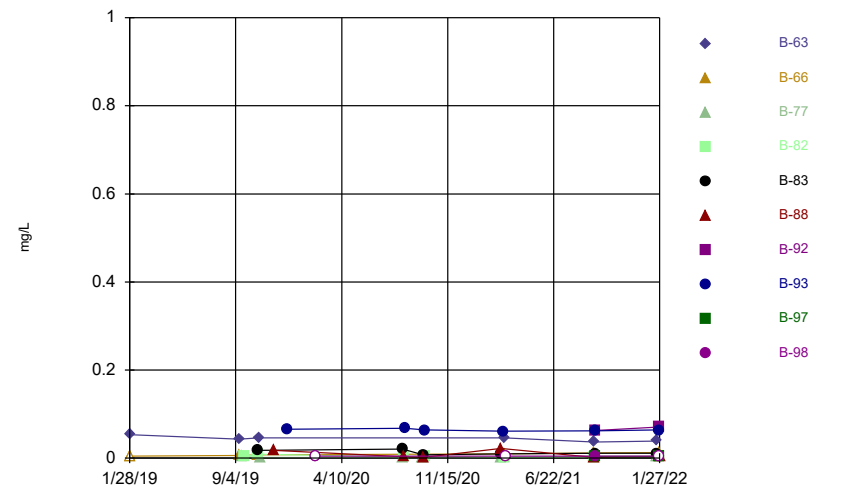
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Time Series



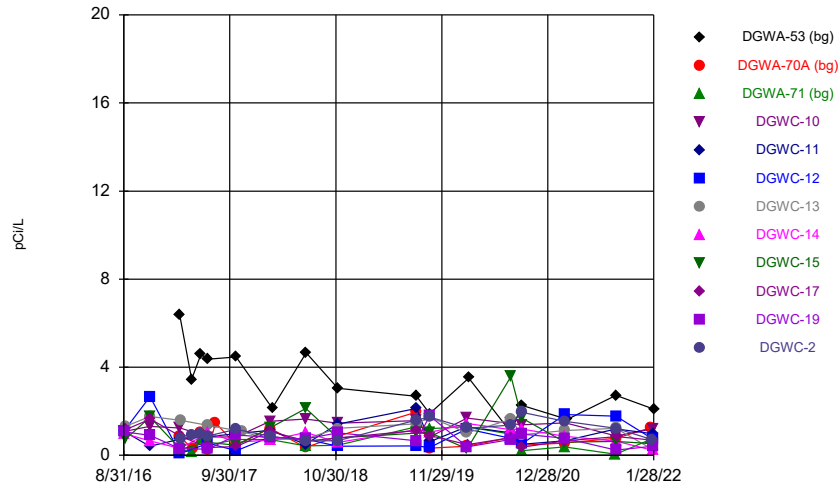
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Time Series



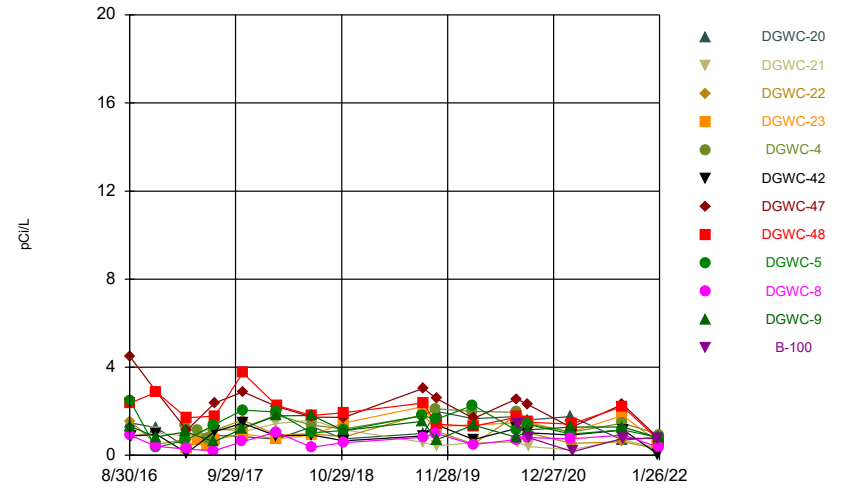
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Time Series



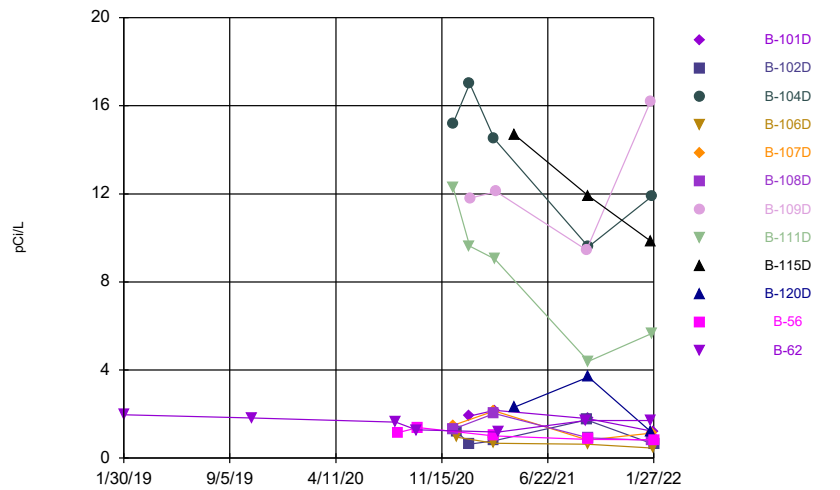
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Time Series



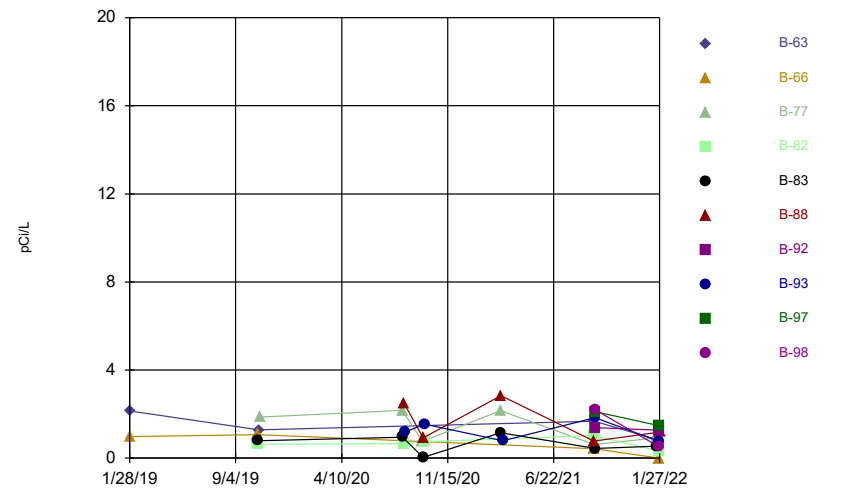
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Time Series



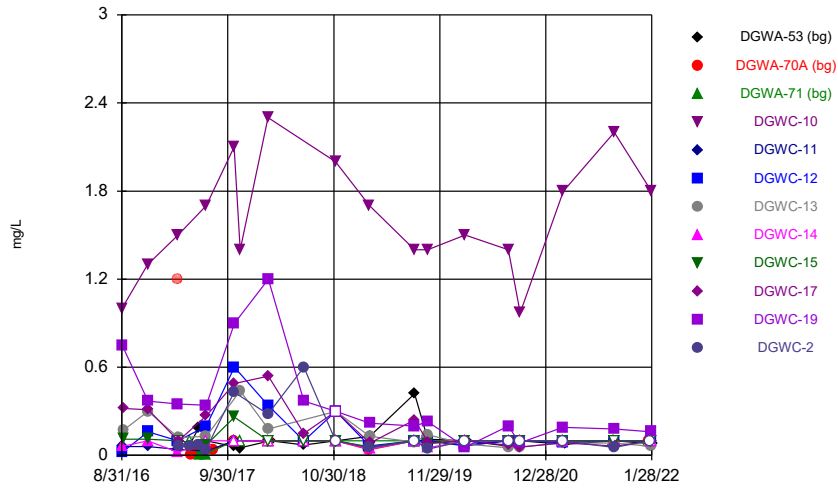
Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



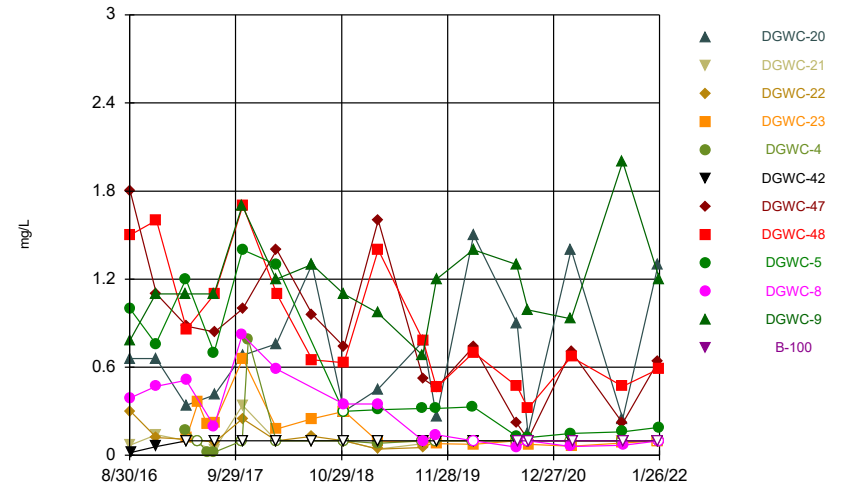
Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



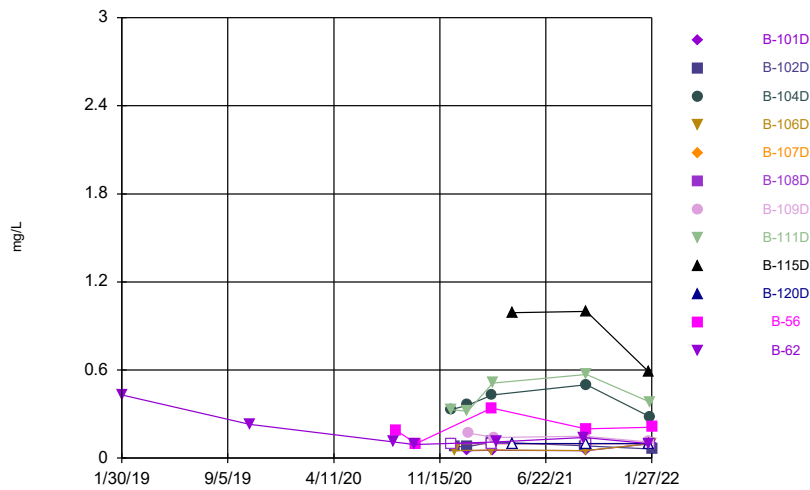
Constituent: Fluoride, total Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



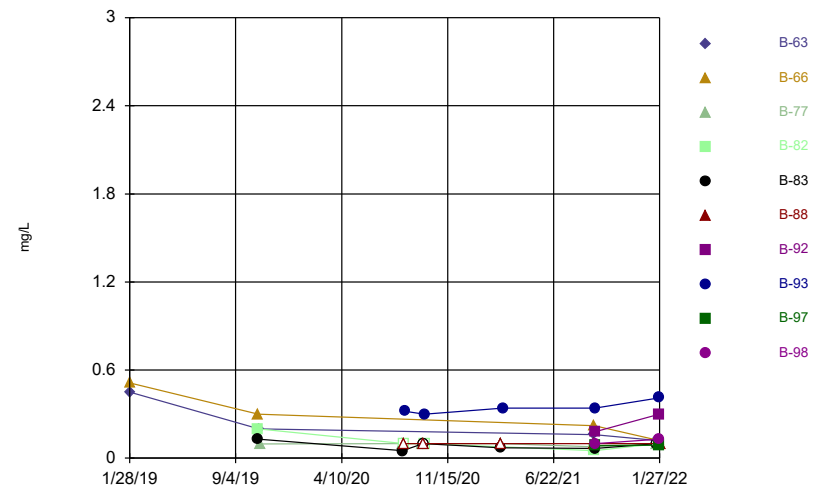
Constituent: Fluoride, total Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



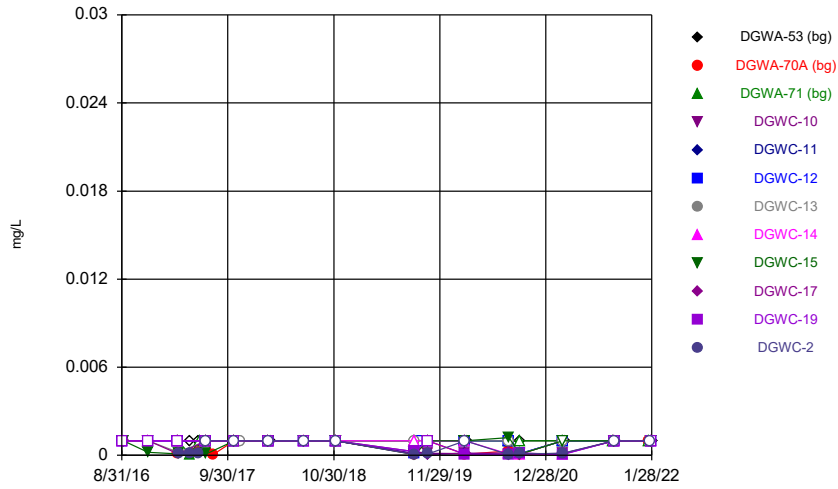
Constituent: Fluoride, total Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



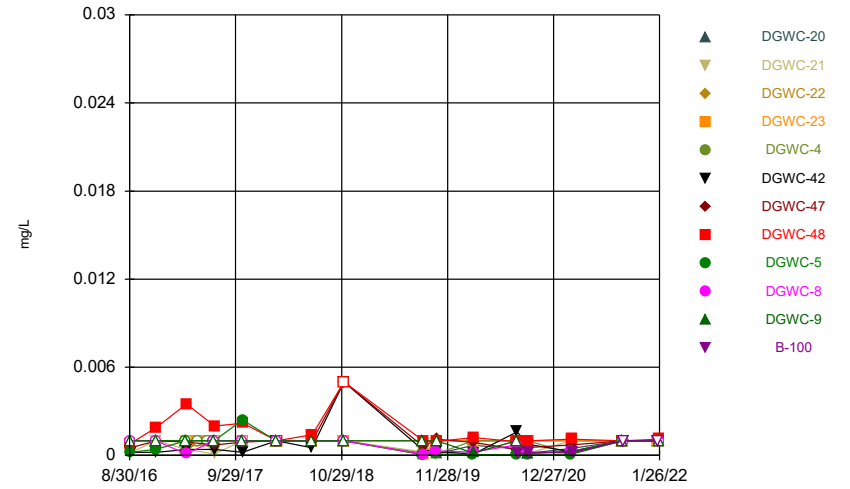
Constituent: Fluoride, total Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



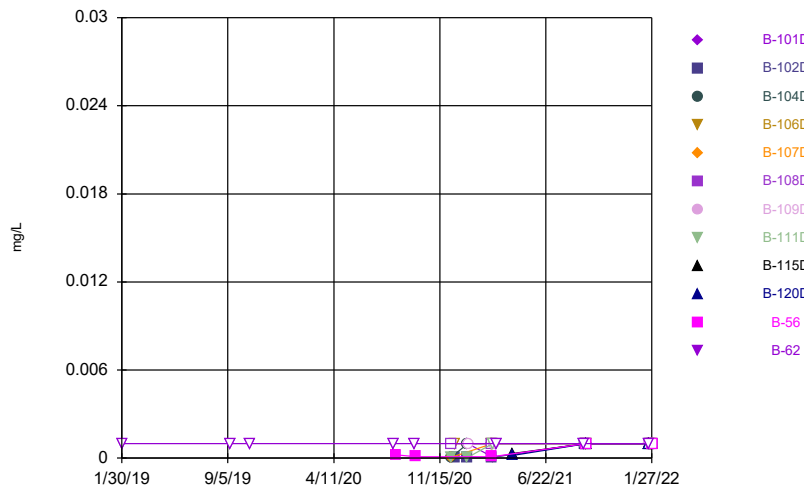
Constituent: Lead Analysis Run 4/13/2022 4:12 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



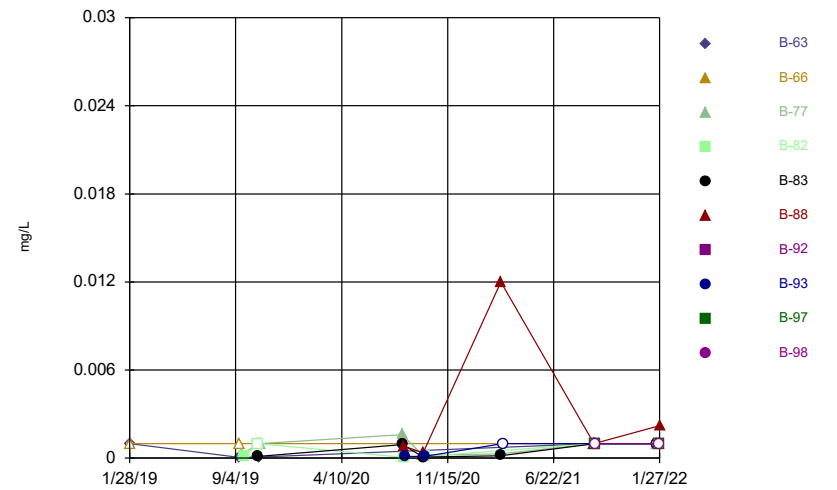
Constituent: Lead Analysis Run 4/13/2022 4:12 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



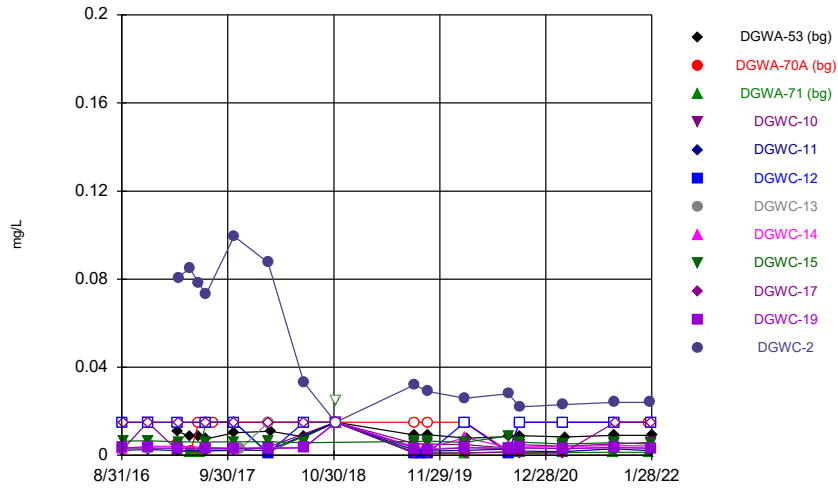
Constituent: Lead Analysis Run 4/13/2022 4:12 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



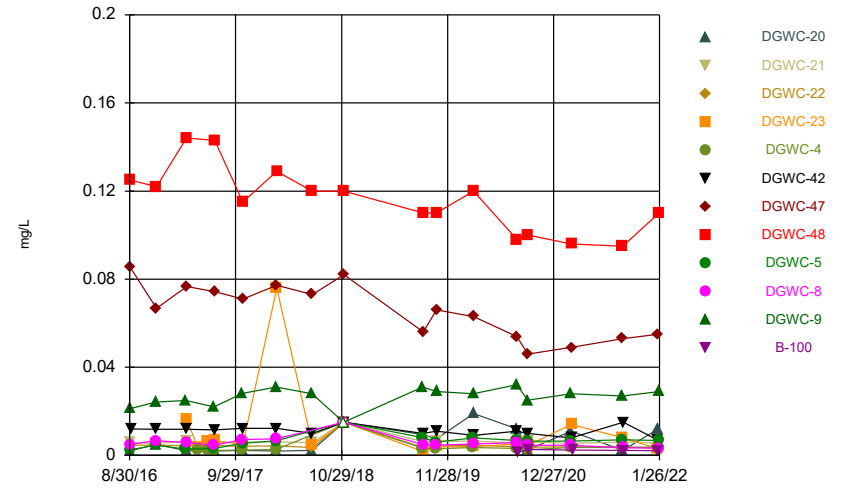
Constituent: Lead Analysis Run 4/13/2022 4:12 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



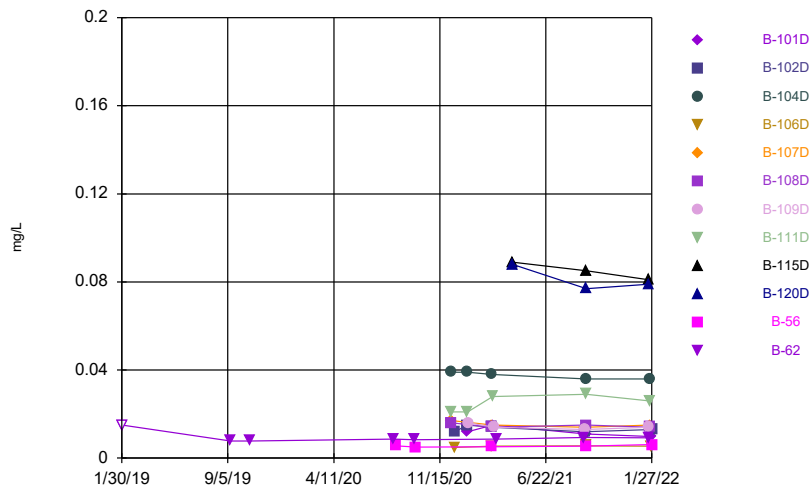
Constituent: Lithium Analysis Run 4/13/2022 4:12 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



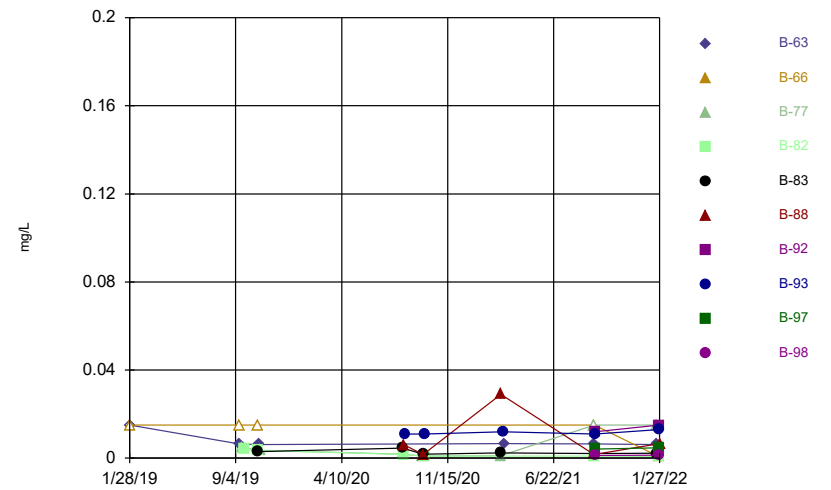
Constituent: Lithium Analysis Run 4/13/2022 4:12 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



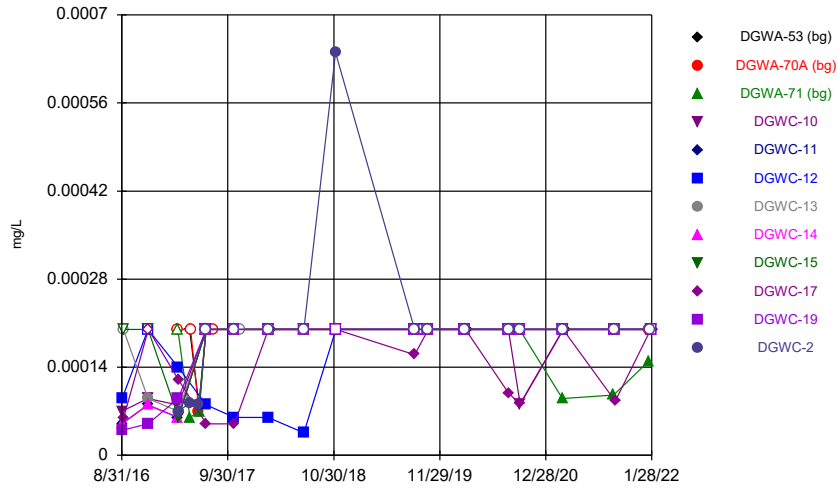
Constituent: Lithium Analysis Run 4/13/2022 4:12 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



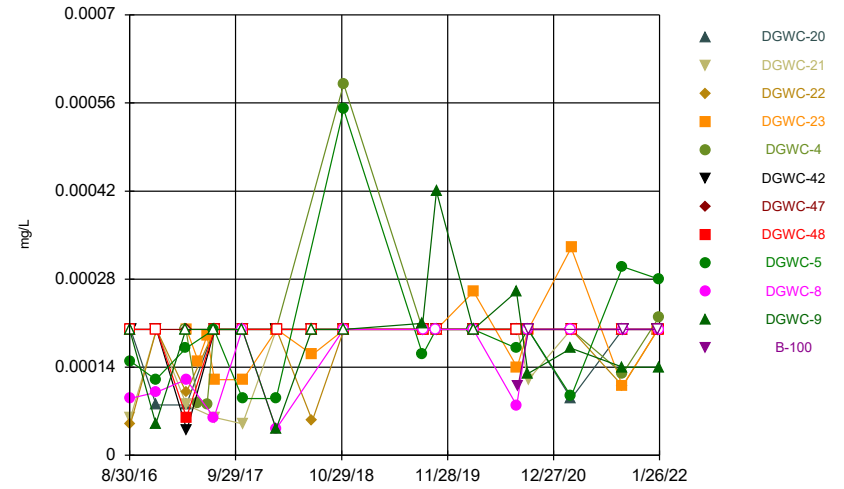
Constituent: Lithium Analysis Run 4/13/2022 4:12 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



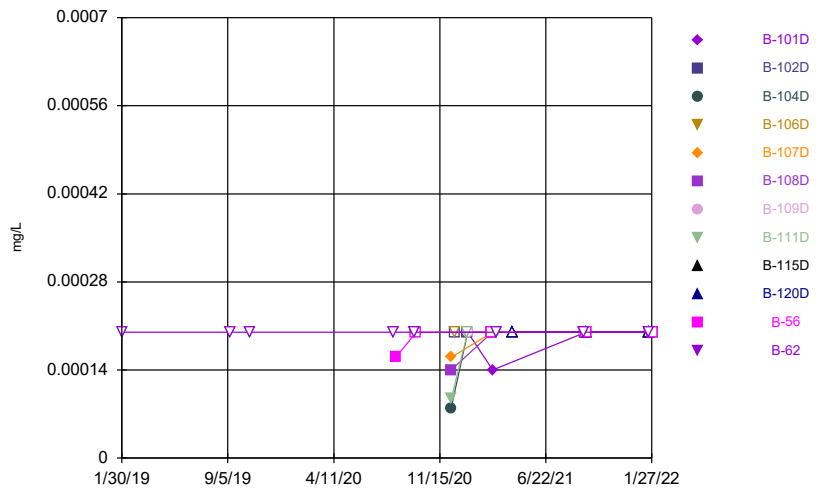
Constituent: Mercury Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



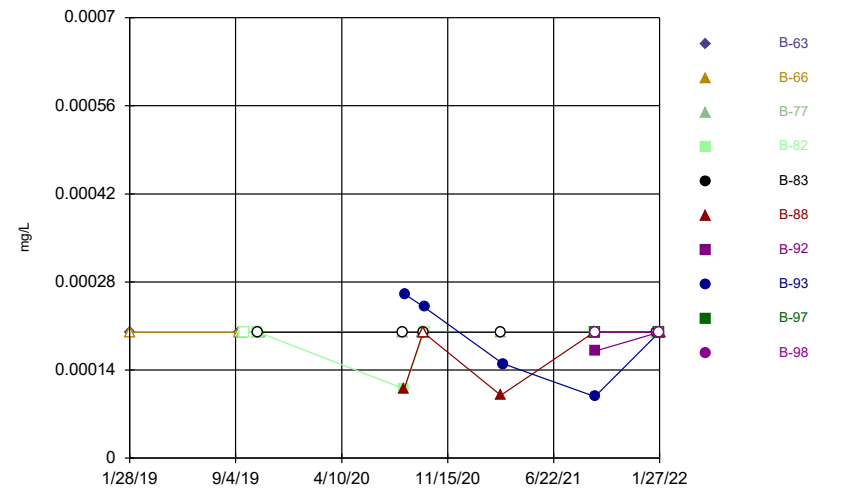
Constituent: Mercury Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



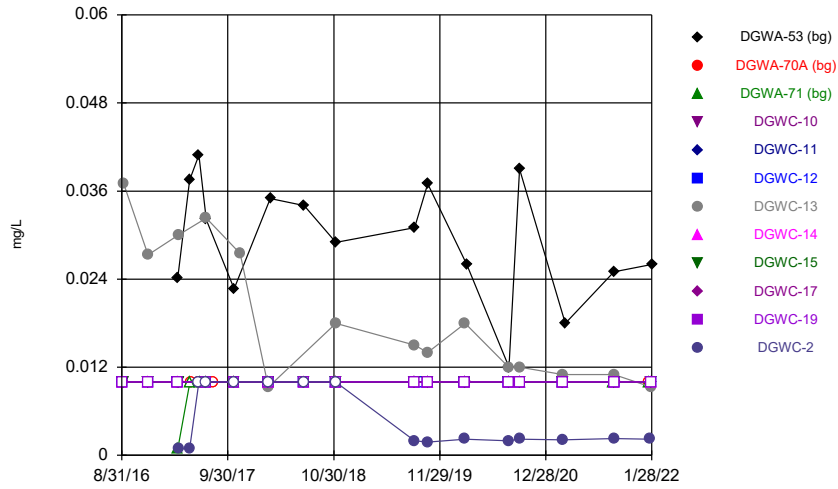
Constituent: Mercury Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



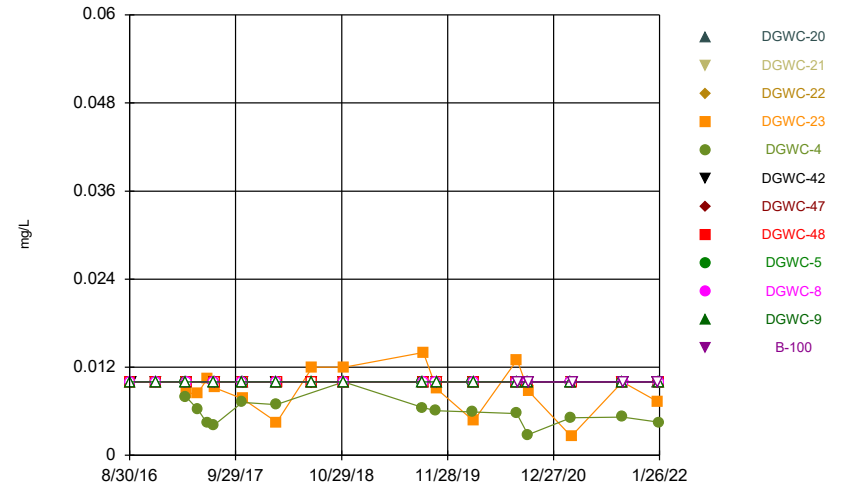
Constituent: Mercury Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



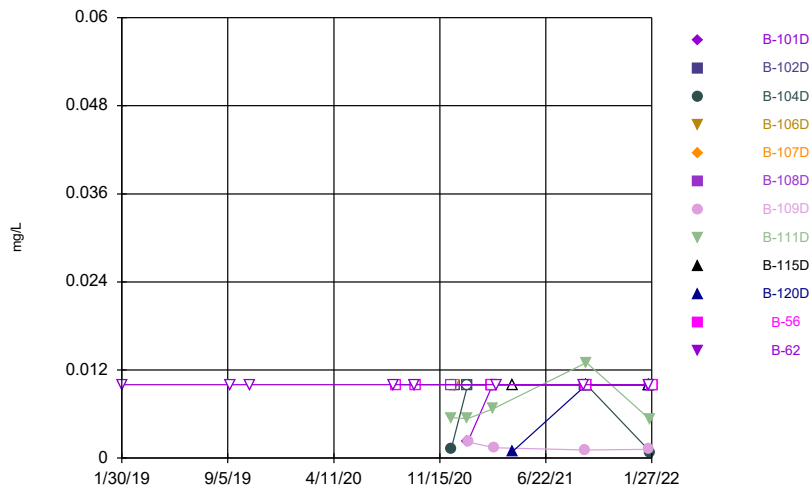
Constituent: Molybdenum Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



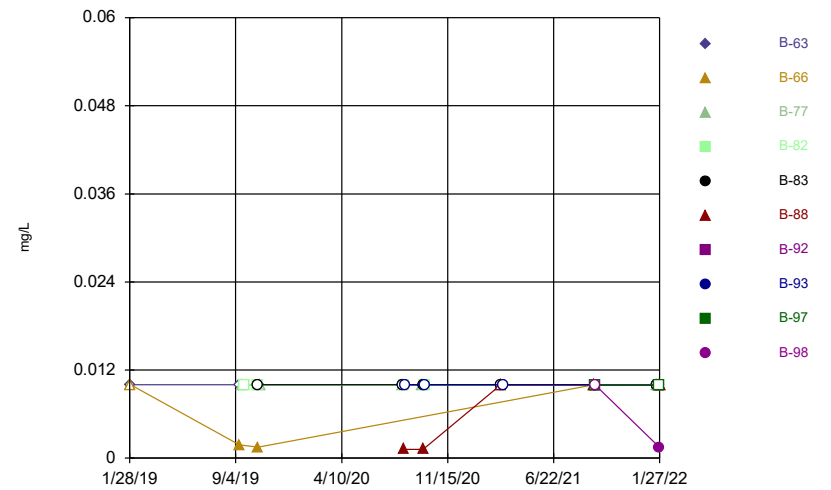
Constituent: Molybdenum Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



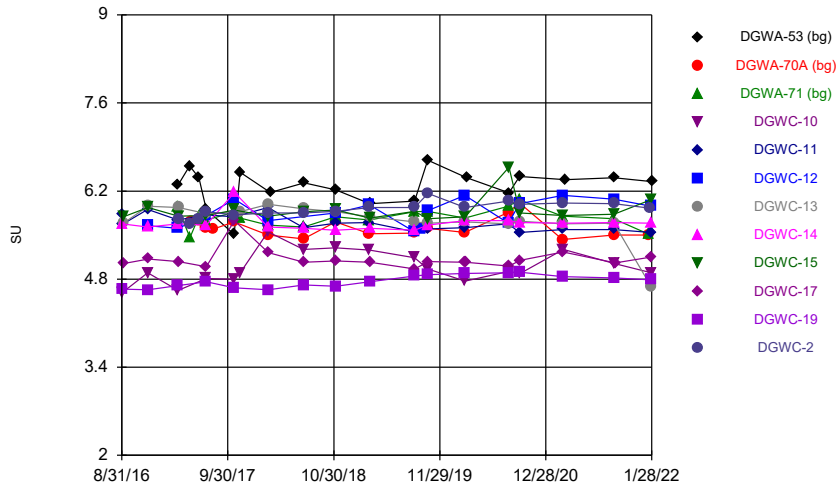
Constituent: Molybdenum Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



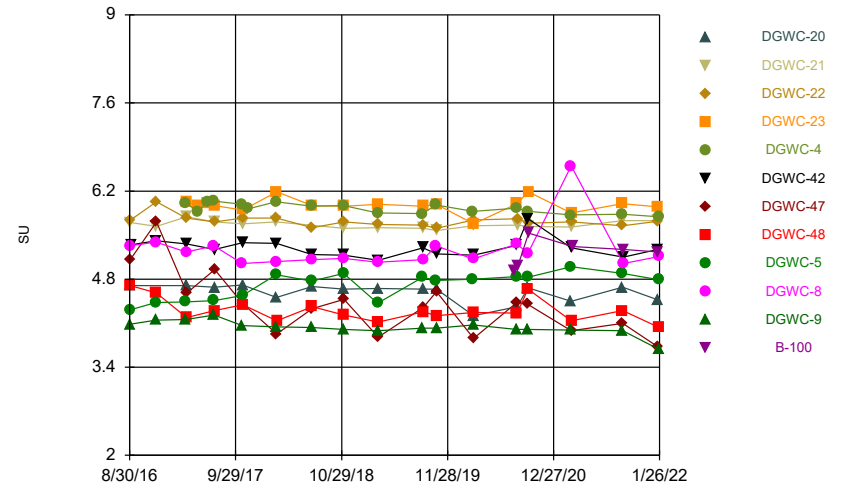
Constituent: Molybdenum Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



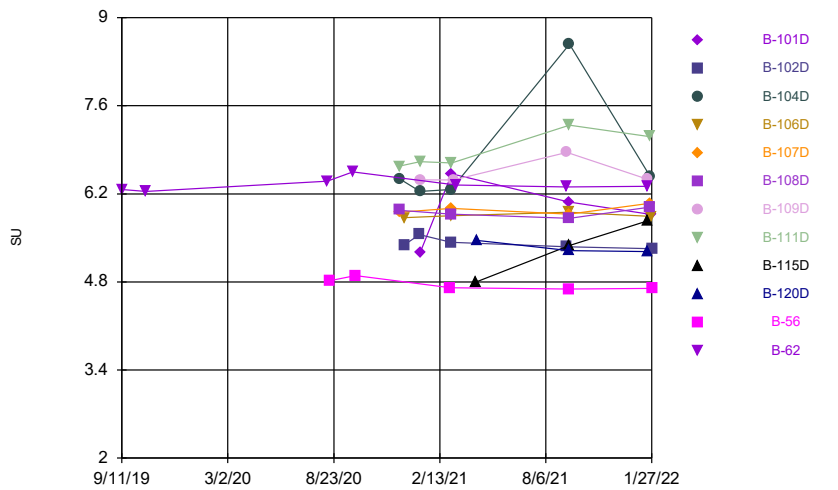
Constituent: pH, Field Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



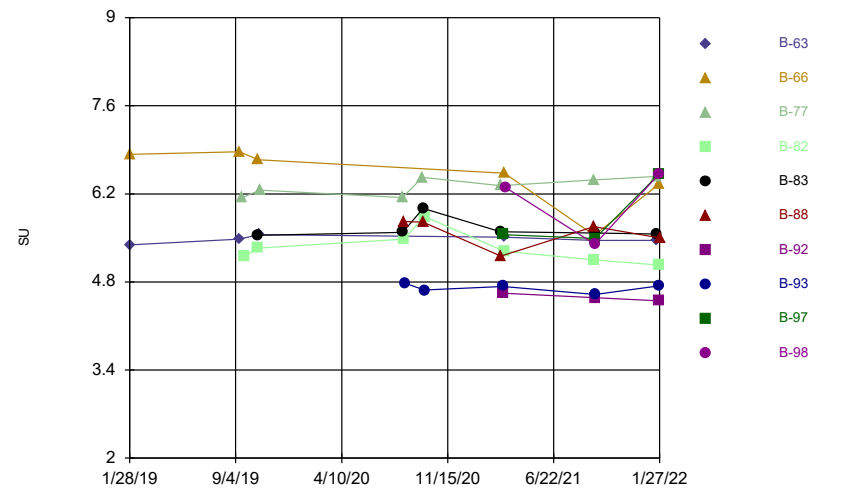
Constituent: pH, Field Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



Constituent: pH, Field Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

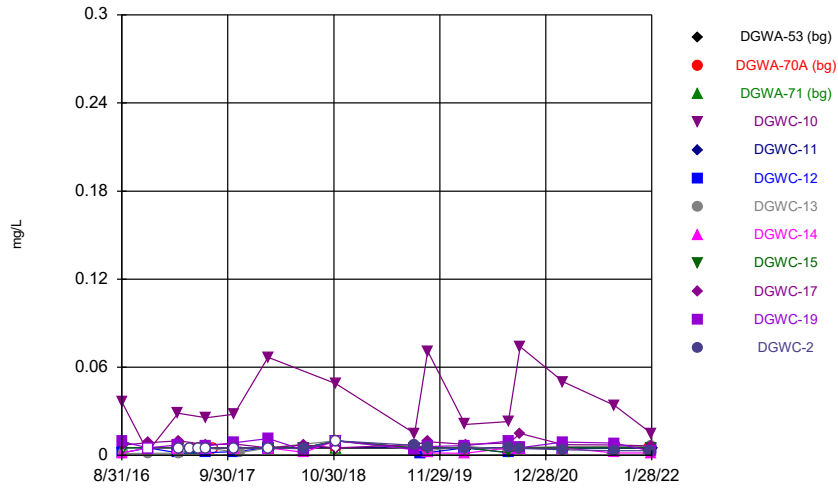
Time Series



Constituent: pH, Field Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

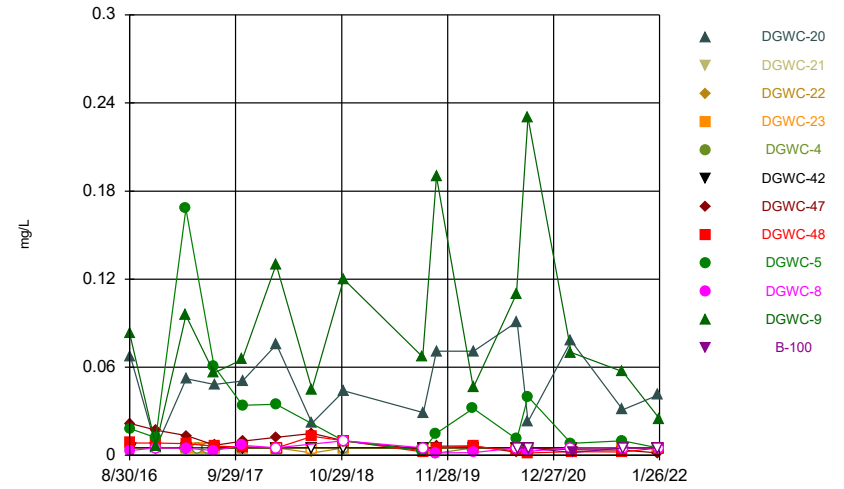


Time Series



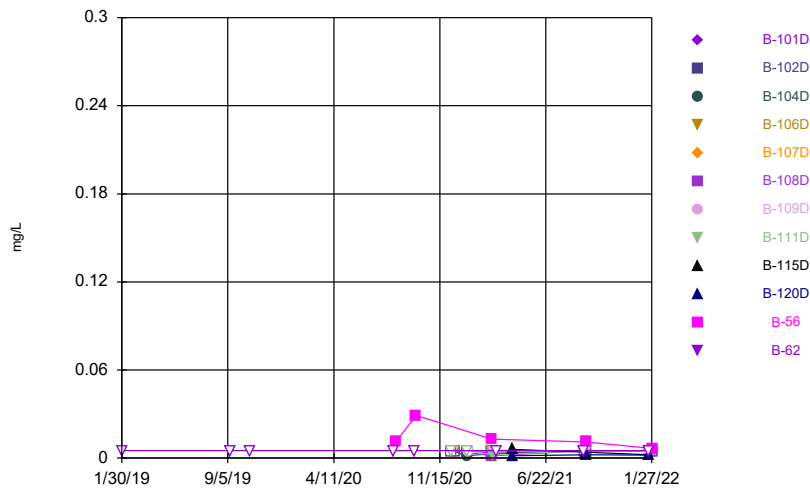
Constituent: Seleniun Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



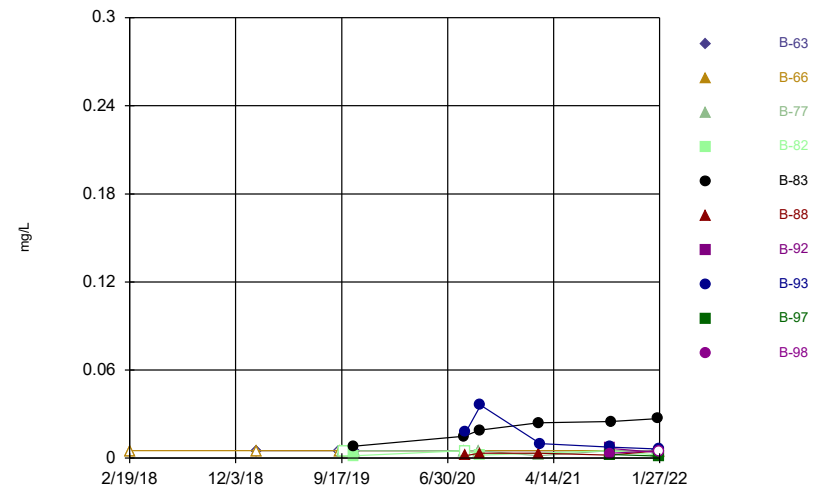
Constituent: Seleniun Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



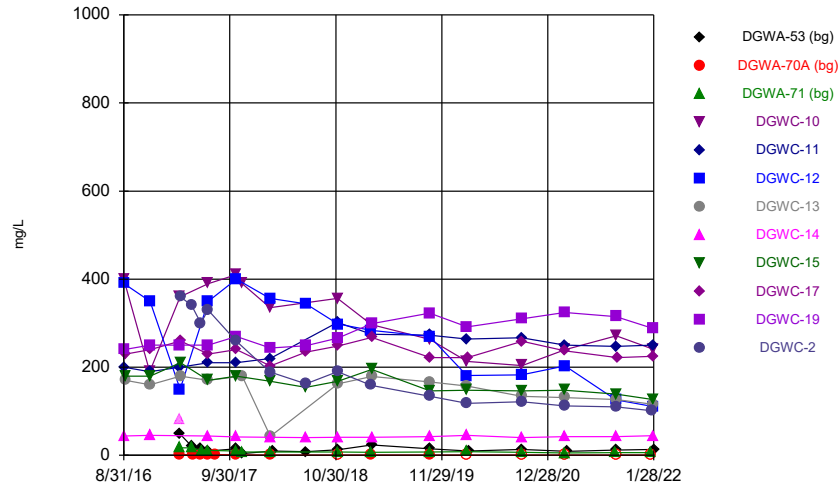
Constituent: Seleniun Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



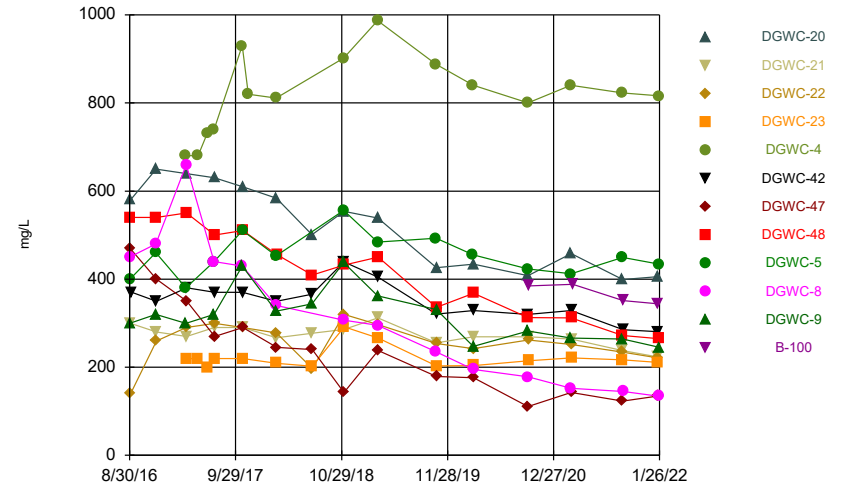
Constituent: Seleniun Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



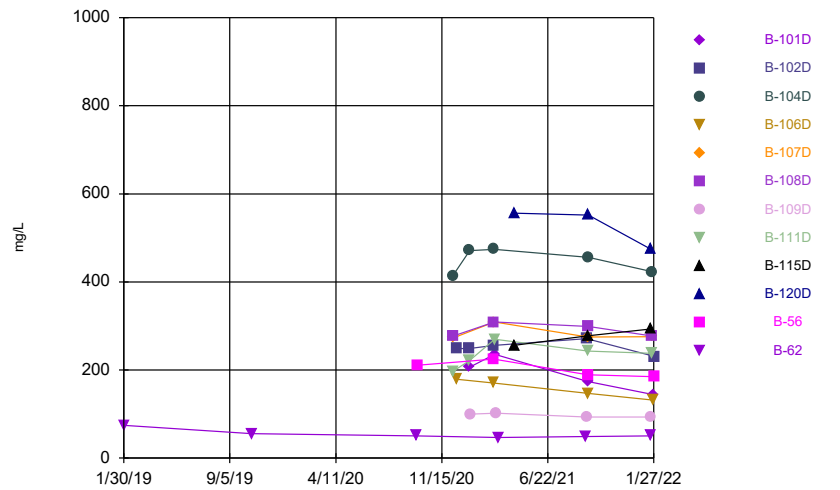
Constituent: Sulfate as SO4 Analysis Run 4/13/2022 4:12 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



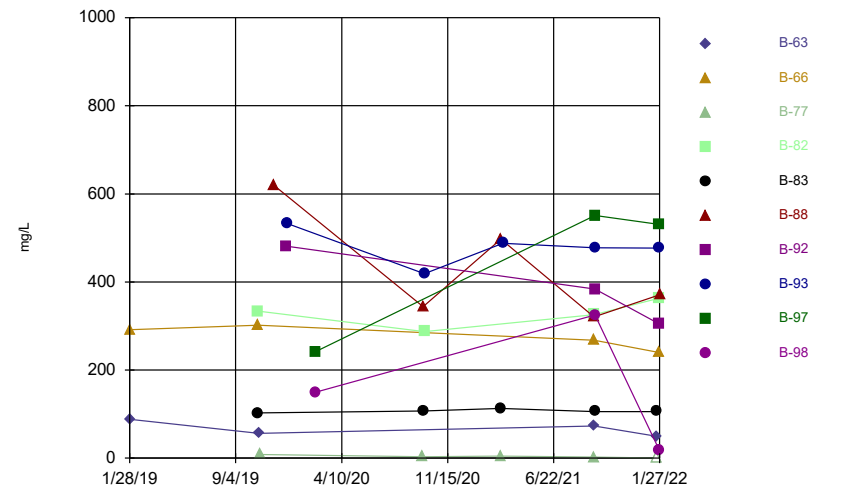
Constituent: Sulfate as SO4 Analysis Run 4/13/2022 4:12 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



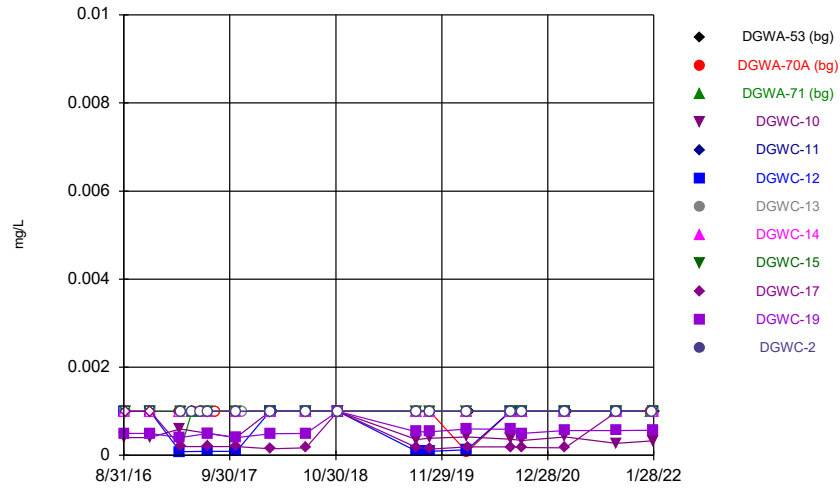
Constituent: Sulfate as SO4 Analysis Run 4/13/2022 4:12 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



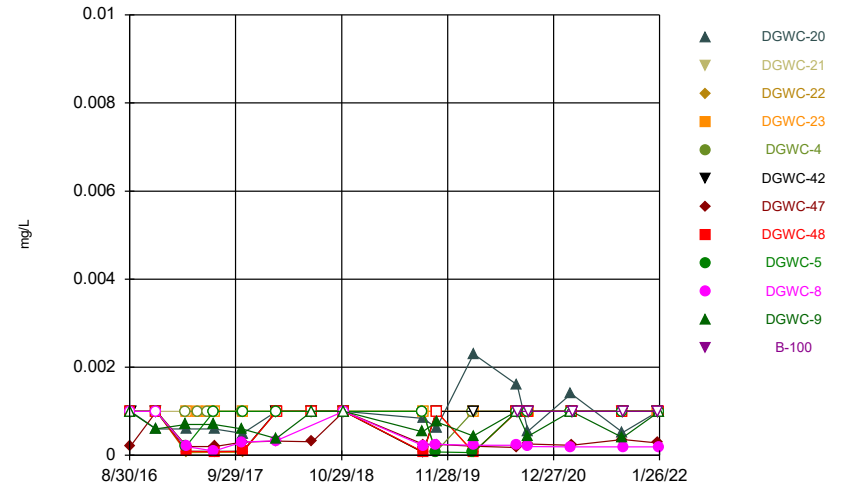
Constituent: Sulfate as SO4 Analysis Run 4/13/2022 4:12 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



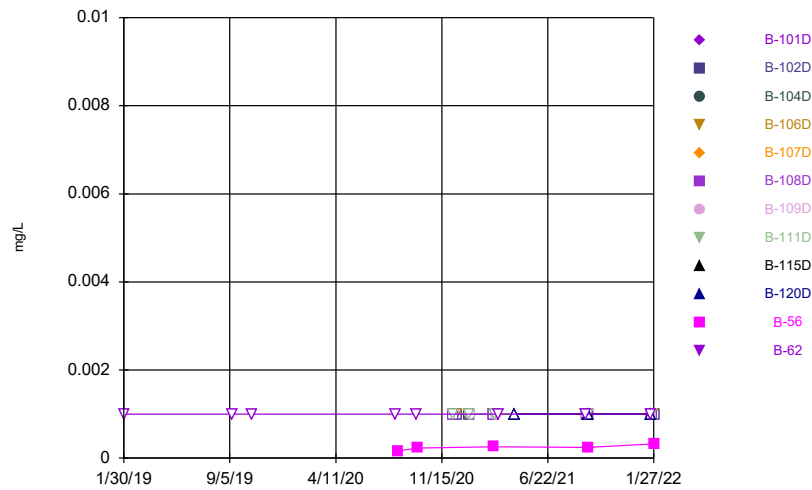
Constituent: Thallium Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



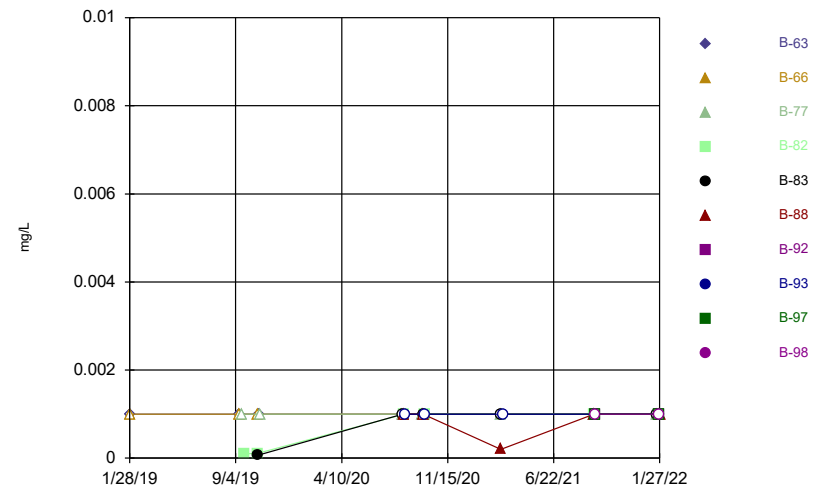
Constituent: Thallium Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



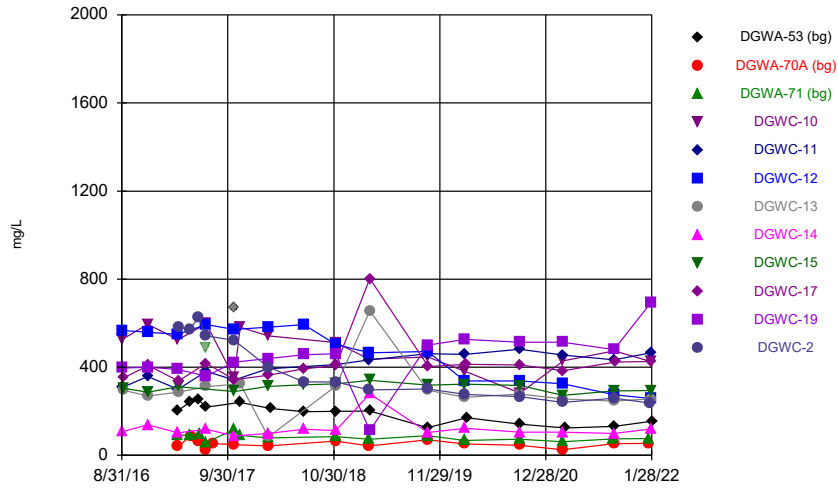
Constituent: Thallium Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



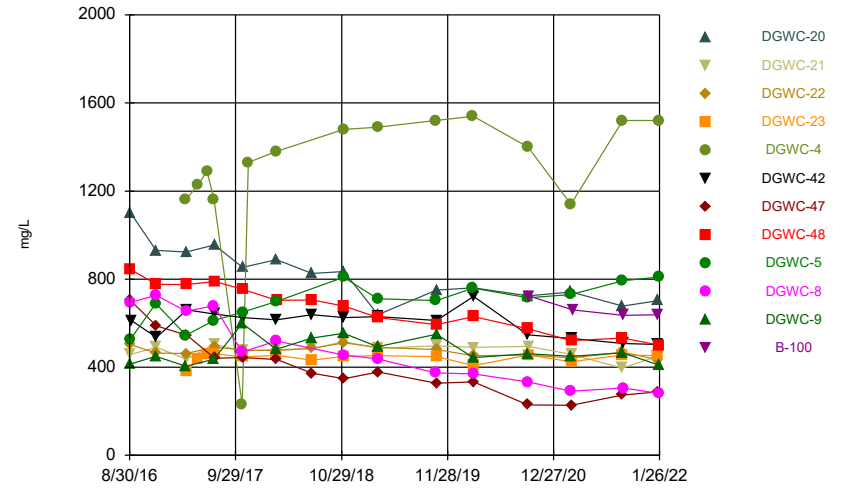
Constituent: Thallium Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



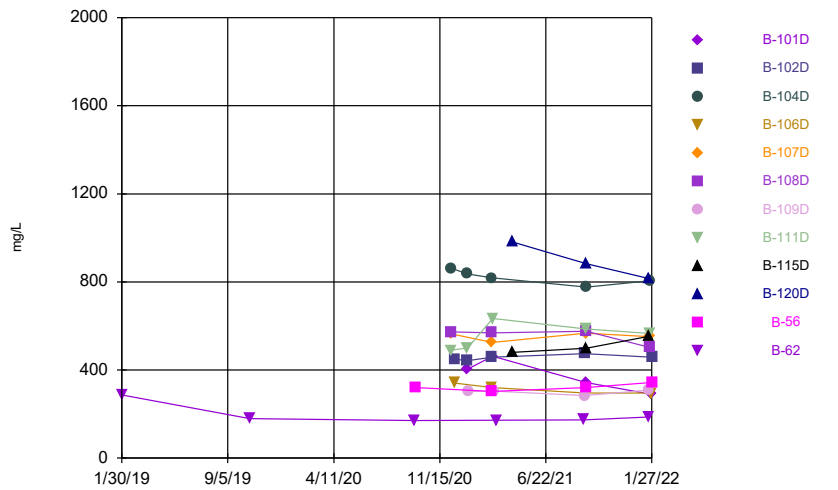
Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



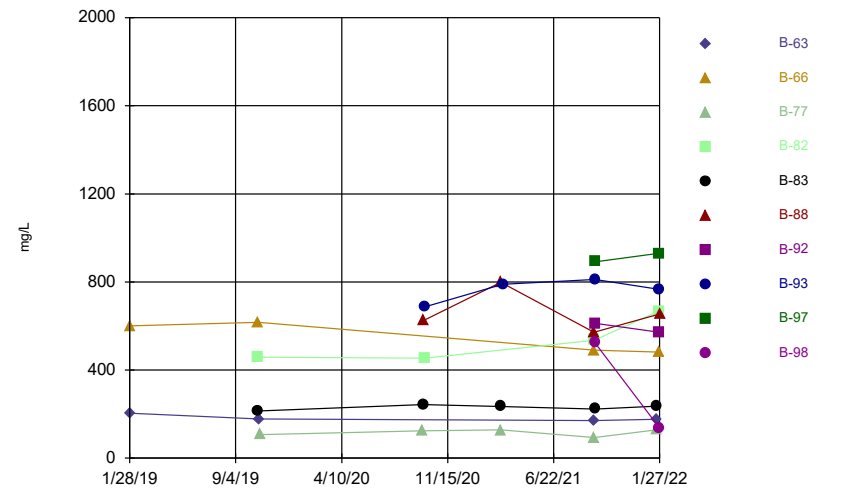
Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2022 4:12 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

# Time Series

Constituent: Antimony (mg/L) Analysis Run 4/13/2022 4:20 PM View: AP 234

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 4/13/2022 4:20 PM View: AP 234  
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 4/13/2022 4:20 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			







# Time Series

Constituent: Antimony (mg/L) Analysis Run 4/13/2022 4:20 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			0.0013 (J)
9/22/2020		<0.003	
9/23/2020	<0.003		
9/24/2020			
9/25/2020			<0.003
3/1/2021			
3/2/2021	0.00046 (J)	<0.003	
3/3/2021			
3/8/2021			0.0017 (J)

# Time Series

Constituent: Antimony (mg/L) Analysis Run 4/13/2022 4:20 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		<0.003	
9/13/2021	<0.003		<0.003
1/20/2022			
1/21/2022			<0.003
1/24/2022			
1/25/2022	<0.003		
1/26/2022		<0.003	

# Time Series

Constituent: Antimony (mg/L) Analysis Run 4/13/2022 4:20 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.00079 (J)		<0.003	<0.003		<0.003	
12/17/2020		0.0016 (J)		0.00048 (J)					
1/11/2021		<0.003							
1/12/2021	0.00039 (J)		0.00048 (J)					<0.003	
1/13/2021							0.00042 (J)		
3/3/2021									
3/4/2021		<0.003	0.00077 (J)	<0.003	<0.003	<0.003			
3/5/2021	0.0019 (J)							0.0006 (J)	
3/8/2021							0.00084 (J)		
3/12/2021									
4/14/2021									<0.003
4/15/2021									
9/9/2021									
9/10/2021		<0.003					0.004		
9/13/2021	0.001 (J)			<0.003	<0.003				
9/14/2021			<0.003			<0.003		<0.003	<0.003
1/20/2022							<0.003		<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							

# Time Series

Constituent: Antimony (mg/L) Analysis Run 4/13/2022 4:20 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
1/30/2019			<0.003
9/11/2019			<0.003
10/21/2019			<0.003
8/13/2020			<0.003
8/17/2020		<0.003	
9/24/2020			0.00046 (J)
9/28/2020		<0.003	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		<0.003	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.003
4/14/2021			
4/15/2021	0.00029 (J)		
9/9/2021			<0.003
9/10/2021			
9/13/2021		<0.003	
9/14/2021	<0.003		
1/20/2022	<0.003		<0.003
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.0011 (J)	

# Time Series

Constituent: Antimony (mg/L) Analysis Run 4/13/2022 4:20 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.003								
1/30/2019		<0.003							
9/11/2019	<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				
10/22/2019	0.00066 (J)								
10/24/2019			<0.003						
8/13/2020			0.00043 (J)						
8/14/2020					<0.003				
8/17/2020				<0.003		<0.003			
8/19/2020								<0.003	
9/24/2020			0.00036 (J)						
9/25/2020					<0.003	<0.003			
9/28/2020				<0.003				0.0014 (J)	
3/4/2021			0.00063 (J)		<0.003				
3/5/2021						<0.003			
3/9/2021								<0.003	
9/13/2021						<0.003			
9/14/2021	<0.003	<0.003	<0.003	<0.003					
9/15/2021							<0.003	<0.003	<0.003
9/16/2021					<0.003				
1/20/2022	<0.003		<0.003						
1/21/2022					<0.003				
1/25/2022		<0.003		<0.003					
1/26/2022							<0.003	<0.003	<0.003
1/27/2022						<0.003			

# Time Series

Constituent: Antimony (mg/L) Analysis Run 4/13/2022 4:20 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	<0.003
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	<0.003
1/27/2022	



# Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:20 PM View: AP 234

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 4/13/2022 4:20 PM View: AP 234  
 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 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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)	
7/23/2020									
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						
8/17/2020									
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					
9/25/2020									
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	



# Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
7/23/2020			<0.005
8/11/2020		0.022	
8/12/2020	<0.005		
8/13/2020			
8/14/2020			
8/17/2020			<0.005
9/22/2020		0.04	
9/23/2020	<0.005		
9/24/2020			
9/25/2020			<0.005
3/1/2021			
3/2/2021	<0.005	0.021	
3/3/2021			

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
3/8/2021			<0.005
9/9/2021			
9/10/2021		0.031	
9/13/2021	<0.005		<0.005
1/20/2022			
1/21/2022			<0.005
1/24/2022			
1/25/2022	<0.005		
1/26/2022		0.012	



# Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			<0.005		<0.005	<0.005		<0.005	
12/17/2020		<0.005		<0.005					
1/11/2021		<0.005							
1/12/2021	<0.005		<0.005					<0.005	
1/13/2021							<0.005		
3/3/2021									
3/4/2021		<0.005	0.0025 (J)	<0.005	<0.005	<0.005			
3/5/2021	0.0017 (J)							0.0023 (J)	
3/8/2021							<0.005		
3/12/2021									
4/14/2021									0.0028 (J)
4/15/2021									
9/9/2021									
9/10/2021		<0.005					<0.005		
9/13/2021	<0.005			<0.005	<0.005				
9/14/2021			0.0019 (J)			<0.005		0.0029 (J)	0.0018 (J)
1/20/2022							0.0026 (J)		0.0027 (J)
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							

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	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			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.003 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/14/2021			
4/15/2021	<0.005		
9/9/2021			<0.005
9/10/2021			
9/13/2021		0.0031 (J)	
9/14/2021	<0.005		
1/20/2022	0.0016 (J)		0.0033 (J)
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.0045 (J)	

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
11/22/2016		<0.005							
2/19/2018		<0.005							
1/28/2019	<0.005								
1/30/2019		<0.005							
9/11/2019	<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				
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		<0.005			
8/19/2020								0.0013 (J)	
9/24/2020			0.0025 (J)						
9/25/2020					<0.005	<0.005			
9/28/2020				<0.005				0.0027 (J)	
3/4/2021			0.002 (J)		<0.005				
3/5/2021						<0.005			
3/9/2021								<0.005	
3/12/2021		<0.005		<0.005					
9/13/2021						<0.005			
9/14/2021	<0.005	<0.005	<0.005	<0.005					
9/15/2021							0.0012 (J)	<0.005	<0.005
9/16/2021					<0.005				
1/20/2022	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)	0.002 (J)	0.0014 (J)
1/27/2022						<0.005			

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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  
9/24/2020  
9/25/2020  
9/28/2020  
3/4/2021  
3/5/2021  
3/9/2021  
3/12/2021  
9/13/2021  
9/14/2021  
9/15/2021  
9/16/2021  
1/20/2022  
1/21/2022  
1/25/2022  
1/26/2022  
1/27/2022

<0.005

<0.005

# Time Series

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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 4/13/2022 4:21 PM View: AP 234  
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 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			







# Time Series

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			0.015
9/22/2020		0.015	
9/23/2020	0.025		
9/24/2020			
9/25/2020			0.022
3/1/2021			
3/2/2021	0.029	0.017	
3/3/2021			
3/8/2021			0.022

# Time Series

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.014	
9/13/2021	0.019		0.021
1/20/2022			
1/21/2022			0.023
1/24/2022			
1/25/2022	0.019		
1/26/2022		0.016	

# Time Series

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.026		0.13	0.066		0.027	
12/17/2020		0.022		0.022					
1/11/2021		0.024							
1/12/2021	0.076		0.022					0.027	
1/13/2021							0.06		
3/3/2021									
3/4/2021		0.022	0.021	0.021	0.12	0.06			
3/5/2021	0.064							0.038	
3/8/2021							0.056		
3/12/2021									
4/14/2021									0.018
4/15/2021									
9/9/2021									
9/10/2021		0.02					0.022		
9/13/2021	0.076			0.02	0.087				
9/14/2021			0.021			0.06		0.043	0.016
1/20/2022							0.047		0.015
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							

# Time Series

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
1/30/2019			0.018
9/11/2019			0.023
10/21/2019			0.026
8/13/2020			0.026
8/17/2020		0.03	
9/24/2020			0.025
9/28/2020		0.026	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.028	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.027
4/14/2021			
4/15/2021	0.044		
9/9/2021			0.021
9/10/2021			
9/13/2021		0.026	
9/14/2021	0.031		
1/20/2022	0.025		0.021
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.03	

# Time Series

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	0.028								
1/30/2019		0.016							
9/11/2019	0.021								
9/12/2019		0.017							
9/18/2019			0.086						
9/23/2019				0.031					
10/21/2019		0.018		0.03	0.034				
10/22/2019	0.021								
10/24/2019			0.1						
8/13/2020			0.11						
8/14/2020					0.056				
8/17/2020				0.024		0.022			
8/19/2020								0.018	
9/24/2020			0.12						
9/25/2020					0.027	0.021			
9/28/2020				0.023				0.017	
3/4/2021			0.11		0.032				
3/5/2021						0.022			
3/9/2021								0.016 (J)	
9/13/2021						0.016			
9/14/2021	0.026	0.018	0.12	0.022					
9/15/2021							0.015	0.016	0.02
9/16/2021					0.03				
1/20/2022	0.02		0.13						
1/21/2022					0.024				
1/25/2022		0.021		0.026					
1/26/2022							0.016	0.021	0.02
1/27/2022						0.018			

# Time Series

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	0.082
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	0.035
1/27/2022	







# Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
 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 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			





# Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			0.0004 (J)
9/22/2020		0.0049	
9/23/2020	0.0015 (J)		
9/24/2020			
9/25/2020			0.00035 (J)
3/1/2021			
3/2/2021	0.0012	0.005	
3/3/2021			
3/8/2021			0.00046 (J)

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.0049	
9/13/2021	0.0015		0.00053
1/20/2022			
1/21/2022			0.00053
1/24/2022			
1/25/2022	0.0012		
1/26/2022		0.0054	



# Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
10/6/2016									
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.0013 (J)		<0.0005	<0.0005		<0.0005	
12/17/2020		0.0014 (J)		0.00012 (J)					
1/11/2021		0.0013 (J)							
1/12/2021	6.6E-05 (J)		0.0015 (J)					<0.0005	
1/13/2021							5.9E-05 (J)		
3/3/2021									
3/4/2021		0.0012	0.0015	0.00013 (J)	5E-05 (J)	<0.0005			
3/5/2021	4.7E-05 (J)							<0.0005	
3/8/2021							7.9E-05 (J)		
3/12/2021									
4/14/2021									0.012
4/15/2021									
9/9/2021									
9/10/2021		0.0011					<0.0005		
9/13/2021	6.7E-05 (J)			0.00013 (J)	<0.0005				
9/14/2021			0.0011			<0.0005		<0.0005	0.011
1/20/2022							7.1E-05 (J)		0.011
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							

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
10/6/2016			9E-05 (J)
1/30/2019			<0.0005
9/11/2019			0.00012 (J)
10/21/2019			7.8E-05 (J)
8/13/2020			0.00011 (J)
8/17/2020		0.0013 (J)	
9/24/2020			0.00013 (J)
9/28/2020		0.0012 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.0011	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.0005
4/14/2021			
4/15/2021	0.00085		
9/9/2021			0.00014 (J)
9/10/2021			
9/13/2021		0.0012	
9/14/2021	0.00087		
1/20/2022	0.0011		0.00015 (J)
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.0012	

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
10/7/2016	0.0004 (J)								
11/22/2016		<0.0005							
2/19/2018	0.00049 (J)	<0.0005							
1/28/2019	<0.0005								
1/30/2019		<0.0005							
9/11/2019	0.00035 (J)								
9/12/2019		<0.0005							
9/18/2019			0.00011 (J)						
9/23/2019				0.0015 (J)					
10/21/2019		<0.0005		0.0011 (J)	0.00039 (J)				
10/22/2019	0.0003 (J)								
10/24/2019			<0.0005						
12/18/2019							0.022		
12/19/2019								0.0069	
2/17/2020									<0.0005
2/27/2020									0.0019 (J)
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	0.0019
3/15/2021									
9/13/2021						0.001			
9/14/2021	0.00042 (J)	<0.0005	<0.0005	0.0017					
9/15/2021							0.014	0.015	0.0016
9/16/2021					0.00028 (J)				
1/20/2022	0.00034 (J)		<0.0005						
1/21/2022					0.00039 (J)				
1/25/2022		<0.0005		0.0021					
1/26/2022							0.018	0.017	0.0017
1/27/2022						0.0019			

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

B-98

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	
2/17/2020	<0.0005
2/27/2020	<0.0005
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
3/15/2021	<0.0005
9/13/2021	
9/14/2021	
9/15/2021	0.00087
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	6.8E-05 (J)
1/27/2022	





# Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
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, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			



# Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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					
9/25/2020									
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	
3/8/2021									
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		



# Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
9/25/2020			0.27
3/1/2021			
3/2/2021	0.96	0.77	
3/3/2021			
3/8/2021			0.24
9/9/2021			
9/10/2021		0.54	
9/13/2021	0.86		0.24
1/20/2022			
1/21/2022			0.24

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
1/24/2022			
1/25/2022	0.98		
1/26/2022		0.69	

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
10/6/2016									
1/30/2019									
9/11/2019									
10/21/2019									
9/24/2020									
9/28/2020									
12/9/2020			0.26 (J)		11.7	6.7		0.34 (J)	
12/17/2020		2.4		1.4					
1/11/2021		2.7							
1/12/2021	1.7		0.28					0.26	
1/13/2021							0.46		
3/3/2021									
3/4/2021		2.5	0.26	1.4	12	6.4			
3/5/2021	1.9							0.44	
3/8/2021							0.55		
3/12/2021									
4/14/2021									0.69
4/15/2021									
9/9/2021									
9/10/2021		2.5					0.41		
9/13/2021	1.6			1.3	10.7				
9/14/2021			0.23			6.8		0.32	0.61
1/20/2022							0.6		0.55
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							

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
10/6/2016			0.053 (J)
1/30/2019			0.14
9/11/2019			0.068
10/21/2019			0.058
9/24/2020			0.074 (J)
9/28/2020		1.4	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		1.4	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.092 (J)
4/14/2021			
4/15/2021	1.9		
9/9/2021			0.068
9/10/2021			
9/13/2021		1.5	
9/14/2021	1.7		
1/20/2022	1.9		0.077
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		1.6	

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
11/22/2016		1.1							
1/28/2019	0.44								
1/30/2019		2							
9/11/2019	0.26								
9/12/2019		2							
9/18/2019			0.3						
9/23/2019				1.4					
10/21/2019		1.9		1.2	0.28				
10/22/2019	0.22								
10/24/2019			0.31						
11/22/2019						3.6			
12/18/2019							3.9		
12/19/2019								3.3	
9/24/2020			0.27						
9/25/2020					0.35	1.8			
9/28/2020				1.1				3	
3/4/2021			0.35		0.33				
3/5/2021						3.5			
3/9/2021							2.9	3.4	
9/13/2021						2			
9/14/2021	0.35	2.1	0.29	0.78					
9/15/2021							2.3	3.1	3.3
9/16/2021					0.3				
1/20/2022	0.21		0.28						
1/21/2022					0.32				
1/25/2022		2.3		0.7					
1/26/2022							2.7	3.6	3.7
1/27/2022						2.7			

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	2.6
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	0.12
1/27/2022	



# Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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 4/13/2022 4:21 PM View: AP 234

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 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			





# Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			0.00059 (J)
9/22/2020		0.00059 (J)	
9/23/2020	0.0018 (J)		
9/24/2020			
9/25/2020			0.00027 (J)
3/1/2021			
3/2/2021	0.0017	0.00057	
3/3/2021			
3/8/2021			0.00027 (J)

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.00053	
9/13/2021	0.002		0.00029 (J)
1/20/2022			
1/21/2022			0.00059
1/24/2022			
1/25/2022	0.0016		
1/26/2022		0.00059	



# Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			<0.0005		<0.0005	<0.0005		<0.0005	
12/17/2020		0.00067 (J)		0.0002 (J)					
1/11/2021		0.0008 (J)							
1/12/2021	<0.0005		<0.0005					<0.0005	
1/13/2021							<0.0005		
3/3/2021									
3/4/2021		0.00081	<0.0005	0.00021 (J)	<0.0005	<0.0005			
3/5/2021	<0.0005							<0.0005	
3/8/2021							<0.0005		
3/12/2021									
4/14/2021									0.00041 (J)
4/15/2021									
9/9/2021									
9/10/2021		0.00083					<0.0005		
9/13/2021	<0.0005			0.00024 (J)	<0.0005				
9/14/2021			<0.0005			<0.0005		<0.0005	0.00035 (J)
1/20/2022							<0.0005		0.00029 (J)
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							

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
1/30/2019			<0.0005
9/11/2019			<0.0005
10/21/2019			<0.0005
8/13/2020			<0.0005
8/17/2020		0.00029 (J)	
9/24/2020			<0.0005
9/28/2020		0.00024 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.00026 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.0005
4/14/2021			
4/15/2021	0.001		
9/9/2021			<0.0005
9/10/2021			
9/13/2021		0.00028 (J)	
9/14/2021	0.0011		
1/20/2022	0.00098		<0.0005
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.00025 (J)	

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.0005								
1/30/2019		<0.0005							
9/11/2019	<0.0005								
9/12/2019		<0.0005							
9/18/2019			<0.0005						
9/23/2019				0.00044 (J)					
10/21/2019		<0.0005		0.00035 (J)	0.00041 (J)				
10/22/2019	0.00014 (J)								
10/24/2019			<0.0005						
8/13/2020			<0.0005						
8/14/2020					0.00037 (J)				
8/17/2020				0.00058 (J)		0.0018 (J)			
8/19/2020								0.00077 (J)	
9/24/2020			<0.0005						
9/25/2020					0.00026 (J)	0.00022 (J)			
9/28/2020				0.00066 (J)				0.00074 (J)	
3/4/2021			<0.0005		0.00032 (J)				
3/5/2021						0.0065			
3/9/2021								0.00075 (J)	
9/13/2021						0.0013			
9/14/2021	0.00025 (J)	<0.0005	<0.0005	0.0007					
9/15/2021							0.00096	0.00088	0.00056
9/16/2021					0.0003 (J)				
1/20/2022	<0.0005		<0.0005						
1/21/2022					0.0003 (J)				
1/25/2022		<0.0005		0.00072					
1/26/2022							0.001	0.00079	0.00055
1/27/2022						0.0036			

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	0.0003 (J)
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	<0.0005
1/27/2022	

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
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, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			



# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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					
9/25/2020									
3/1/2021					322				
3/2/2021	74.7								114
3/3/2021		82.1	62.3	68.1		38.8	25.5	66	
3/8/2021									
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		



# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
9/25/2020			44.7
3/1/2021			
3/2/2021	35.6	48.8	
3/3/2021			
3/8/2021			47.7
9/9/2021			
9/10/2021		47.7	
9/13/2021	36		51.5
1/20/2022			
1/21/2022			49.9

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
1/24/2022			
1/25/2022	36.8		
1/26/2022		48.4	

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
9/24/2020									
9/28/2020									
12/9/2020			154		85.4	90.5		105	
12/17/2020		71.5		43.2					
1/11/2021		73							
1/12/2021	56.3		156					103	
1/13/2021							40.3		
3/3/2021									
3/4/2021		79.7	150	42.1	83.9	86.6			
3/5/2021	68.9							110	
3/8/2021							40.2		
3/12/2021									
4/14/2021									52
4/15/2021									
9/9/2021									
9/10/2021		84.7					42.1		
9/13/2021	53.6			42.1	83.6				
9/14/2021			151			83.3		98.4	63
1/20/2022							40		83.6
1/24/2022			163		89.9	88.2		107	
1/25/2022				40					
1/26/2022	49.7								
1/27/2022		86.9							

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
1/30/2019			51.4
10/21/2019			31.2
9/24/2020			28.8
9/28/2020		15.1	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		18.5	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			28.8
4/14/2021			
4/15/2021	171		
9/9/2021			29.2
9/10/2021			
9/13/2021		15.2	
9/14/2021	162		
1/20/2022	158		36.3
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		19.8	

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<25								
1/30/2019		62.4							
10/21/2019		85.5		27	35.1				
10/22/2019	20.7								
10/24/2019			15.6						
11/22/2019						156			
12/18/2019							139		
12/19/2019								168	
2/17/2020									190
9/24/2020			17.9						
9/25/2020					39.8	79.8			
9/28/2020				26.5				110	
3/4/2021			14.8		39.1				
3/5/2021						128			
3/9/2021								127	
9/13/2021						80.5			
9/14/2021	22.7	60.9	17	33.4					
9/15/2021							110	129	178
9/16/2021					39.4				
1/20/2022	22.9		18.6						
1/21/2022					40.8				
1/25/2022		54.9		36.4					
1/26/2022							96	141	198
1/27/2022						105			

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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	
2/17/2020	85.9
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	105
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	31.9
1/27/2022	



# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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, Total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
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, Total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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					
9/25/2020									
3/1/2021					15				
3/2/2021	28								9.8
3/3/2021		19.7	20.6	14		20.8	2.9	14.2	
3/8/2021									
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			



# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
9/25/2020			13.2
3/1/2021			
3/2/2021	8.6	8.4	
3/3/2021			
3/8/2021			12.9
9/9/2021			
9/10/2021		9	
9/13/2021	8.2		11.1
1/20/2022			

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
1/21/2022			11.3
1/24/2022			
1/25/2022	9.3		
1/26/2022		9.1	



# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
9/24/2020									
9/28/2020									
12/9/2020			7.7		12.5	29.1		12.8	
12/17/2020		10.3		8					
1/11/2021		9.8							
1/12/2021	20.6		7.5					15.7	
1/13/2021							3.1		
3/3/2021									
3/4/2021		10.4	7.9	7.8	13	29.4			
3/5/2021	9							39.2	
3/8/2021							3.9		
3/12/2021									
4/14/2021									7.9
4/15/2021									
9/9/2021									
9/10/2021		10.2					4.8		
9/13/2021	8.7			7	11.7				
9/14/2021			7.9			28.8		27.3	9
1/20/2022							3.7		15.8
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							

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
1/30/2019			7.1
10/21/2019			6.5
9/24/2020			5.7
9/28/2020		8.7	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		8.3	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			5.9
4/14/2021			
4/15/2021	6.2		
9/9/2021			5.8
9/10/2021			
9/13/2021		7.1	
9/14/2021	6.1		
1/20/2022	6		5.6
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		7.6	

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	7.9								
1/30/2019		9.3							
10/21/2019		9.9		14.3	3.4				
10/22/2019	18								
10/24/2019			3.3						
11/22/2019						9.1			
12/18/2019							9.4		
12/19/2019								10.4	
2/17/2020									20.9
9/24/2020			5.3						
9/25/2020					3	10			
9/28/2020				9.9				10.8	
3/4/2021			2.9		3.2				
3/5/2021						7.8			
3/9/2021								13.5	
9/13/2021						8.2			
9/14/2021	7.1	8.9	4.7	9.5					
9/15/2021							10.4	13.2	18.8
9/16/2021					2.6				
1/20/2022	15		5						
1/21/2022					2.4				
1/25/2022		8.7		9.9					
1/26/2022							9.4	14.7	19.8
1/27/2022						8.8			

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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	
2/17/2020	96.8
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	29.9
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	4.9
1/27/2022	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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	<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 4/13/2022 4:21 PM View: AP 234  
 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 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			







# Time Series

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			<0.005
9/22/2020		<0.005	
9/23/2020	0.00086 (J)		
9/24/2020			
9/25/2020			0.00094 (J)
3/1/2021			
3/2/2021	0.0015 (J)	0.00059 (J)	
3/3/2021			
3/8/2021			0.00057 (J)

# Time Series

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		<0.005	
9/13/2021	<0.005		<0.005
1/20/2022			
1/21/2022			<0.005
1/24/2022			
1/25/2022	<0.005		
1/26/2022		0.0029 (J)	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.0011 (J)		<0.005	<0.005		<0.005	
12/17/2020		<0.005		<0.005					
1/11/2021		<0.005							
1/12/2021	<0.005		<0.005					<0.005	
1/13/2021							<0.005		
3/3/2021									
3/4/2021		<0.005	<0.005	<0.005	<0.005	<0.005			
3/5/2021	<0.005							<0.005	
3/8/2021							0.00061 (J)		
3/12/2021									
4/14/2021									<0.005
4/15/2021									
9/9/2021									
9/10/2021		<0.005					<0.005		
9/13/2021	0.0014 (J)			<0.005	<0.005				
9/14/2021			<0.005			<0.005		<0.005	<0.005
1/20/2022							<0.005		<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							

# Time Series

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.005
9/11/2019			<0.005
10/21/2019			0.00098 (J)
8/13/2020			<0.005
8/17/2020		0.0014 (J)	
9/24/2020			<0.005
9/28/2020		<0.005	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.00059 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/14/2021			
4/15/2021	<0.005		
9/9/2021			<0.005
9/10/2021			
9/13/2021		<0.005	
9/14/2021	<0.005		
1/20/2022	<0.005		<0.005
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.0014 (J)	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.005								
1/30/2019		<0.005							
9/11/2019	<0.005								
9/12/2019		<0.005							
9/18/2019			0.00068 (J)						
9/23/2019				0.0011 (J)					
10/21/2019		<0.005		<0.005	0.0017 (J)				
10/22/2019	0.00064 (J)								
10/24/2019			<0.005						
8/13/2020			0.0021 (J)						
8/14/2020					0.005 (J)				
8/17/2020				<0.005		0.0014 (J)			
8/19/2020								0.00057 (J)	
9/24/2020			0.0007 (J)						
9/25/2020					0.0051 (J)	0.00085 (J)			
9/28/2020				<0.005				0.00066 (J)	
3/4/2021			0.00098 (J)		0.0049 (J)				
3/5/2021						0.0017 (J)			
3/9/2021								<0.005	
9/13/2021						<0.005			
9/14/2021	<0.005	<0.005	<0.005	<0.005					
9/15/2021							<0.005	<0.005	<0.005
9/16/2021					0.003 (J)				
1/20/2022	<0.005		<0.005						
1/21/2022					0.0034 (J)				
1/25/2022		<0.005		<0.005					
1/26/2022							<0.005	0.0011 (J)	<0.005
1/27/2022						<0.005			

# Time Series

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	<0.005
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	0.0013 (J)
1/27/2022	



# Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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 4/13/2022 4:21 PM View: AP 234  
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 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			





# Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
7/23/2020			0.086
8/3/2020			0.087
8/11/2020		0.22	
8/12/2020	0.053		
8/13/2020			
8/14/2020			
8/17/2020			0.077
9/22/2020		0.16	
9/23/2020	0.04		
9/24/2020			
9/25/2020			0.034
3/1/2021			
3/2/2021	0.033	0.18	

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
3/3/2021			
3/8/2021			0.029
9/9/2021			
9/10/2021		0.21	
9/13/2021	0.028		0.035
1/20/2022			
1/21/2022			0.034
1/24/2022			
1/25/2022	0.019		
1/26/2022		0.22	



# Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.17		0.0017 (J)	0.0048 (J)		0.00076 (J)	
12/17/2020		0.014		0.00087 (J)					
1/11/2021		0.015							
1/12/2021	0.0034 (J)		0.19					0.0007 (J)	
1/13/2021							<0.005		
3/3/2021									
3/4/2021		0.014	0.19	0.0007 (J)	0.0012 (J)	0.0017 (J)			
3/5/2021	0.0023 (J)							0.00052 (J)	
3/8/2021							<0.005		
3/12/2021									
4/14/2021									0.3
4/15/2021									
9/9/2021									
9/10/2021		0.013					<0.005		
9/13/2021	0.003 (J)			0.00056 (J)	0.00083 (J)				
9/14/2021			0.1			0.0017 (J)		<0.005	0.28
1/20/2022							<0.005		0.24
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							

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.005
9/11/2019			0.0003 (J)
10/21/2019			0.00031 (J)
8/13/2020			<0.005
8/17/2020		0.042	
9/24/2020			<0.005
9/28/2020		0.042	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.05	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/14/2021			
4/15/2021	0.017		
9/9/2021			<0.005
9/10/2021			
9/13/2021		0.047	
9/14/2021	0.0055		
1/20/2022	0.0045 (J)		<0.005
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.052	

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	0.053								
1/30/2019		<0.005							
9/11/2019	0.043								
9/12/2019		0.006							
9/18/2019			0.0031 (J)						
9/23/2019				0.0038 (J)					
10/21/2019		0.0074		0.0089	0.018				
10/22/2019	0.046								
10/24/2019			0.0021 (J)						
11/22/2019						0.018 (J)			
12/19/2019								0.066	
2/17/2020									
8/13/2020			0.0011 (J)						
8/14/2020					0.021				
8/17/2020				0.0028 (J)		0.0031 (J)			
8/19/2020								0.068	
9/24/2020			0.0004 (J)						
9/25/2020					0.0073	0.0015 (J)			
9/28/2020				0.0053				0.064	
3/4/2021			0.0017 (J)		0.0099				
3/5/2021						0.022			
3/9/2021								0.061	
3/12/2021	0.046	0.01		0.0021 (J)					
3/15/2021									
9/13/2021						0.0018 (J)			
9/14/2021	0.037	0.012	<0.005	0.0015 (J)					
9/15/2021							0.063	0.062	0.003 (J)
9/16/2021					0.011				
1/20/2022	0.039		<0.005						
1/21/2022					0.011				
1/25/2022		0.013		0.0039 (J)					
1/26/2022							0.071	0.064	0.003 (J)
1/27/2022						0.0038 (J)			

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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	
2/17/2020	<0.005
8/13/2020	
8/14/2020	
8/17/2020	
8/19/2020	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
3/12/2021	
3/15/2021	<0.005
9/13/2021	
9/14/2021	
9/15/2021	0.0048 (J)
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	<0.005
1/27/2022	

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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				1.08	1.09			0.997 (U)	
9/1/2016						1.11			
9/6/2016							1.32		0.731 (U)
9/7/2016									
12/6/2016				1.31	0.409 (U)			0.659 (U)	
12/7/2016						2.66	1.76		1.73
12/8/2016									
3/28/2017	6.36	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)
5/11/2017	3.45								
5/12/2017			0.165 (U)						
5/15/2017		0.288 (U)							
6/15/2017	4.58	1.01 (U)							
6/16/2017			0.732 (U)						
7/11/2017		0.254 (U)	0.461 (U)						
7/12/2017	4.37			0.831	0.85 (U)	0.538 (U)	1.36	1.03 (U)	0.584 (U)
8/8/2017		1.48							
10/24/2017	4.46	0.472 (U)	0.724 (U)	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		1.22	0.714 (U)	1.55	1.14	0.83		0.695 (U)	
2/28/2018							0.721 (U)		1.25
3/8/2018	2.14								
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
7/12/2018	4.65								
11/6/2018		0.859 (U)	0.455 (U)	1.46	1.41				
11/7/2018	3.05					0.414 (U)	1.22 (U)	0.593 (U)	0.786 (U)
8/27/2019		1.97	1.3 (U)	1.58	2.13	0.434 (U)		1.17 (U)	
8/28/2019	2.68						1.43		1.01 (U)
10/15/2019		0.319 (U)	1.21 (U)	0.831 (U)	0.622 (U)	0.359 (U)			
10/16/2019	1.89						1.73	1.04 (U)	
10/17/2019									1.03 (U)
10/18/2019									
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									
3/9/2020	3.51								
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	1.04								3.58
8/14/2020									
9/22/2020	2.27	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					
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			
3/4/2021				1.48					
3/12/2021	1.63								
9/8/2021			0.051 (U)						



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2
8/31/2016			
9/1/2016		1.07 (U)	
9/6/2016			
9/7/2016	1.17		
12/6/2016			
12/7/2016		0.903 (U)	
12/8/2016	1.65		
3/28/2017			
3/29/2017		0.302 (U)	
3/30/2017	0.865 (U)		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	0.362 (U)	0.283 (U)	
8/8/2017			
10/24/2017			1.19
10/25/2017	0.401 (U)	0.927 (U)	
11/15/2017			
2/27/2018			0.863 (U)
2/28/2018	1.1 (U)	0.813 (U)	
3/8/2018			
7/10/2018			
7/11/2018	0.64 (U)	0.751 (U)	0.663 (U)
7/12/2018			
11/6/2018			0.664
11/7/2018	0.795 (U)	1.02	
8/27/2019	1.12		1.6
8/28/2019		0.661 (U)	
10/15/2019			
10/16/2019		1.79	
10/17/2019			1.74
10/18/2019	0.89 (U)		
3/2/2020			
3/3/2020		0.383 (U)	1.23
3/4/2020	0.493 (U)		
3/9/2020			
8/11/2020		0.723 (U)	1.37
8/12/2020			
8/13/2020			
8/14/2020	0.804 (U)		
9/22/2020		0.96 (U)	
9/23/2020			1.96 (U)
9/24/2020	0.369 (U)		
3/1/2021			
3/2/2021		0.775 (U)	1.54 (U)
3/3/2021	0.66 (U)		
3/4/2021			
3/12/2021			
9/8/2021			

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2
9/9/2021		0.239 (U)	1.22 (U)
9/10/2021			
9/13/2021	0.85 (U)		
1/18/2022			
1/20/2022			0.722 (U)
1/24/2022	0.692 (U)		
1/25/2022		0.415 (U)	
1/26/2022			
1/28/2022			



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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									2.49
9/1/2016							4.47	2.37	
9/2/2016	1.48	0.908 (U)	1.54						
9/7/2016						0.876 (U)			
12/6/2016									0.348 (U)
12/7/2016	1.26 (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	0.373 (U)		0.715 (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
7/12/2017	0.91 (U)	1.22		0.703 (U)					
7/13/2017			1.14			1.08 (U)	2.37	1.78	
10/24/2017					1.24				
10/25/2017	0.853 (U)	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
2/28/2018	0.727 (U)	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)
7/11/2018	1.3	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
11/7/2018	0.746 (U)	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)			
8/29/2019	0.996 (U)	0.582 (U)	1.87	2.21			3.05	2.37	
10/15/2019					2.11 (U)				
10/16/2019									1.63
10/17/2019	2	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)						
3/4/2020	1.67			1.39		0.722 (U)	1.68	1.31	
8/11/2020									
8/12/2020					1.95		2.56		1.13
8/13/2020	1.77			1.48 (U)		1.23 (U)		1.74	
8/14/2020		0.602 (U)	1.83						
8/17/2020									
9/22/2020	1.61 (U)				1.43 (U)	1.03 (U)			1.4 (U)
9/23/2020							2.3 (U)	1.51 (U)	
9/24/2020		0.396 (U)	1.02 (U)	1.49					
9/25/2020									
3/1/2021					1.05 (U)				
3/2/2021	1.76								0.971 (U)
3/3/2021		0.248 (U)	0.547 (U)	1.05 (U)		0.92 (U)	1.27 (U)	1.41	



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
8/30/2016	0.919 (U)	1.33	
8/31/2016			
9/1/2016			
9/2/2016			
9/7/2016			
12/6/2016	0.407 (U)	0.828 (U)	
12/7/2016			
12/8/2016			
3/28/2017		1.06	
3/29/2017	0.28 (U)		
3/30/2017			
3/31/2017			
5/12/2017			
6/15/2017			
7/11/2017	0.209 (U)	0.62 (U)	
7/12/2017			
7/13/2017			
10/24/2017	0.615 (U)	1.21	
10/25/2017			
10/26/2017			
2/27/2018	1.05 (U)	1.79	
2/28/2018			
3/1/2018			
3/2/2018			
7/10/2018	0.363 (U)		
7/11/2018		1.81	
7/12/2018			
11/6/2018	0.577 (U)	1.13	
11/7/2018			
11/8/2018			
8/27/2019		1.55	
8/28/2019	0.815 (U)		
8/29/2019			
10/15/2019			
10/16/2019	0.999 (U)		
10/17/2019		0.702 (U)	
10/18/2019			
3/2/2020			
3/3/2020	0.481 (U)	1.37	
3/4/2020			
8/11/2020		0.819 (U)	
8/12/2020	0.721 (U)		
8/13/2020			
8/14/2020			
8/17/2020			1.4 (U)
9/22/2020		1.15 (U)	
9/23/2020	0.8 (U)		
9/24/2020			
9/25/2020			0.799 (U)
3/1/2021			
3/2/2021	0.751 (U)	1.29 (U)	
3/3/2021			

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
3/8/2021			0.168 (U)
9/9/2021			
9/10/2021		1.28	
9/13/2021	0.916 (U)		0.774 (U)
1/20/2022			
1/21/2022			0.769 (U)
1/24/2022			
1/25/2022	0.356 (U)		
1/26/2022		0.789 (U)	

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
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							12.1		
3/12/2021									
4/14/2021									14.7
4/15/2021									
9/9/2021									
9/10/2021		1.74					9.45		
9/13/2021	1.8			0.625 (U)	0.813 (U)				
9/14/2021			9.6			0.917 (U)		4.39	11.9
1/20/2022							16.2		9.86
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)							

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			1.97 (U)
10/21/2019			1.82
8/13/2020			1.63
8/17/2020		1.15 (U)	
9/24/2020			1.28 (U)
9/28/2020		1.39	
12/9/2020			
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			
3/12/2021			1.18 (U)
4/14/2021			
4/15/2021	2.31		
9/9/2021			1.7
9/10/2021			
9/13/2021		0.854 (U)	
9/14/2021	3.68		
1/20/2022	1.21 (U)		1.71
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.831 (U)	

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	2.14 (U)								
1/30/2019		0.975 (U)							
10/21/2019		1.07 (U)		0.63 (U)	0.792 (U)				
10/22/2019	1.28 (U)								
10/24/2019			1.87						
8/13/2020			2.17						
8/14/2020					0.95 (U)				
8/17/2020				0.662 (U)		2.47			
8/19/2020								1.19 (U)	
9/24/2020			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)	
9/13/2021						0.771 (U)			
9/14/2021	1.68	0.421 (U)	0.617 (U)	1.03 (U)					
9/15/2021							1.39	1.84	2.11
9/16/2021					0.442 (U)				
1/20/2022	0.846 (U)		0.92						
1/21/2022					0.549 (U)				
1/25/2022		0 (U)		0.33 (U)					
1/26/2022							1.27 (U)	0.758 (U)	1.47 (U)
1/27/2022						1.18			

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	2.2
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	0.52 (U)
1/27/2022	



# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
 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, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			





# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			<0.1
9/22/2020		0.99	
9/23/2020	<0.1		
9/24/2020			
9/25/2020			<0.1

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
3/1/2021			
3/2/2021	0.059 (J)	0.93	
3/3/2021			
3/8/2021			<0.1
9/9/2021			
9/10/2021		2	
9/13/2021	0.069 (J)		<0.1
1/20/2022			
1/21/2022			<0.1
1/24/2022			
1/25/2022	<0.1		
1/26/2022		1.2	



# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.33		<0.1	<0.1		0.33	
12/17/2020		0.079 (J)		0.052 (J)					
1/11/2021		0.077 (J)							
1/12/2021	0.052 (J)		0.36					0.32	
1/13/2021							0.17		
3/3/2021									
3/4/2021		0.11	0.43	0.055 (J)	<0.1	<0.1			
3/5/2021	0.053 (J)							0.51	
3/8/2021							0.14		
3/12/2021									
4/14/2021									0.99
4/15/2021									
9/9/2021									
9/10/2021		0.083 (J)					0.15		
9/13/2021	0.051 (J)			0.052 (J)	<0.1				
9/14/2021			0.5			<0.1		0.57	1
1/20/2022							0.11		0.59
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)							

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			0.43
10/21/2019			0.23 (J)
8/13/2020			0.11
8/17/2020		0.19	
9/24/2020			0.093 (J)
9/28/2020		0.098 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.34	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.11
4/14/2021			
4/15/2021	<0.1		
9/9/2021			0.14
9/10/2021			
9/13/2021		0.2	
9/14/2021	<0.1		
1/20/2022	<0.1		0.099 (J)
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.21	

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	0.45								
1/30/2019		0.51							
10/21/2019		0.3 (J)		0.2 (J)	0.13 (J)				
10/22/2019	0.2 (J)								
10/24/2019			0.096 (J)						
8/13/2020			<0.1						
8/14/2020					0.05 (J)				
8/17/2020				<0.1		<0.1			
8/19/2020								0.32	
9/24/2020			<0.1						
9/25/2020					<0.1	<0.1			
9/28/2020				<0.1				0.3	
3/4/2021			<0.1		0.071 (J)				
3/5/2021						<0.1			
3/9/2021								0.34	
9/13/2021						<0.1			
9/14/2021	0.16	0.22	0.078 (J)	0.052 (J)					
9/15/2021							0.18	0.34	0.085 (J)
9/16/2021					0.066 (J)				
1/20/2022	0.12		<0.1						
1/21/2022					<0.1				
1/25/2022		0.12		<0.1					
1/26/2022							0.3	0.41	0.088 (J)
1/27/2022						<0.1			

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	0.098 (J)
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	0.13
1/27/2022	

# Time Series

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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 4/13/2022 4:21 PM View: AP 234  
 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 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			







# Time Series

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			8.8E-05 (J)
9/22/2020		0.00015 (J)	
9/23/2020	0.00011 (J)		
9/24/2020			
9/25/2020			0.00021 (J)
3/1/2021			
3/2/2021	0.00027 (J)	0.00028 (J)	
3/3/2021			
3/8/2021			0.00018 (J)

# Time Series

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		<0.001	
9/13/2021	<0.001		<0.001
1/20/2022			
1/21/2022			<0.001
1/24/2022			
1/25/2022	<0.001		
1/26/2022		<0.001	

# Time Series

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			5.1E-05 (J)		4.4E-05 (J)	<0.001		5.8E-05 (J)	
12/17/2020		3.7E-05 (J)		<0.001					
1/11/2021		5E-05 (J)							
1/12/2021	<0.001		<0.001					5.1E-05 (J)	
1/13/2021							<0.001		
3/3/2021									
3/4/2021		5.9E-05 (J)	<0.001	<0.001	<0.001	<0.001			
3/5/2021	6.5E-05 (J)							<0.001	
3/8/2021							<0.001		
3/12/2021									
4/14/2021									0.00032 (J)
4/15/2021									
9/9/2021									
9/10/2021		<0.001					<0.001		
9/13/2021	<0.001			<0.001	<0.001				
9/14/2021			<0.001			<0.001		<0.001	<0.001
1/20/2022							<0.001		<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							

# Time Series

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.001
9/11/2019			<0.001
10/21/2019			<0.001
8/13/2020			<0.001
8/17/2020		0.00022 (J)	
9/24/2020			<0.001
9/28/2020		9.1E-05 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.0001 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.001
4/14/2021			
4/15/2021	0.00019 (J)		
9/9/2021			<0.001
9/10/2021			
9/13/2021		<0.001	
9/14/2021	<0.001		
1/20/2022	<0.001		<0.001
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		<0.001	

# Time Series

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.001								
1/30/2019		<0.001							
9/11/2019	4.7E-05 (J)								
9/12/2019		<0.001							
9/18/2019			0.00032 (J)						
9/23/2019				0.00016 (J)					
10/21/2019		<0.001		<0.001	0.00012 (J)				
10/22/2019	7.3E-05 (J)								
10/24/2019			<0.001						
8/13/2020			0.0016 (J)						
8/14/2020					0.00092 (J)				
8/17/2020				5.9E-05 (J)		0.00081 (J)			
8/19/2020								0.00012 (J)	
9/24/2020			0.00021 (J)						
9/25/2020					6.5E-05 (J)	0.00035 (J)			
9/28/2020				0.00011 (J)				0.00012 (J)	
3/4/2021			0.00029 (J)		0.00017 (J)				
3/5/2021						0.012			
3/9/2021								<0.001	
9/13/2021						<0.001			
9/14/2021	<0.001	<0.001	<0.001	<0.001					
9/15/2021							<0.001	<0.001	<0.001
9/16/2021					<0.001				
1/20/2022	<0.001		<0.001						
1/21/2022					<0.001				
1/25/2022		<0.001		<0.001					
1/26/2022							<0.001	<0.001	<0.001
1/27/2022						0.0022			

# Time Series

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	<0.001
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	<0.001
1/27/2022	



# Time Series

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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 4/13/2022 4:21 PM View: AP 234  
 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 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			





# Time Series

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			0.0013 (J)
9/22/2020		0.025 (J)	
9/23/2020	0.0045 (J)		
9/24/2020			
9/25/2020			0.0027 (J)
3/1/2021			
3/2/2021	0.0046 (J)	0.028 (J)	
3/3/2021			
3/8/2021			0.0024 (J)

# Time Series

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.027 (J)	
9/13/2021	0.0034 (J)		0.0022 (J)
1/20/2022			
1/21/2022			0.0021 (J)
1/24/2022			
1/25/2022	0.0032 (J)		
1/26/2022		0.029 (J)	



# Time Series

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.039 (J)		0.017 (J)	0.016 (J)		0.021 (J)	
12/17/2020		0.012 (J)		0.0048 (J)					
1/11/2021		0.015 (J)							
1/12/2021	0.012 (J)		0.039					0.021 (J)	
1/13/2021							0.016 (J)		
3/3/2021									
3/4/2021		0.014 (J)	0.038	0.0054 (J)	0.015 (J)	0.014 (J)			
3/5/2021	0.015 (J)							0.028 (J)	
3/8/2021							0.014 (J)		
3/12/2021									
4/14/2021									0.089
4/15/2021									
9/9/2021									
9/10/2021		0.012 (J)					0.013 (J)		
9/13/2021	0.011 (J)			0.0056 (J)	0.014 (J)				
9/14/2021			0.036			0.015 (J)		0.029 (J)	0.085
1/20/2022							0.014 (J)		0.081
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)							

# Time Series

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.03
9/11/2019			0.0078 (J)
10/21/2019			0.0078 (J)
8/13/2020			0.0087 (J)
8/17/2020		0.0056 (J)	
9/24/2020			0.0084 (J)
9/28/2020		0.005 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.0051 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.0087 (J)
4/14/2021			
4/15/2021	0.088		
9/9/2021			0.0094 (J)
9/10/2021			
9/13/2021		0.0055 (J)	
9/14/2021	0.077		
1/20/2022	0.079		0.0092 (J)
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.0061 (J)	

# Time Series

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.03								
1/30/2019		<0.03							
9/11/2019	0.0064 (J)								
9/12/2019		<0.03							
9/18/2019			0.0047 (J)						
9/23/2019				0.0039 (J)					
10/21/2019		<0.03		0.0036 (J)	0.003 (J)				
10/22/2019	0.0062 (J)								
10/24/2019			0.0036 (J)						
8/13/2020			0.0018 (J)						
8/14/2020					0.0045 (J)				
8/17/2020				0.0016 (J)		0.006 (J)			
8/19/2020								0.011 (J)	
9/24/2020			0.00095 (J)						
9/25/2020					0.0018 (J)	0.0016 (J)			
9/28/2020				0.001 (J)				0.011 (J)	
3/4/2021			0.0011 (J)		0.0024 (J)				
3/5/2021						0.029 (J)			
3/9/2021								0.012 (J)	
3/12/2021	0.0066 (J)								
9/13/2021						0.0017 (J)			
9/14/2021	0.0064 (J)	<0.03	<0.03	0.001 (J)					
9/15/2021							0.012 (J)	0.011 (J)	0.0042 (J)
9/16/2021					0.0021 (J)				
1/20/2022	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)	0.013 (J)	0.0047 (J)
1/27/2022						0.0066 (J)			

# Time Series

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
3/12/2021	
9/13/2021	
9/14/2021	
9/15/2021	0.0012 (J)
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	0.0013 (J)
1/27/2022	

# Time Series

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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 4/13/2022 4:21 PM View: AP 234  
 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			

# Time Series

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			



# Time Series

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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						
8/17/2020									
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)					
9/25/2020									
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)					



# Time Series

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			0.00011 (J)
9/22/2020		0.00013 (J)	
9/23/2020	<0.0002		
9/24/2020			
9/25/2020			<0.0002
3/1/2021			
3/2/2021	<0.0002	0.00017 (J)	
3/3/2021			
9/9/2021			

# Time Series

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/10/2021		0.00014 (J)	
9/13/2021	<0.0002		<0.0002
1/20/2022			
1/21/2022			<0.0002
1/24/2022			
1/25/2022	<0.0002		
1/26/2022		0.00014 (J)	

# Time Series

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			7.9E-05 (J)		0.00016 (J)	0.00014 (J)		9.4E-05 (J)	
12/17/2020		<0.0002		<0.0002					
1/11/2021		<0.0002							
1/12/2021	<0.0002		<0.0002					<0.0002	
1/13/2021							<0.0002		
3/3/2021									
3/4/2021		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
3/5/2021	0.00014 (J)							<0.0002	
3/8/2021							<0.0002		
3/12/2021									
4/14/2021									<0.0002
4/15/2021									
9/9/2021									
9/10/2021		<0.0002					<0.0002		
9/13/2021	<0.0002			<0.0002	<0.0002				
9/14/2021			<0.0002			<0.0002		<0.0002	<0.0002
1/20/2022							<0.0002		<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							

# Time Series

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.0002
9/11/2019			<0.0002
10/21/2019			<0.0002
8/13/2020			<0.0002
8/17/2020		0.00016 (J)	
9/24/2020			<0.0002
9/28/2020		<0.0002	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		<0.0002	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.0002
4/14/2021			
4/15/2021	<0.0002		
9/9/2021			<0.0002
9/10/2021			
9/13/2021		<0.0002	
9/14/2021	<0.0002		
1/20/2022	<0.0002		<0.0002
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		<0.0002	

# Time Series

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.0002								
1/30/2019		<0.0002							
9/11/2019	<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				
10/22/2019	<0.0002								
10/24/2019			<0.0002						
8/13/2020			<0.0002						
8/14/2020					<0.0002				
8/17/2020				0.00011 (J)		0.00011 (J)			
8/19/2020								0.00026	
9/24/2020			<0.0002						
9/25/2020					<0.0002	<0.0002			
9/28/2020				<0.0002				0.00024 (J)	
3/4/2021			<0.0002		<0.0002				
3/5/2021						0.0001 (J)			
3/9/2021								0.00015 (J)	
9/13/2021						<0.0002			
9/14/2021	<0.0002	<0.0002	<0.0002	<0.0002					
9/15/2021							0.00017 (J)	9.8E-05 (J)	<0.0002
9/16/2021					<0.0002				
1/20/2022	<0.0002		<0.0002						
1/21/2022					<0.0002				
1/25/2022		<0.0002		<0.0002					
1/26/2022							<0.0002	<0.0002	<0.0002
1/27/2022						<0.0002			

# Time Series

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	<0.0002
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	<0.0002
1/27/2022	



# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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 4/13/2022 4:21 PM View: AP 234  
 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 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			





# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			<0.01
9/22/2020		<0.01	
9/23/2020	<0.01		
9/24/2020			
9/25/2020			<0.01
3/1/2021			
3/2/2021	<0.01	<0.01	
3/3/2021			
3/8/2021			<0.01

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		<0.01	
9/13/2021	<0.01		<0.01
1/20/2022			
1/21/2022			<0.01
1/24/2022			
1/25/2022	<0.01		
1/26/2022		<0.01	



# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			0.0012 (J)		<0.01	<0.01		0.0055 (J)	
12/17/2020		<0.01		<0.01					
1/11/2021		<0.01							
1/12/2021	0.0022 (J)		<0.01					0.0054 (J)	
1/13/2021							0.0022 (J)		
3/3/2021									
3/4/2021		<0.01	<0.01	<0.01	<0.01	<0.01			
3/5/2021	<0.01							0.0067 (J)	
3/8/2021							0.0014 (J)		
3/12/2021									
4/14/2021									<0.01
4/15/2021									
9/9/2021									
9/10/2021		<0.01					0.0011 (J)		
9/13/2021	<0.01			<0.01	<0.01				
9/14/2021			<0.01			<0.01		0.013	<0.01
1/20/2022							0.0012 (J)		<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							

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.01
9/11/2019			<0.01
10/21/2019			<0.01
8/13/2020			<0.01
8/17/2020		<0.01	
9/24/2020			<0.01
9/28/2020		<0.01	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		<0.01	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.01
4/14/2021			
4/15/2021	0.00089 (J)		
9/9/2021			<0.01
9/10/2021			
9/13/2021		<0.01	
9/14/2021	<0.01		
1/20/2022	<0.01		<0.01
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		<0.01	

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.01								
1/30/2019		<0.01							
9/11/2019	<0.01								
9/12/2019		0.0018 (J)							
9/18/2019			<0.01						
9/23/2019				<0.01					
10/21/2019		0.0015 (J)		<0.01	<0.01				
10/22/2019	<0.01								
10/24/2019			<0.01						
8/13/2020			<0.01						
8/14/2020					<0.01				
8/17/2020				<0.01		0.0012 (J)			
8/19/2020								<0.01	
9/24/2020			<0.01						
9/25/2020					<0.01	0.0012 (J)			
9/28/2020				<0.01				<0.01	
3/4/2021			<0.01		<0.01				
3/5/2021						<0.01			
3/9/2021								<0.01	
9/13/2021						<0.01			
9/14/2021	<0.01	<0.01	<0.01	<0.01					
9/15/2021							<0.01	<0.01	<0.01
9/16/2021					<0.01				
1/20/2022	<0.01		<0.01						
1/21/2022					<0.01				
1/25/2022		<0.01		<0.01					
1/26/2022							<0.01	<0.01	<0.01
1/27/2022						<0.01			

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	<0.01
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	0.0015 (J)
1/27/2022	

# Time Series

Constituent: pH, Field (SU) Analysis Run 4/13/2022 4:21 PM View: AP 234

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 4/13/2022 4:21 PM View: AP 234

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 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			



# Time Series

Constituent: pH, Field (SU) Analysis Run 4/13/2022 4:21 PM View: AP 234

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	
8/3/2020									
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						
8/17/2020									
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					



# Time Series

Constituent: pH, Field (SU) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/3/2020			4.93
8/11/2020		4	
8/12/2020	5.36		
8/13/2020			
8/14/2020			
8/17/2020			5.02
9/22/2020		4	
9/23/2020	5.21		
9/24/2020			

# Time Series

Constituent: pH, Field (SU) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/25/2020			5.53
3/1/2021			
3/2/2021	6.6	3.99	
3/3/2021			
3/8/2021			5.32
9/9/2021			
9/10/2021		3.98	
9/13/2021	5.05		5.27
1/20/2022			
1/21/2022			5.23
1/24/2022			
1/25/2022	5.16		
1/26/2022		3.68	

# Time Series

Constituent: pH, Field (SU) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			6.44		5.91	5.94		6.64	
12/17/2020		5.39		5.82					
1/11/2021		5.55							
1/12/2021	5.26		6.24					6.71	
1/13/2021							6.42		
3/3/2021									
3/4/2021		5.43	6.27	5.85	5.97	5.88			
3/5/2021	6.52							6.69	
3/8/2021							6.42		
3/12/2021									
4/14/2021									4.8
4/15/2021									
9/9/2021									
9/10/2021		5.36					6.86		
9/13/2021	6.07			5.91	5.88				
9/14/2021			8.58			5.81		7.29	5.38
1/20/2022							6.43		5.77
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							

# Time Series

Constituent: pH, Field (SU) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
9/11/2019			6.27
10/21/2019			6.24
8/13/2020			6.4
8/17/2020		4.82	
9/24/2020			6.55
9/28/2020		4.9	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		4.71	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			6.34
4/14/2021			
4/15/2021	5.46		
9/9/2021			6.31
9/10/2021			
9/13/2021		4.69	
9/14/2021	5.3		
1/20/2022	5.28		6.32
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		4.7	

# Time Series

Constituent: pH, Field (SU) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	5.39								
1/30/2019		6.83							
9/11/2019	5.48								
9/12/2019		6.87							
9/18/2019			6.14						
9/23/2019				5.21					
10/21/2019		6.74		5.34	5.54				
10/22/2019	5.55								
10/24/2019			6.26						
8/13/2020			6.14						
8/14/2020					5.59				
8/17/2020				5.48		5.76			
8/19/2020								4.78	
9/24/2020			6.46						
9/25/2020					5.97	5.75			
9/28/2020				5.84				4.67	
3/4/2021			6.33		5.6				
3/5/2021						5.21			
3/9/2021							4.62	4.73	5.55
3/12/2021	5.51	6.53		5.29					
3/15/2021									
9/13/2021						5.68			
9/14/2021	5.46	5.54	6.42	5.15					
9/15/2021							4.55	4.6	5.49
9/16/2021					5.58				
1/20/2022	5.46		6.48						
1/21/2022					5.56				
1/25/2022		6.35		5.07					
1/26/2022							4.5	4.74	6.52
1/27/2022						5.5			

# Time Series

Constituent: pH, Field (SU) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
3/12/2021	
3/15/2021	6.3
9/13/2021	
9/14/2021	
9/15/2021	5.4
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	6.52
1/27/2022	



# Time Series

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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 4/13/2022 4:21 PM View: AP 234  
 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 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			





# Time Series

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			<0.005
9/22/2020		0.23	
9/23/2020	0.0028 (J)		
9/24/2020			
9/25/2020			<0.005
3/1/2021			
3/2/2021	<0.005	0.07	
3/3/2021			
3/8/2021			0.0019 (J)

# Time Series

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.057	
9/13/2021	<0.005		<0.005
1/20/2022			
1/21/2022			<0.005
1/24/2022			
1/25/2022	<0.005		
1/26/2022		0.025	



# Time Series

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			<0.005		<0.005	<0.005		<0.005	
12/17/2020		<0.005		<0.005					
1/11/2021		<0.005							
1/12/2021	<0.005		0.0016 (J)					<0.005	
1/13/2021							<0.005		
3/3/2021									
3/4/2021		<0.005	0.0031 (J)	<0.005	<0.005	0.0016 (J)			
3/5/2021	0.0031 (J)							0.0022 (J)	
3/8/2021							<0.005		
3/12/2021									
4/14/2021									0.006
4/15/2021									
9/9/2021									
9/10/2021		<0.005					<0.005		
9/13/2021	<0.005			<0.005	<0.005				
9/14/2021			<0.005			<0.005		<0.005	0.0041 (J)
1/20/2022							<0.005		0.0022 (J)
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							

# Time Series

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	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		0.011	
9/24/2020			<0.005
9/28/2020		0.029	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.013	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/14/2021			
4/15/2021	0.0016 (J)		
9/9/2021			<0.005
9/10/2021			
9/13/2021		0.011	
9/14/2021	0.0022 (J)		
1/20/2022	0.0021 (J)		<0.005
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.0066	

# Time Series

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
2/19/2018		<0.005							
1/28/2019	<0.005								
1/30/2019		<0.005							
9/11/2019	<0.005								
9/12/2019		<0.005							
9/18/2019			<0.005						
9/23/2019				<0.005					
10/21/2019		<0.005		0.0016 (J)	0.0082 (J)				
10/22/2019	<0.005								
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	<0.005	<0.005					
9/15/2021							0.0067	0.0076	0.0024 (J)
9/16/2021					0.025				
1/20/2022	<0.005		<0.005						
1/21/2022					0.027				
1/25/2022		<0.005		0.002 (J)					
1/26/2022							0.0039 (J)	0.0063	0.0015 (J)
1/27/2022						<0.005			

# Time Series

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	0.0033 (J)
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	<0.005
1/27/2022	

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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 as SO4 (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
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 as SO4 (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2
1/20/2022			101
1/24/2022	225		
1/25/2022		288	
1/26/2022			
1/28/2022			



# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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					
9/25/2020									
3/1/2021					840				
3/2/2021	458								412
3/3/2021		264	252	221		329	143	312	
3/8/2021									
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			



# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
9/25/2020			385
3/1/2021			
3/2/2021	152	266	
3/3/2021			
3/8/2021			388
9/9/2021			
9/10/2021		264	
9/13/2021	145		351
1/20/2022			

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
1/21/2022			344
1/24/2022			
1/25/2022	134		
1/26/2022		245	

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
9/24/2020									
9/28/2020									
12/9/2020			415		273	277		197	
12/17/2020		249		179					
1/11/2021		249							
1/12/2021	207		471					222	
1/13/2021							99.8		
3/3/2021									
3/4/2021		256	474	170	309	309			
3/5/2021	236							270	
3/8/2021							102		
3/12/2021									
4/14/2021									256
4/15/2021									
9/9/2021									
9/10/2021		271					93.2		
9/13/2021	174			147	275				
9/14/2021			456			299		243	278
1/20/2022							93.1		293
1/24/2022			423		276	277		238	
1/25/2022				132					
1/26/2022	144								
1/27/2022		231							

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
1/30/2019			74.7
10/21/2019			55.3
9/24/2020			50.6
9/28/2020		211	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		225	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			46.5
4/14/2021			
4/15/2021	556		
9/9/2021			49.2
9/10/2021			
9/13/2021		189	
9/14/2021	552		
1/20/2022	475		50.3
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		185	

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	87.9								
1/30/2019		292							
10/21/2019		302		334	103				
10/22/2019	56.5								
10/24/2019			8.6						
11/22/2019						619			
12/18/2019							481		
12/19/2019								533	
2/17/2020									242
9/24/2020			2.9						
9/25/2020					107	344			
9/28/2020				287				419	
3/4/2021			4.9		113				
3/5/2021						497			
3/9/2021								488	
9/13/2021						321			
9/14/2021	73.2	268	2.5	326					
9/15/2021							384	478	551
9/16/2021					106				
1/20/2022	49.4		<1						
1/21/2022					106				
1/25/2022		240		363					
1/26/2022							305	477	531
1/27/2022						371			

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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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	
2/17/2020	150
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	325
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	18.4
1/27/2022	



# Time Series

Constituent: Thallium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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 4/13/2022 4:21 PM View: AP 234  
 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 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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			





# Time Series

Constituent: Thallium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
8/17/2020			<0.001
9/22/2020		0.00043 (J)	
9/23/2020	0.0002 (J)		
9/24/2020			
9/25/2020			<0.001
3/1/2021			
3/2/2021	0.00019 (J)	<0.001	
3/3/2021			
3/8/2021			<0.001

# Time Series

Constituent: Thallium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
9/9/2021			
9/10/2021		0.0004 (J)	
9/13/2021	0.00019 (J)		<0.001
1/20/2022			
1/21/2022			<0.001
1/24/2022			
1/25/2022	0.00019 (J)		
1/26/2022		<0.001	



# Time Series

Constituent: Thallium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020									
9/24/2020									
9/28/2020									
12/9/2020			<0.001		<0.001	<0.001		<0.001	
12/17/2020		<0.001		<0.001					
1/11/2021		<0.001							
1/12/2021	<0.001		<0.001					<0.001	
1/13/2021							<0.001		
3/3/2021									
3/4/2021		<0.001	<0.001	<0.001	<0.001	<0.001			
3/5/2021	<0.001							<0.001	
3/8/2021							<0.001		
3/12/2021									
4/14/2021									<0.001
4/15/2021									
9/9/2021									
9/10/2021		<0.001					<0.001		
9/13/2021	<0.001			<0.001	<0.001				
9/14/2021			<0.001			<0.001		<0.001	<0.001
1/20/2022							<0.001		<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							

# Time Series

Constituent: Thallium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62
1/30/2019			<0.001
9/11/2019			<0.001
10/21/2019			<0.001
8/13/2020			<0.001
8/17/2020		0.00016 (J)	
9/24/2020			<0.001
9/28/2020		0.00023 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		0.00026 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.001
4/14/2021			
4/15/2021	<0.001		
9/9/2021			<0.001
9/10/2021			
9/13/2021		0.00024 (J)	
9/14/2021	<0.001		
1/20/2022	<0.001		<0.001
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.00032 (J)	

# Time Series

Constituent: Thallium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	<0.001								
1/30/2019		<0.001							
9/11/2019	<0.001								
9/12/2019		<0.001							
9/18/2019			<0.001						
9/23/2019				9.9E-05 (J)					
10/21/2019		<0.001		0.00011 (J)	7.2E-05 (J)				
10/22/2019	<0.001								
10/24/2019			<0.001						
8/13/2020			<0.001						
8/14/2020					<0.001				
8/17/2020				<0.001		<0.001			
8/19/2020								<0.001	
9/24/2020			<0.001						
9/25/2020					<0.001	<0.001			
9/28/2020				<0.001				<0.001	
3/4/2021			<0.001		<0.001				
3/5/2021						0.0002 (J)			
3/9/2021								<0.001	
9/13/2021						<0.001			
9/14/2021	<0.001	<0.001	<0.001	<0.001					
9/15/2021							<0.001	<0.001	<0.001
9/16/2021					<0.001				
1/20/2022	<0.001		<0.001						
1/21/2022					<0.001				
1/25/2022		<0.001		<0.001					
1/26/2022							<0.001	<0.001	<0.001
1/27/2022						<0.001			

# Time Series

Constituent: Thallium (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	<0.001
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	<0.001
1/27/2022	

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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 [TDS] (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
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 [TDS] (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-17	DGWC-19	DGWC-2
1/20/2022			238
1/24/2022	426		
1/25/2022		694	
1/26/2022			
1/28/2022			



# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

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					
9/25/2020									
3/1/2021					1140				
3/2/2021	742								730
3/3/2021		459	442	425		531	228	521	
3/8/2021									
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			



# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-100
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			
9/25/2020			724
3/1/2021			
3/2/2021	291	449	
3/3/2021			
3/8/2021			660
9/9/2021			
9/10/2021		466	
9/13/2021	306		636
1/20/2022			

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-8	DGWC-9	B-100
1/21/2022			638
1/24/2022			
1/25/2022	281		
1/26/2022		409	

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-102D	B-104D	B-106D	B-107D	B-108D	B-109D	B-111D	B-115D
1/30/2019									
10/21/2019									
9/24/2020									
9/28/2020									
12/9/2020			862		564	573		490	
12/17/2020		449		340					
1/11/2021		442							
1/12/2021	405		836					500	
1/13/2021							303		
3/3/2021									
3/4/2021		459	818	321	525	569			
3/5/2021	462							634	
3/8/2021							305		
3/12/2021									
4/14/2021									480
4/15/2021									
9/9/2021									
9/10/2021		474					284		
9/13/2021	343			296	567				
9/14/2021			776			576		586	499
1/20/2022							309		553
1/24/2022			806		552	502		566	
1/25/2022				295					
1/26/2022	290								
1/27/2022		459							

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-120D	B-56	B-62
1/30/2019			287
10/21/2019			180
9/24/2020			170
9/28/2020		320	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
1/13/2021			
3/3/2021		303	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			172
4/14/2021			
4/15/2021	982		
9/9/2021			174
9/10/2021			
9/13/2021		321	
9/14/2021	882		
1/20/2022	816		187
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		344	

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2019	204								
1/30/2019		601							
10/21/2019		617		458	214				
10/22/2019	178								
10/24/2019			106						
9/24/2020			124						
9/25/2020					244	624			
9/28/2020				454				686	
3/4/2021			128		234				
3/5/2021						798			
3/9/2021								790	
9/13/2021						572			
9/14/2021	170	490	94	536					
9/15/2021							612	812	892
9/16/2021					223				
1/20/2022	177		129						
1/21/2022					236				
1/25/2022		482		668					
1/26/2022							572	766	930
1/27/2022						654			

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/13/2022 4:21 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

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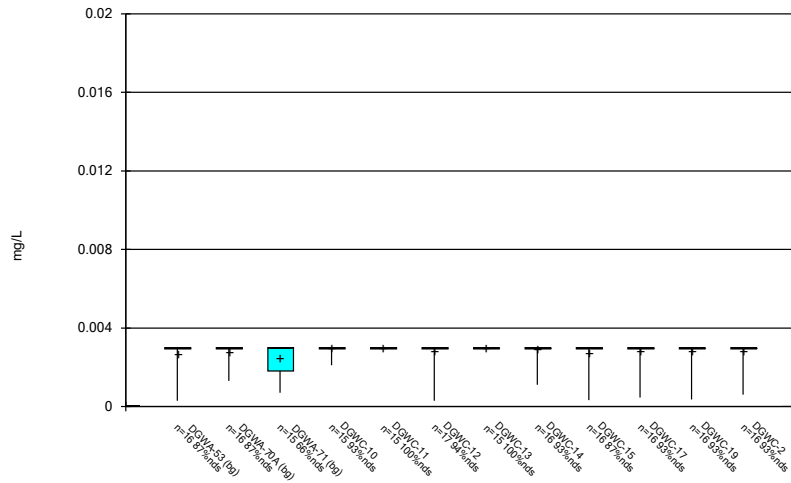
B-98

1/28/2019	
1/30/2019	
10/21/2019	
10/22/2019	
10/24/2019	
9/24/2020	
9/25/2020	
9/28/2020	
3/4/2021	
3/5/2021	
3/9/2021	
9/13/2021	
9/14/2021	
9/15/2021	524
9/16/2021	
1/20/2022	
1/21/2022	
1/25/2022	
1/26/2022	139
1/27/2022	



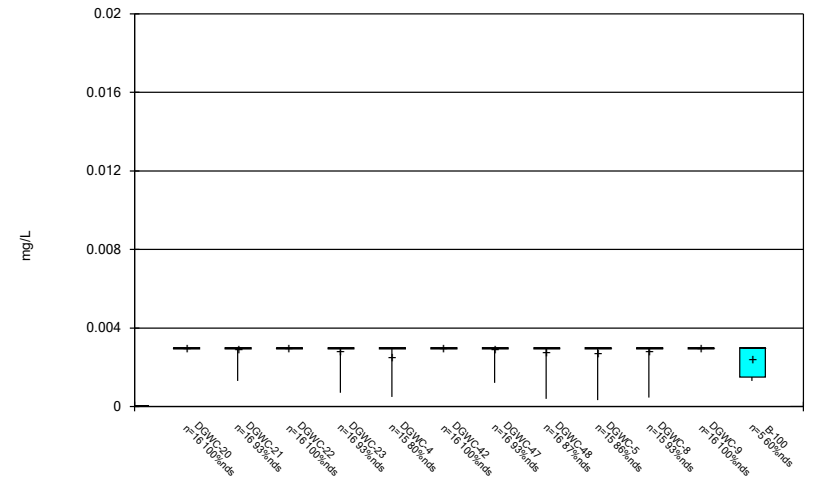
FIGURE B.

Box & Whiskers Plot



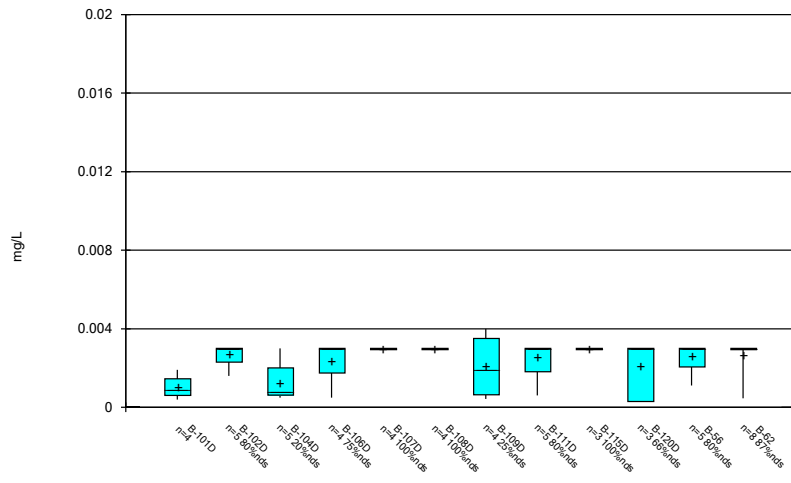
Constituent: Antimony Analysis Run 4/13/2022 4:22 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



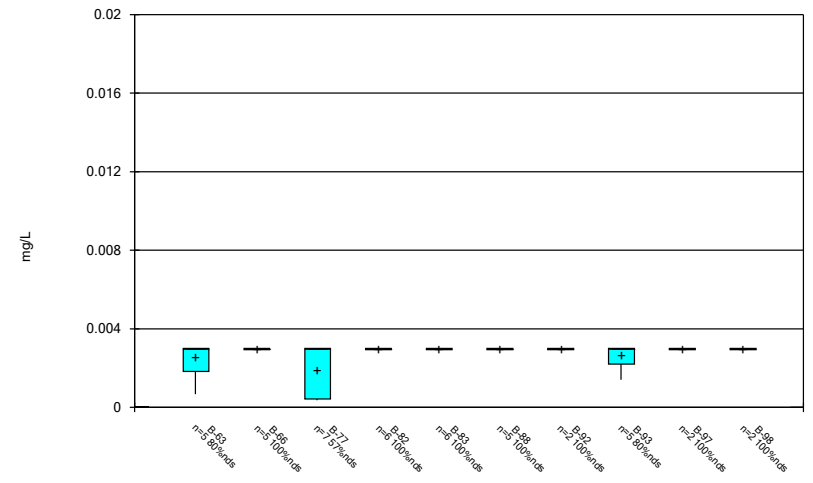
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



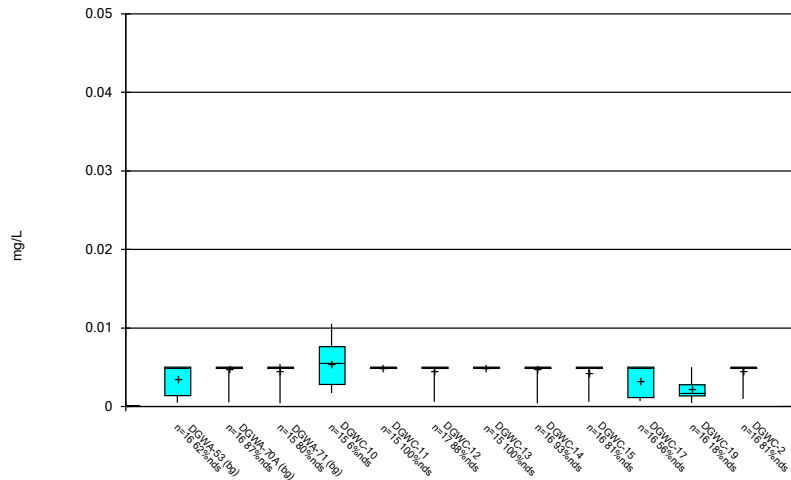
Constituent: Antimony Analysis Run 4/13/2022 4:22 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



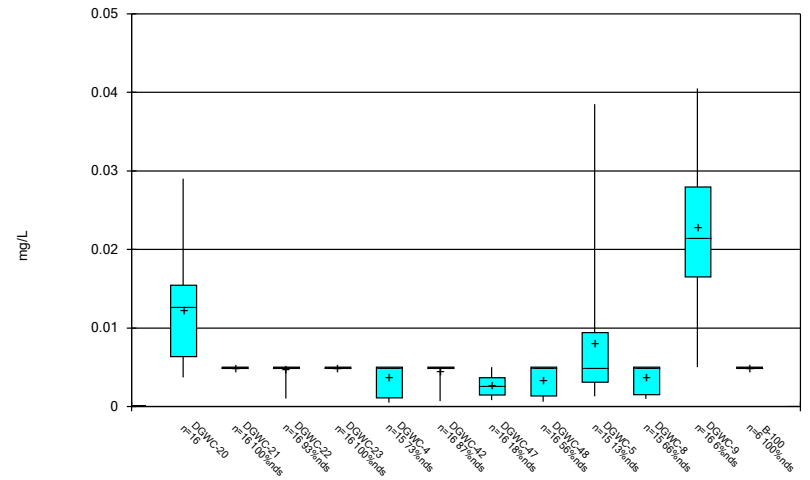
Constituent: Antimony Analysis Run 4/13/2022 4:22 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



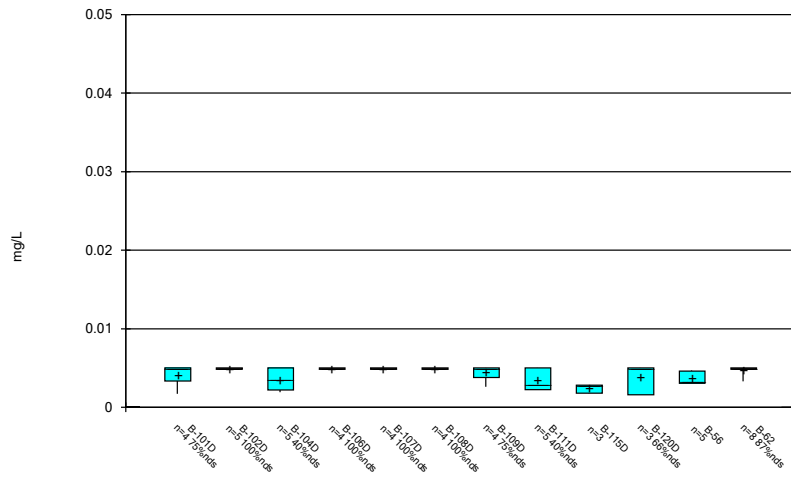
Constituent: Arsenic Analysis Run 4/13/2022 4:22 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



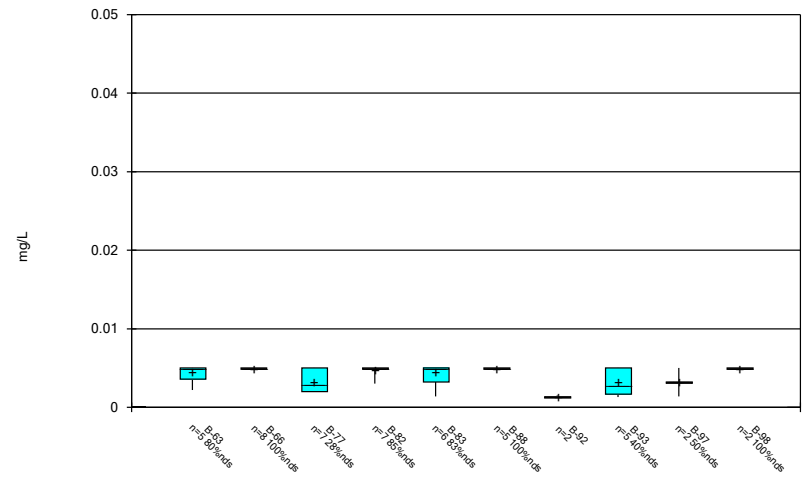
Constituent: Arsenic Analysis Run 4/13/2022 4:22 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



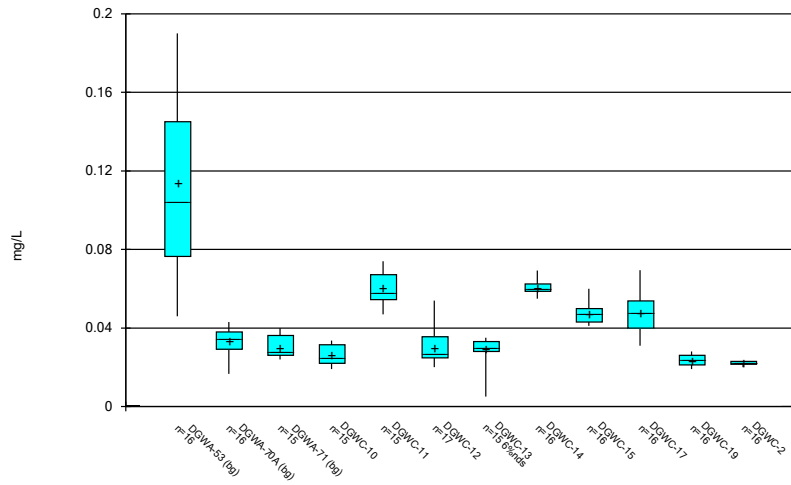
Constituent: Arsenic Analysis Run 4/13/2022 4:22 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



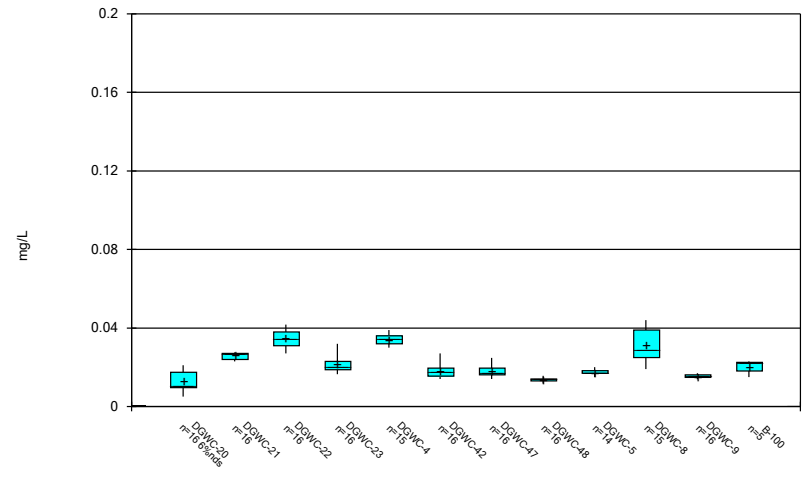
Constituent: Arsenic Analysis Run 4/13/2022 4:22 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



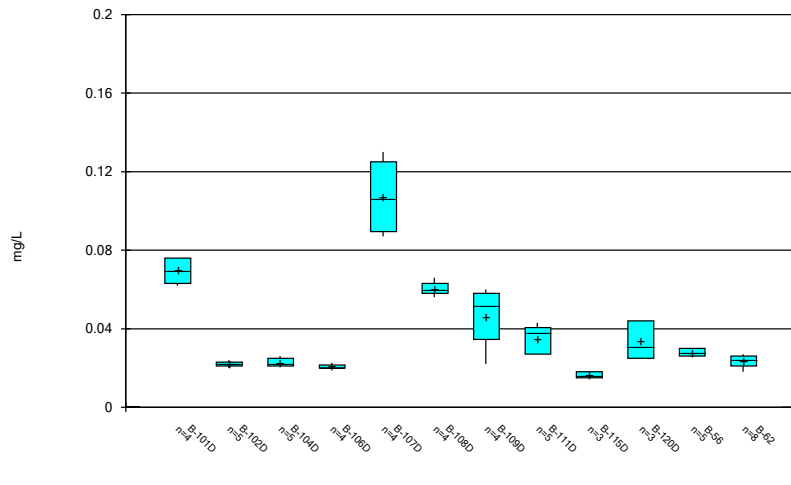
Constituent: Barium Analysis Run 4/13/2022 4:22 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



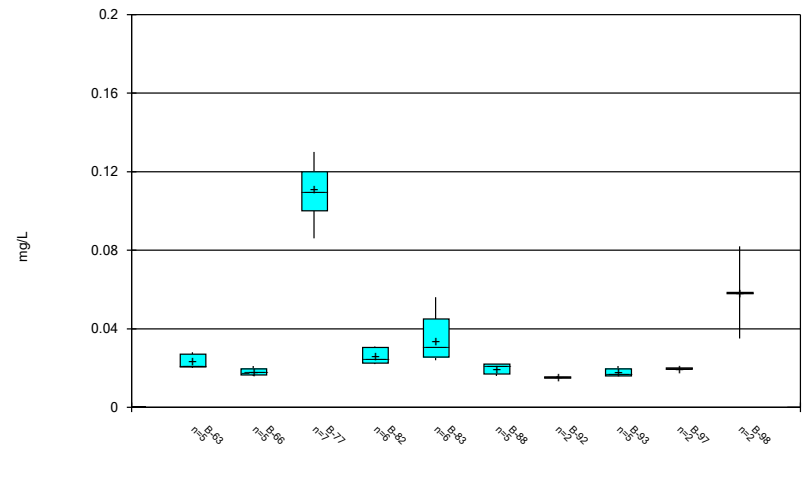
Constituent: Barium Analysis Run 4/13/2022 4:22 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



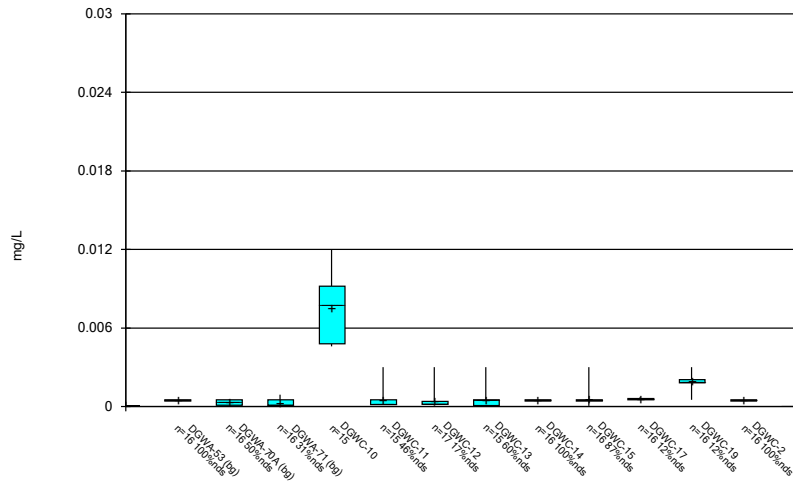
Constituent: Barium Analysis Run 4/13/2022 4:22 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



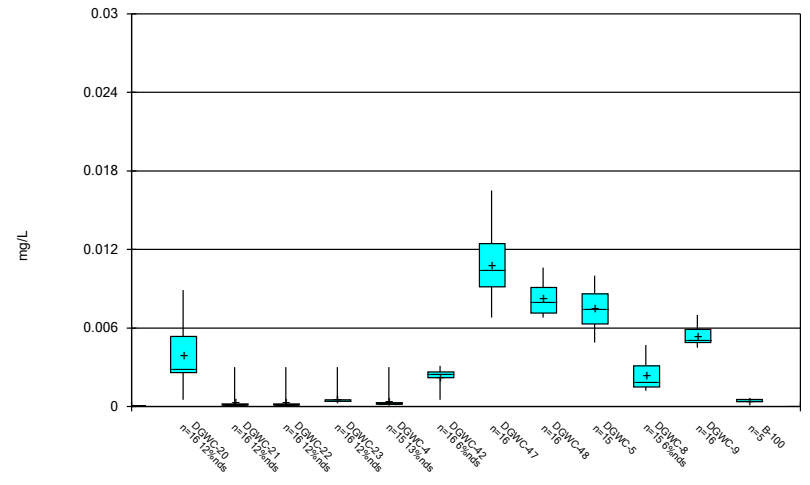
Constituent: Barium Analysis Run 4/13/2022 4:22 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



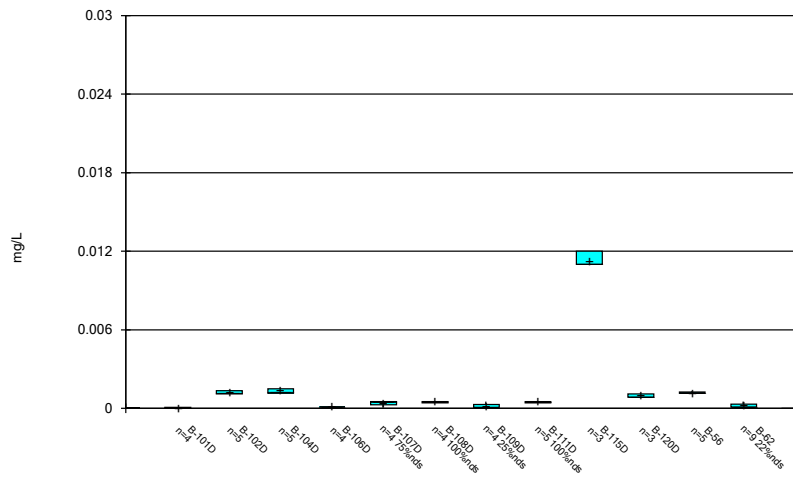
Constituent: Beryllium Analysis Run 4/13/2022 4:22 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



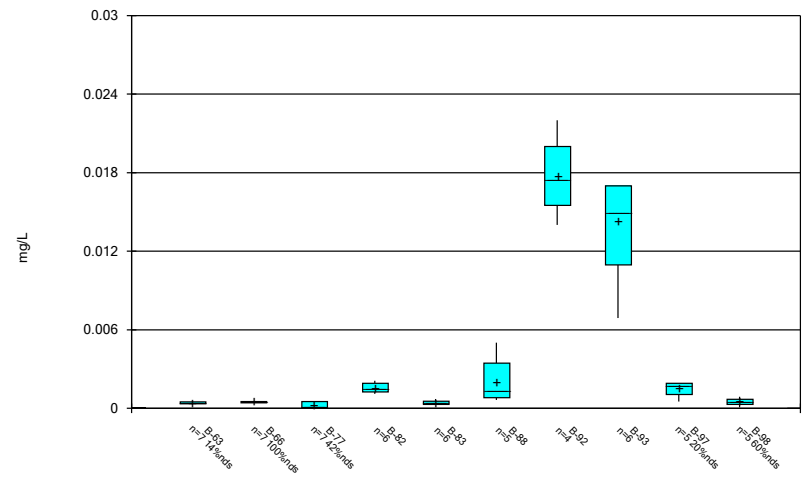
Constituent: Beryllium Analysis Run 4/13/2022 4:22 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



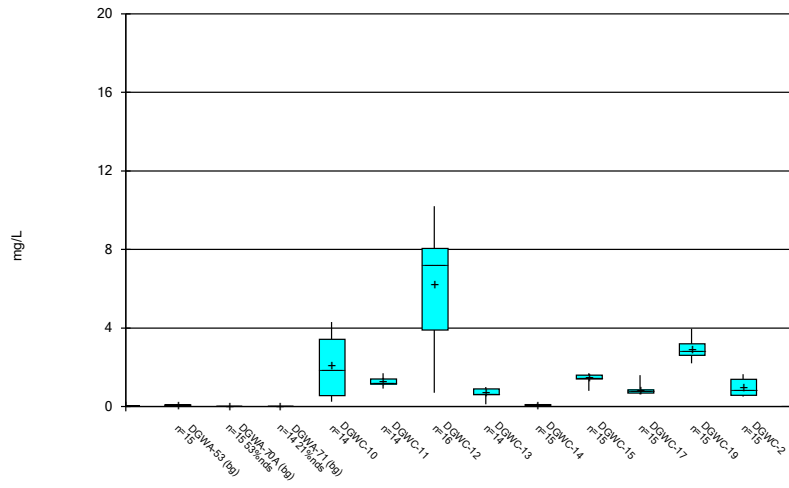
Constituent: Beryllium Analysis Run 4/13/2022 4:22 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



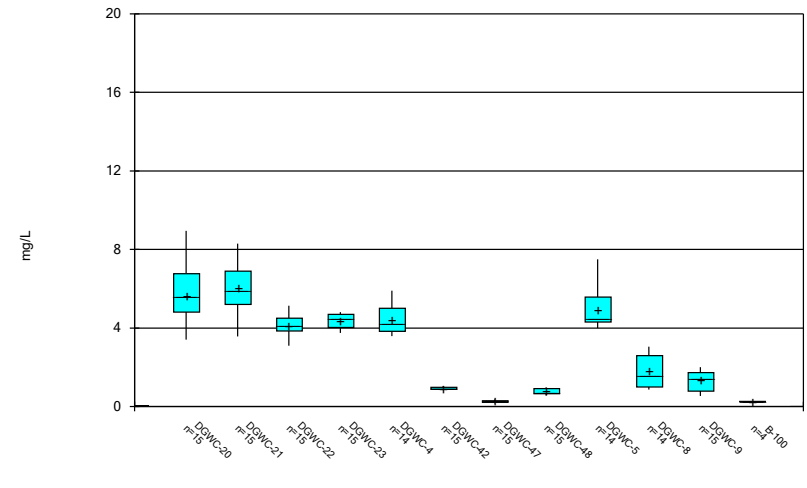
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



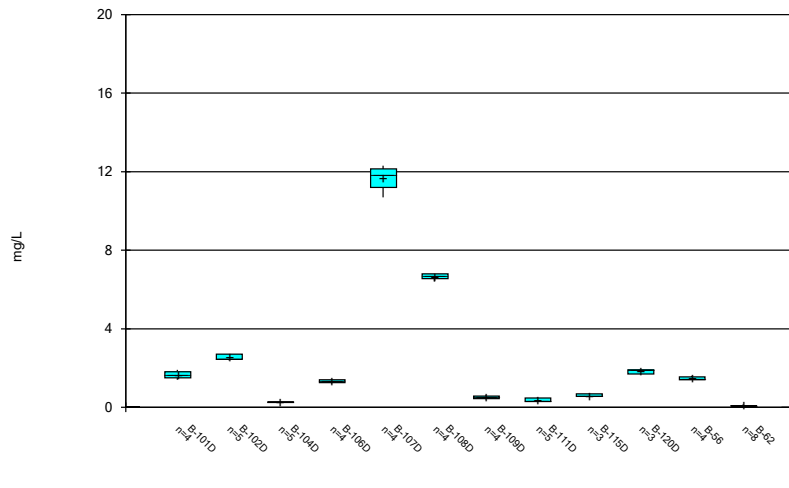
Constituent: Boron, total Analysis Run 4/13/2022 4:22 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



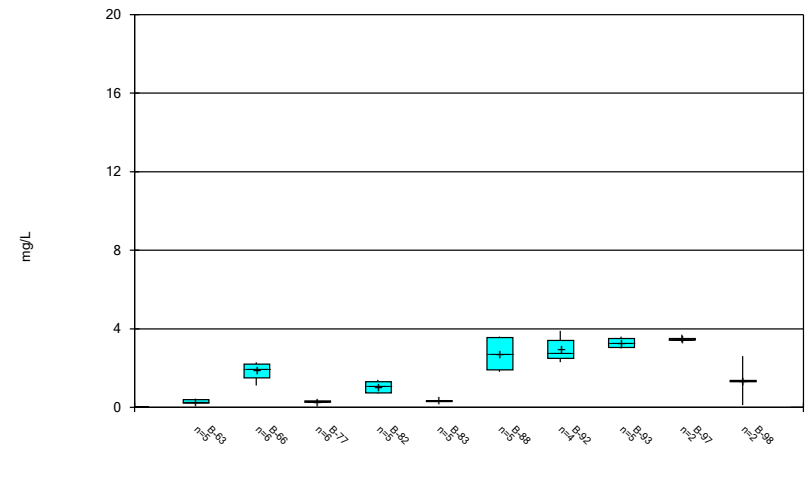
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



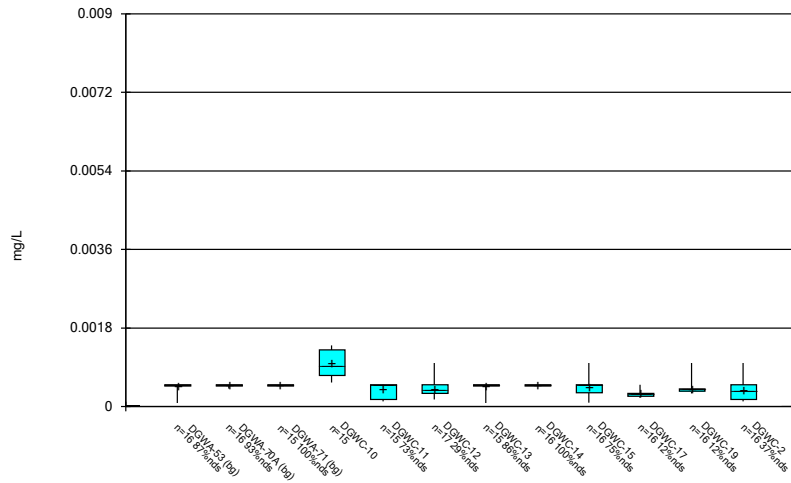
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



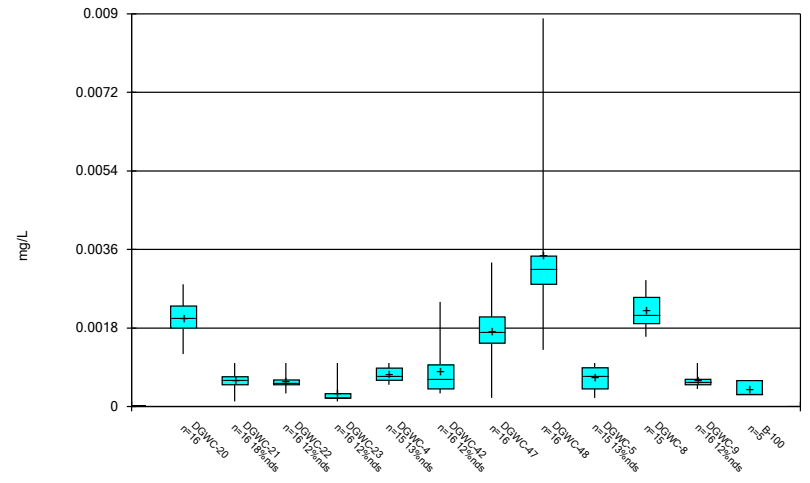
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



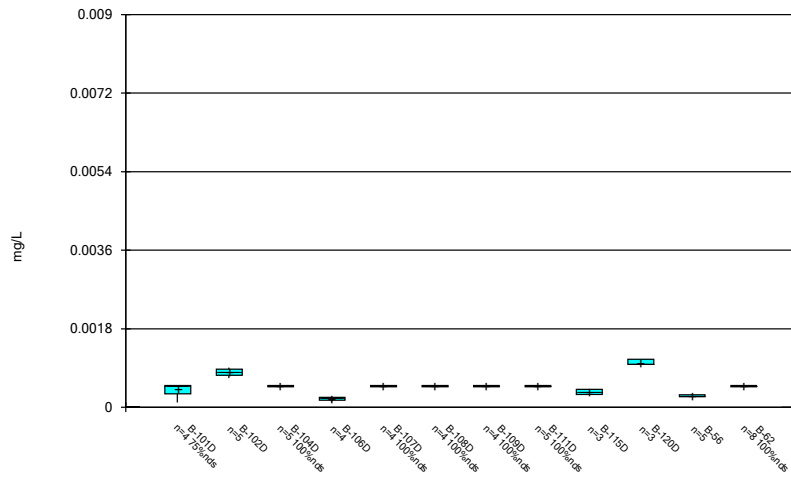
Constituent: Cadmium Analysis Run 4/13/2022 4:22 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



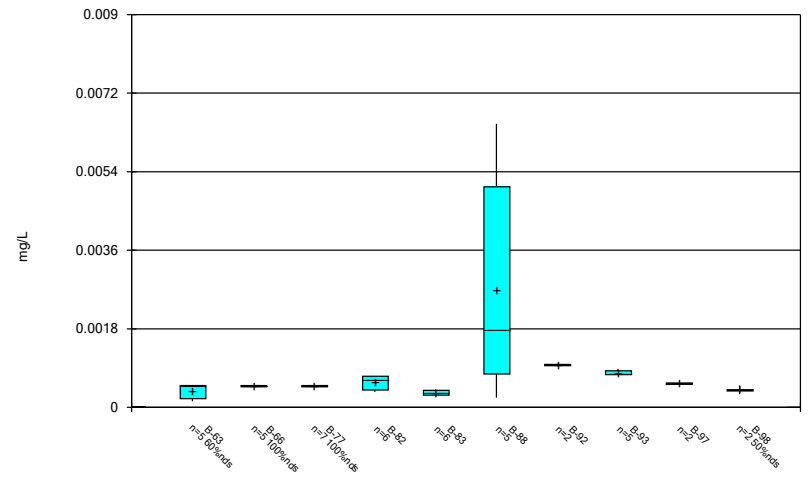
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



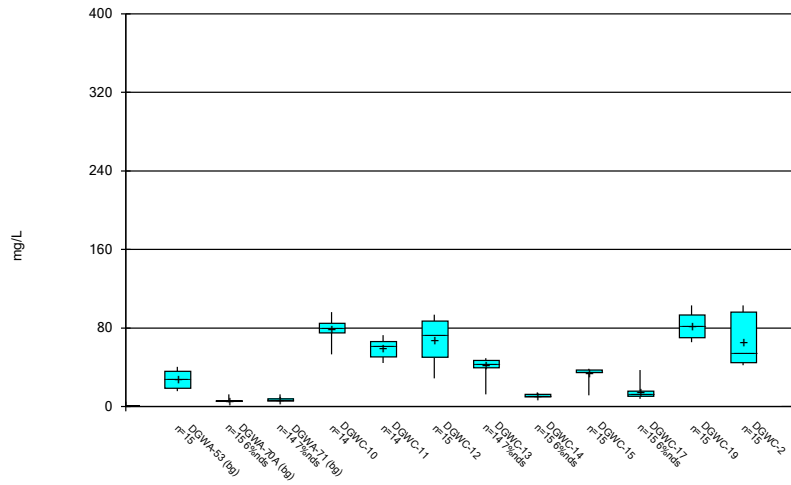
Constituent: Cadmium Analysis Run 4/13/2022 4:22 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



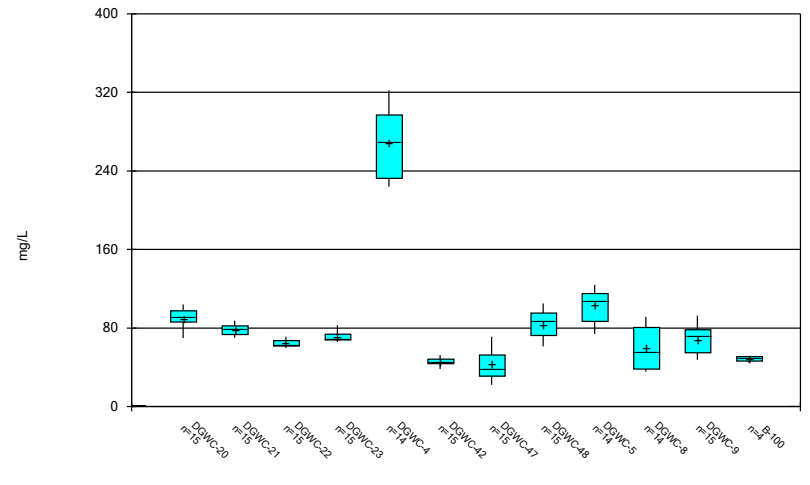
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



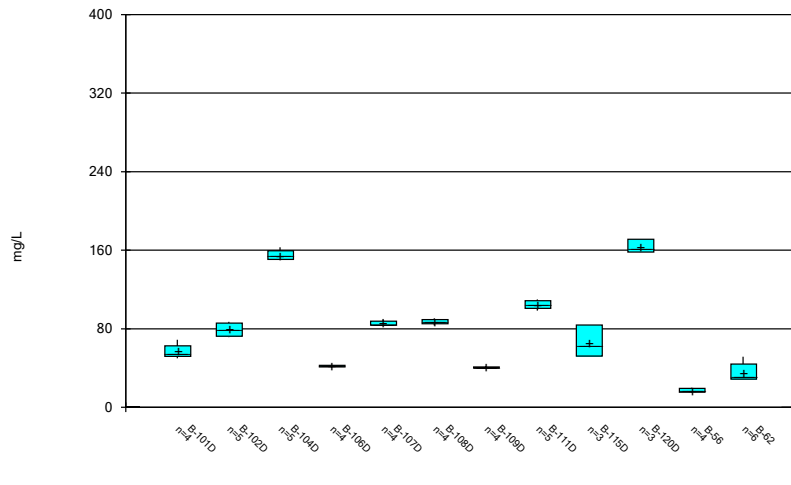
Constituent: Calcium, total Analysis Run 4/13/2022 4:22 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



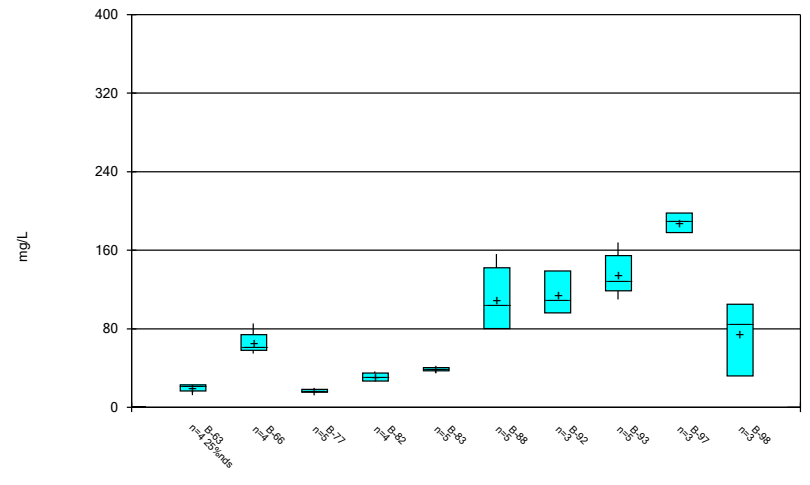
Constituent: Calcium, total Analysis Run 4/13/2022 4:22 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



Constituent: Calcium, total Analysis Run 4/13/2022 4:22 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

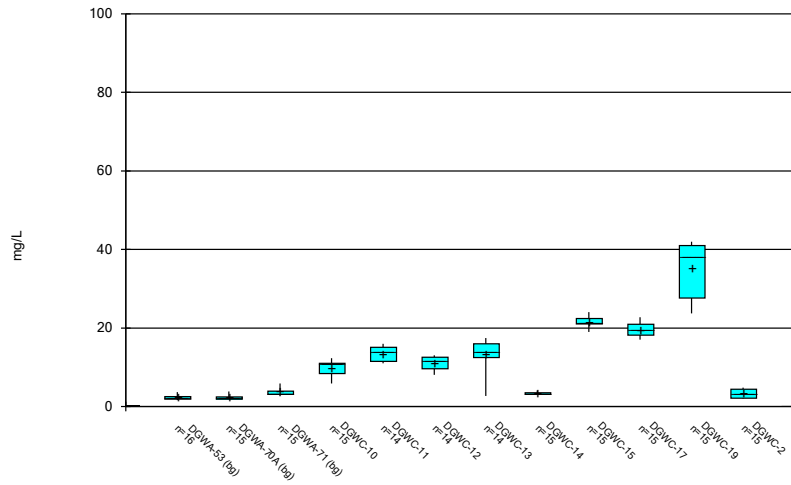
Box & Whiskers Plot



Constituent: Calcium, total Analysis Run 4/13/2022 4:22 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

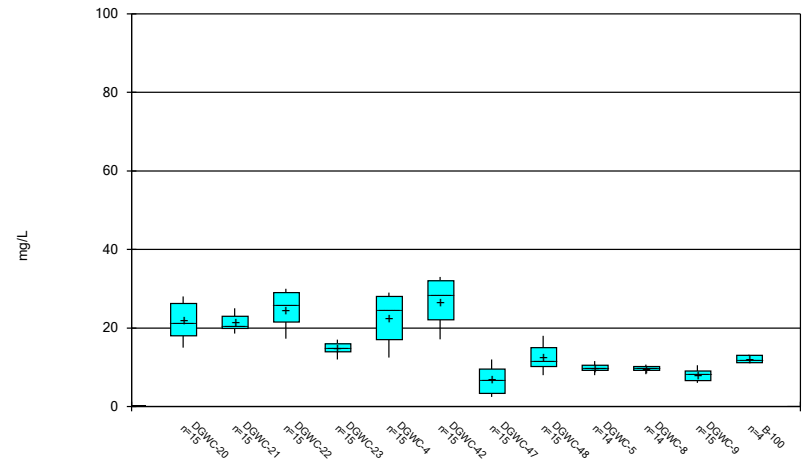


Box & Whiskers Plot



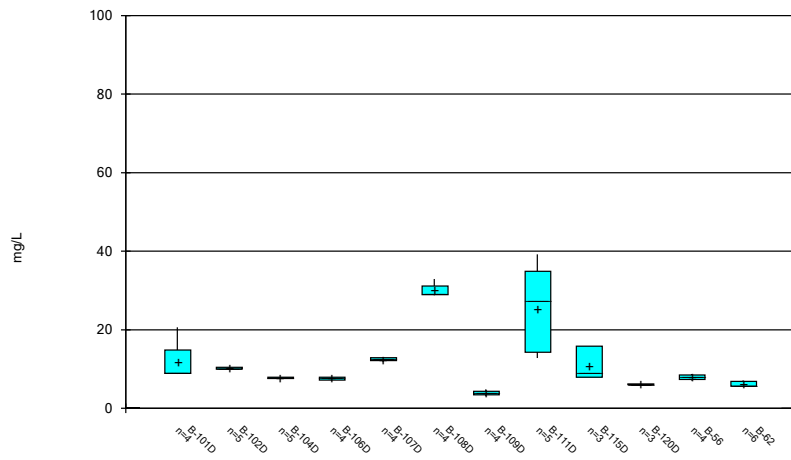
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



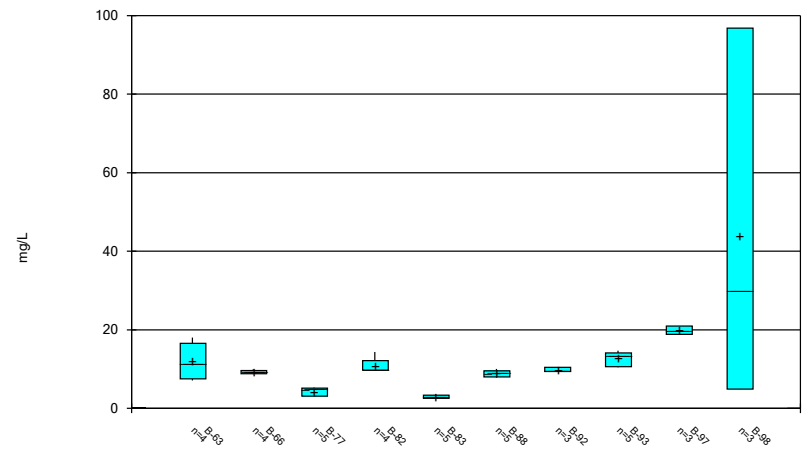
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Box & Whiskers Plot



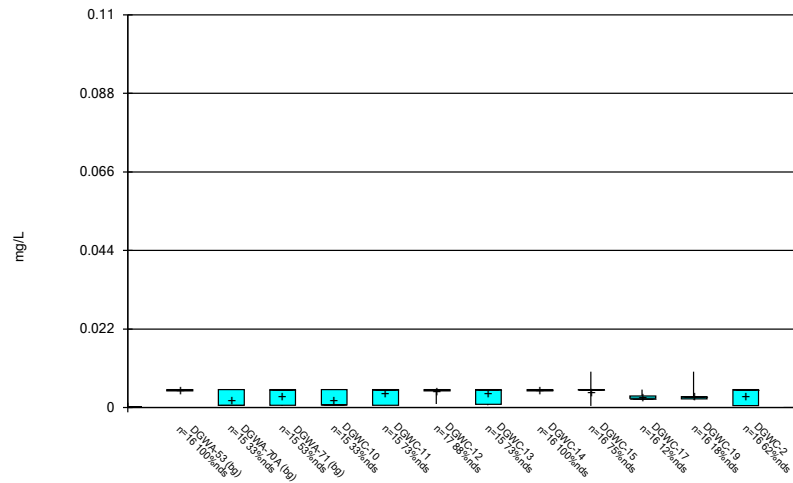
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Box & Whiskers Plot



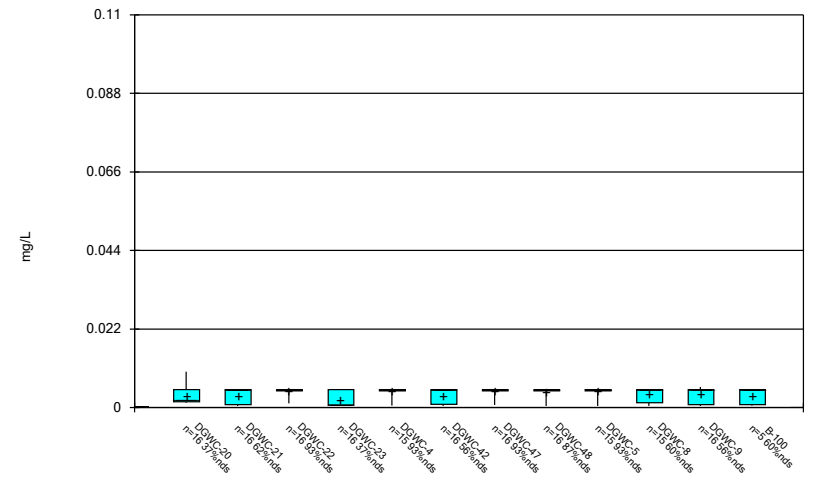
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



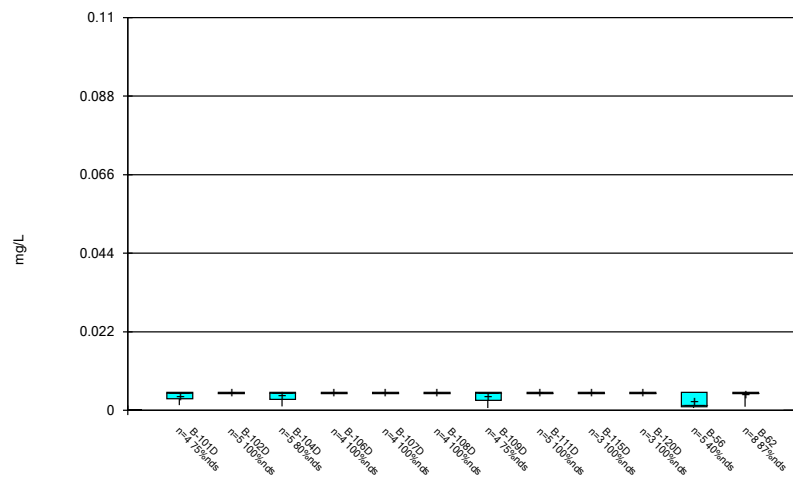
Constituent: Chromium Analysis Run 4/13/2022 4:22 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



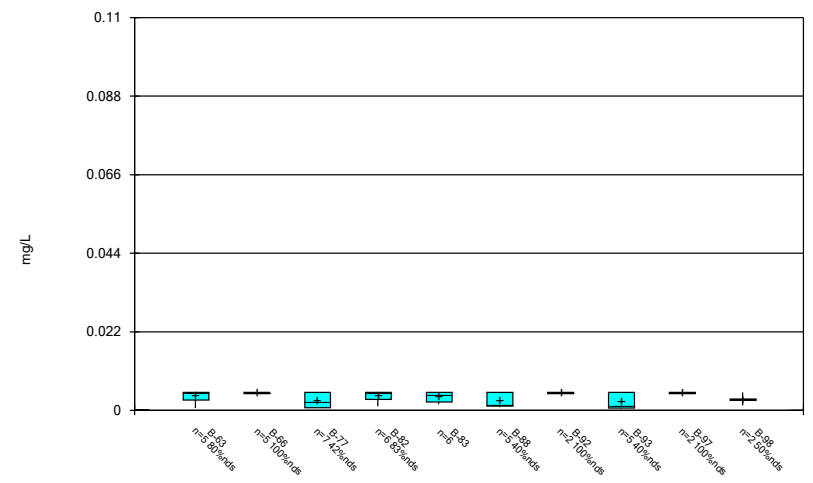
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



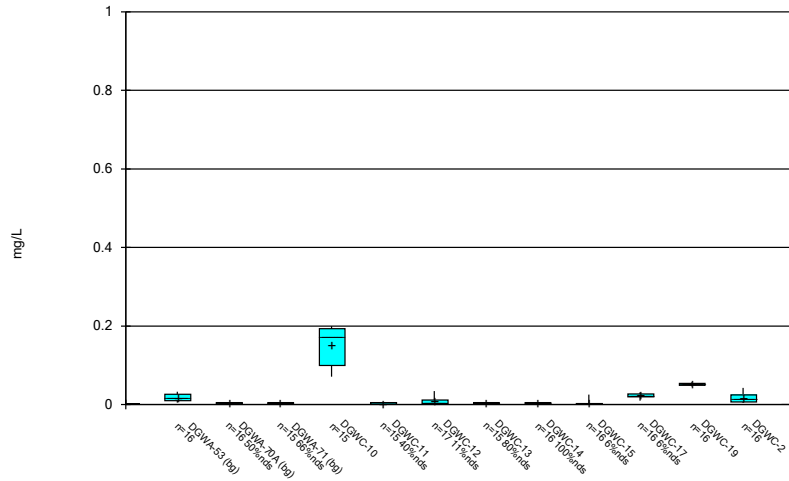
Constituent: Chromium Analysis Run 4/13/2022 4:22 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



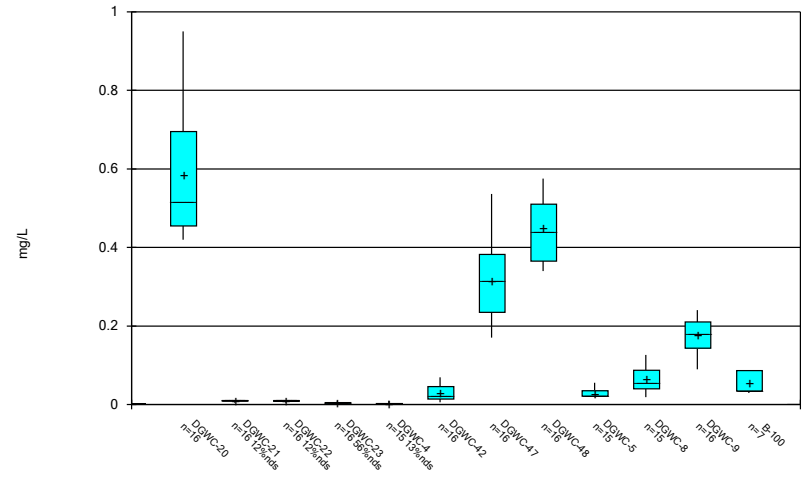
Constituent: Chromium Analysis Run 4/13/2022 4:22 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



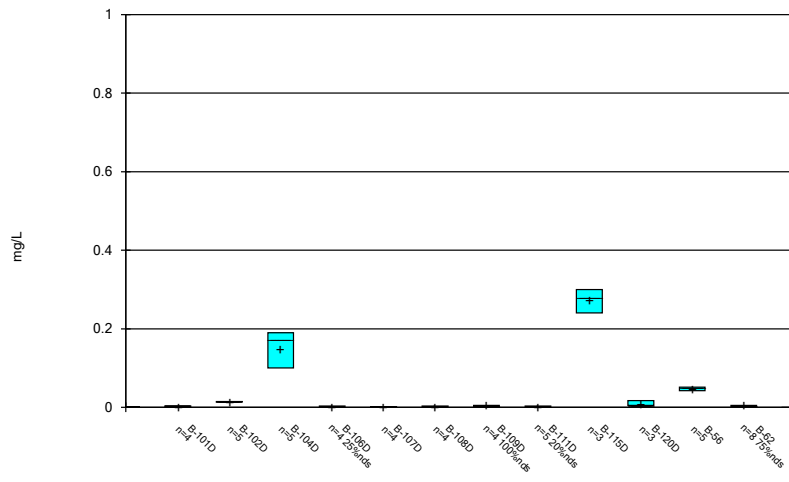
Constituent: Cobalt Analysis Run 4/13/2022 4:22 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



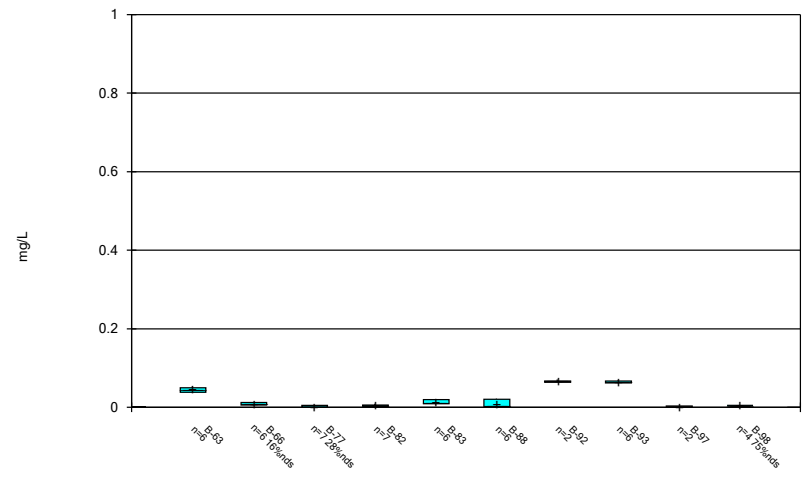
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Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



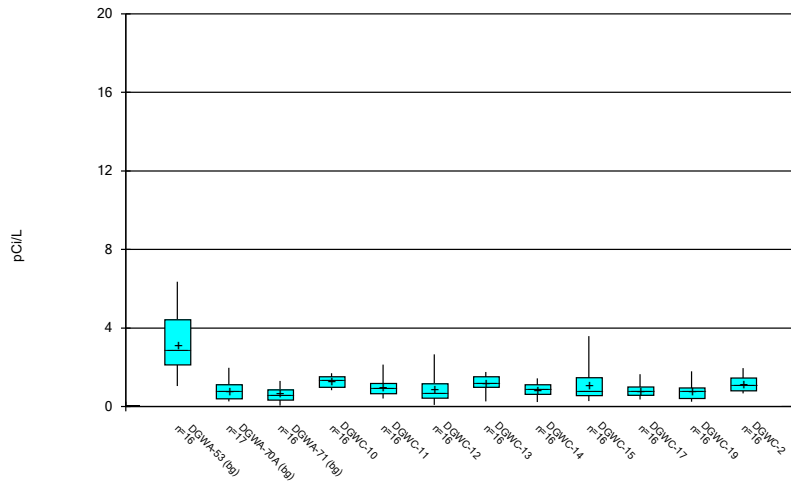
Constituent: Cobalt Analysis Run 4/13/2022 4:22 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



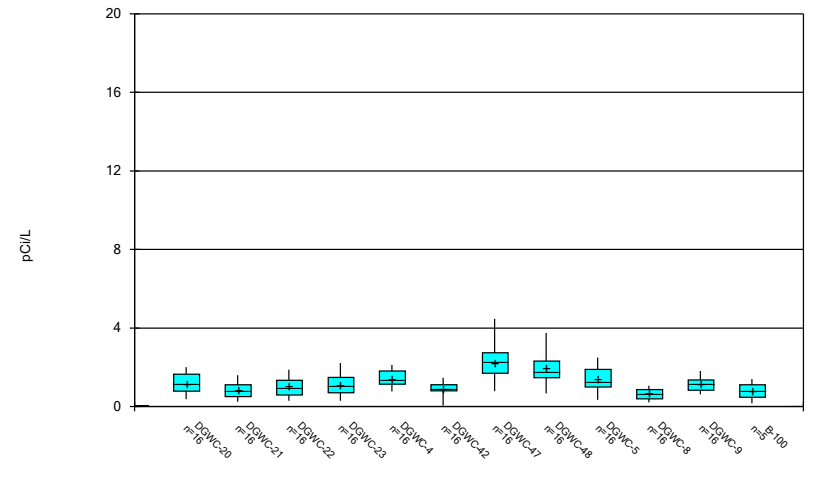
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Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



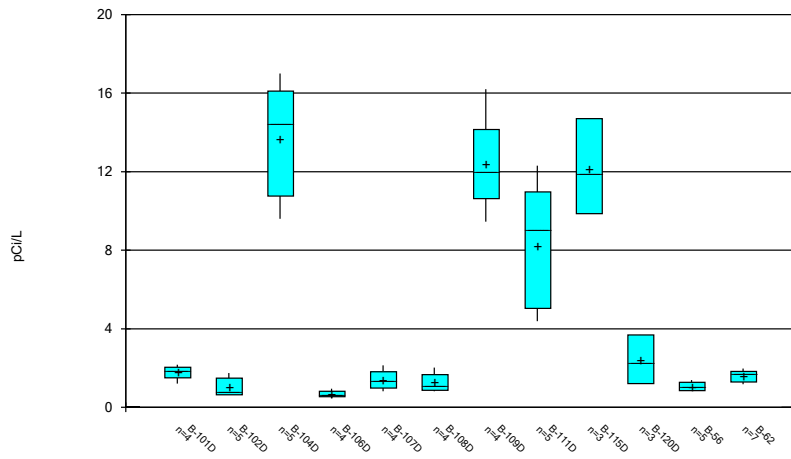
Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:22 PM View: AP 234  
Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



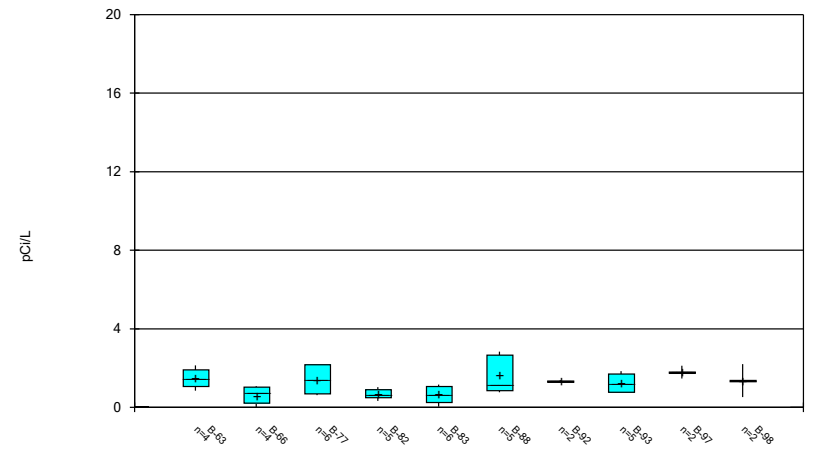
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Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



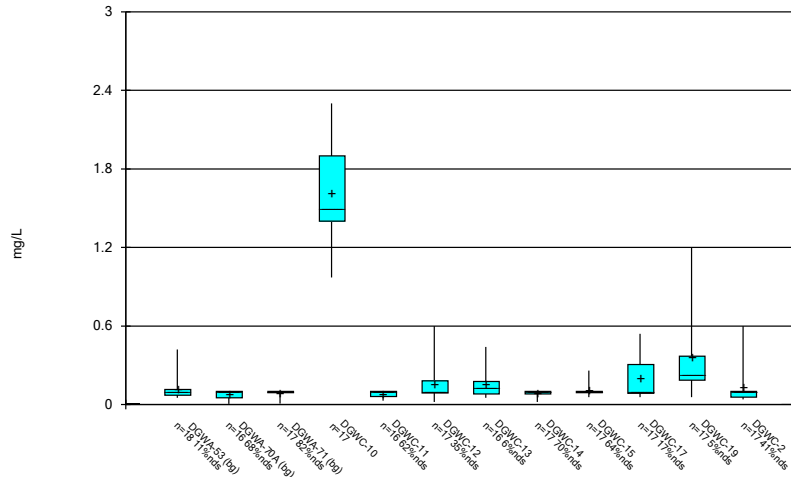
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Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



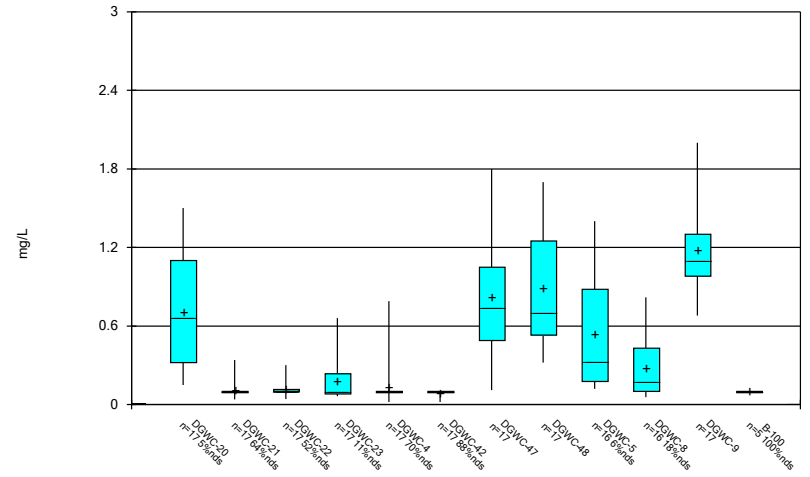
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Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



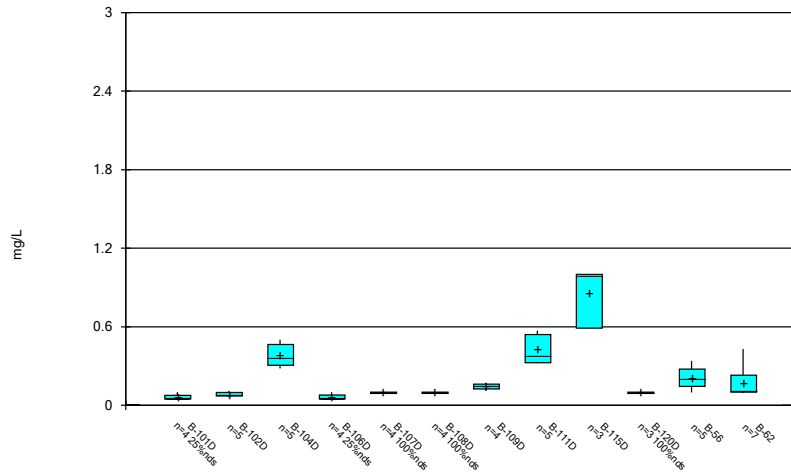
Constituent: Fluoride, total Analysis Run 4/13/2022 4:22 PM View: AP 234  
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### Box & Whiskers Plot



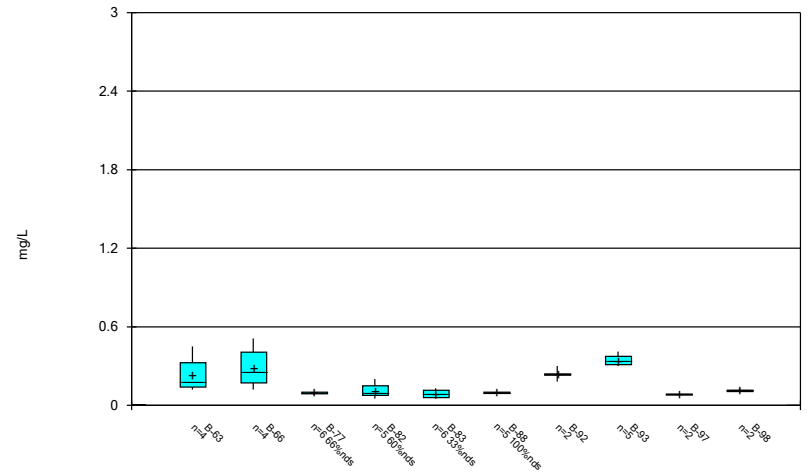
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### Box & Whiskers Plot



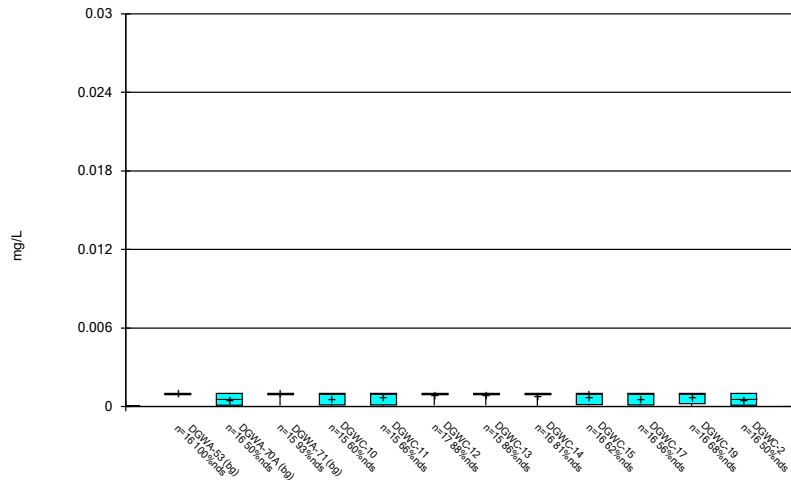
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### Box & Whiskers Plot



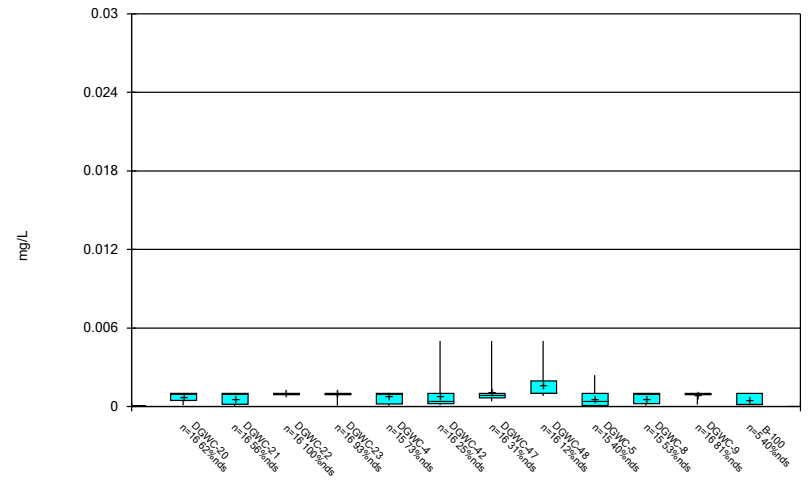
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



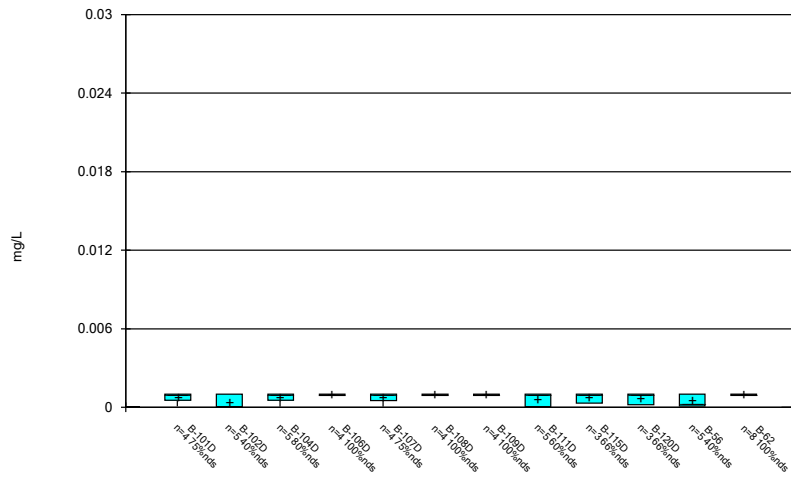
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



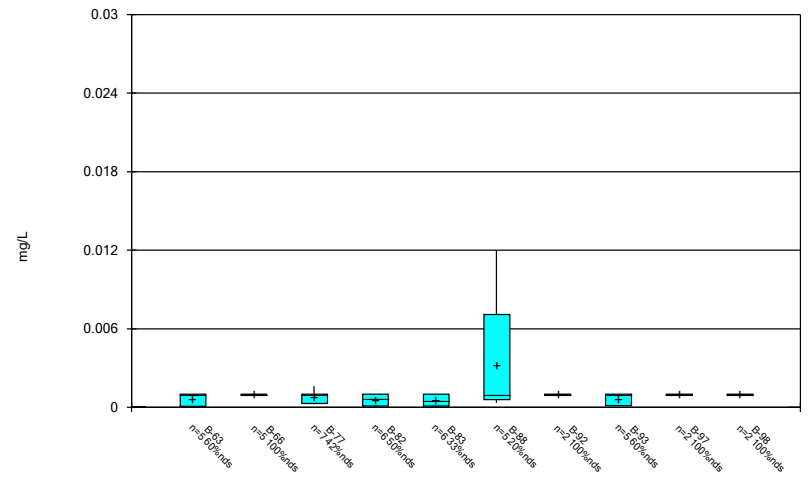
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



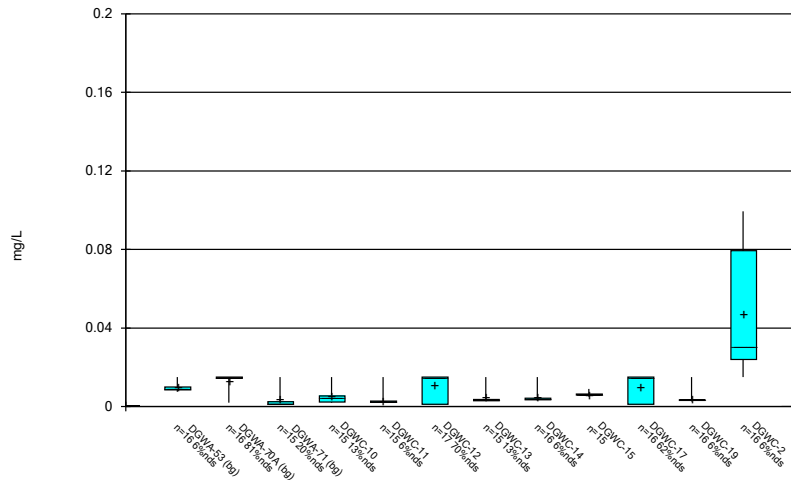
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



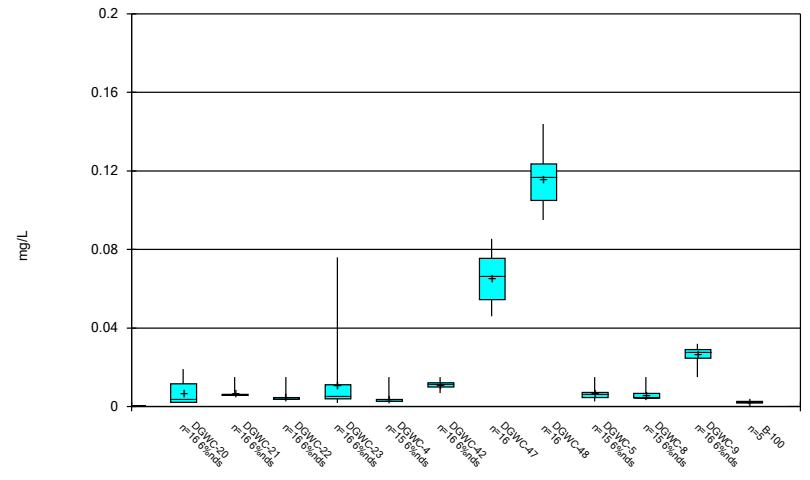
Constituent: Lead Analysis Run 4/13/2022 4:22 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



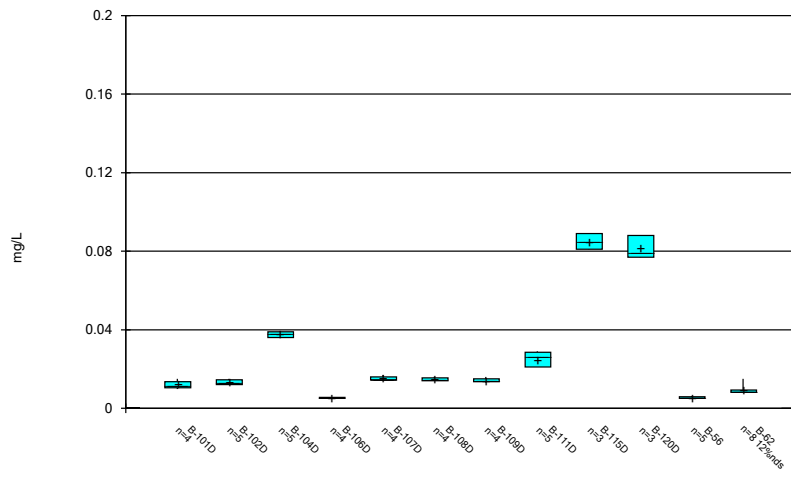
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



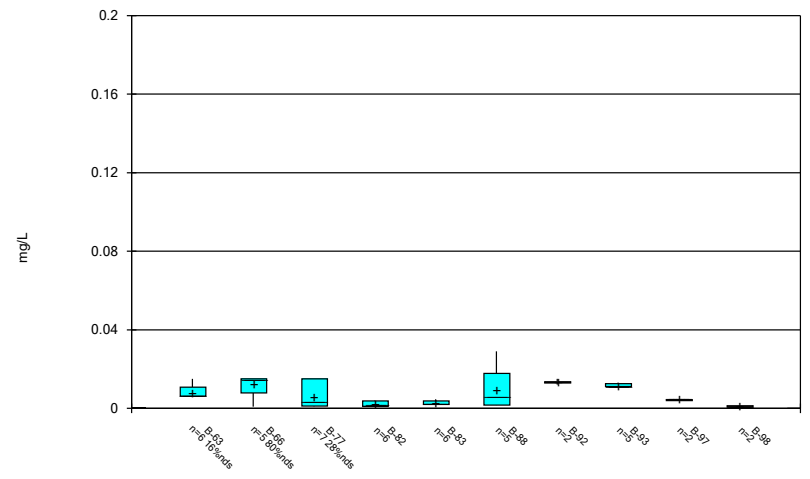
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



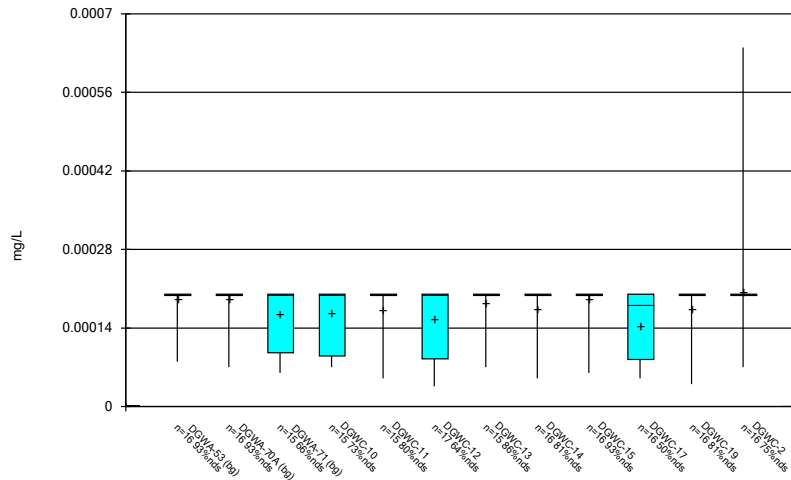
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



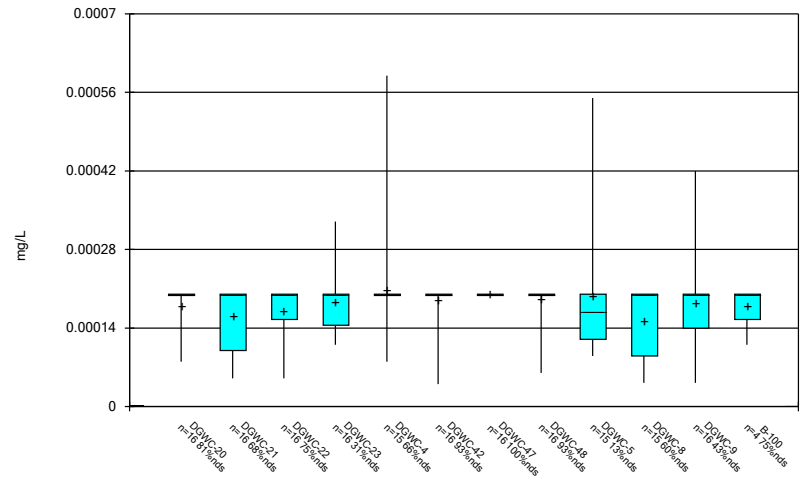
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



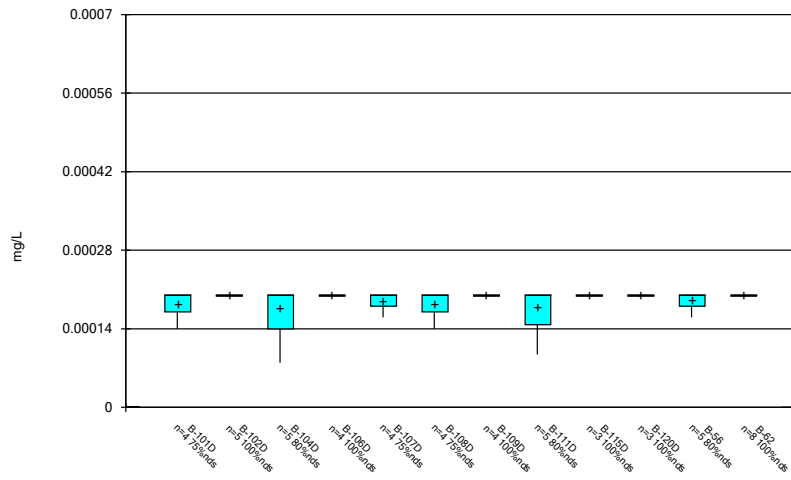
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



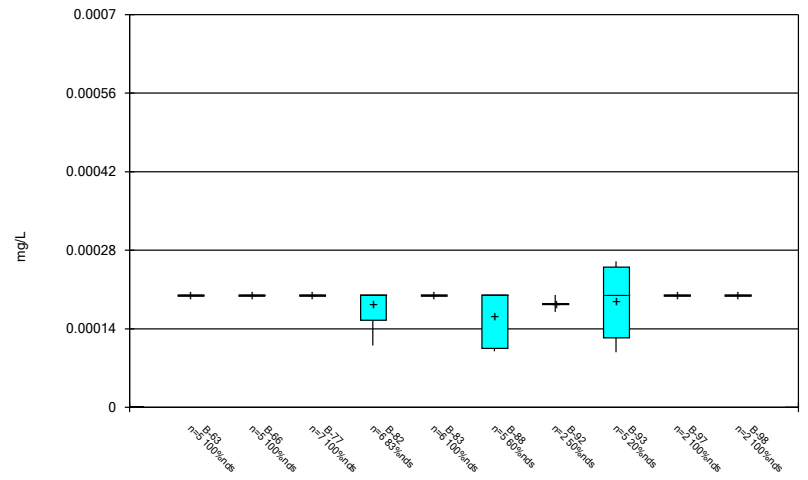
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 Plant McDonough Client: Southern Company Data: McDonough AP

### Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/13/2022 4:22 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

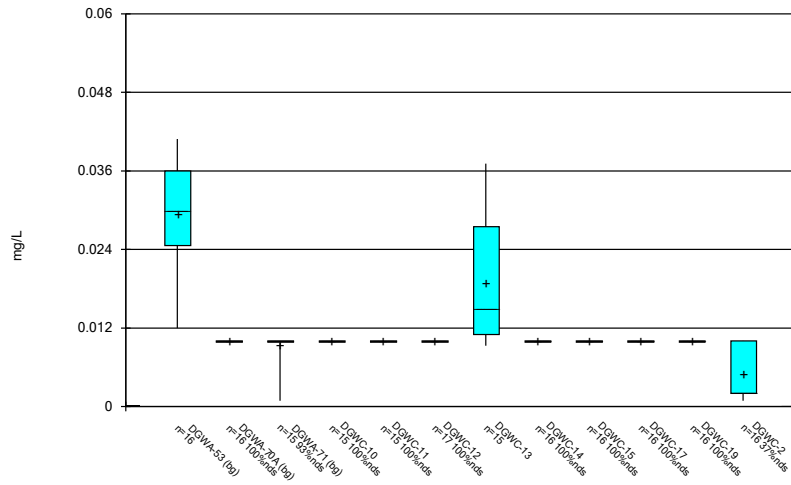
### Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/13/2022 4:22 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

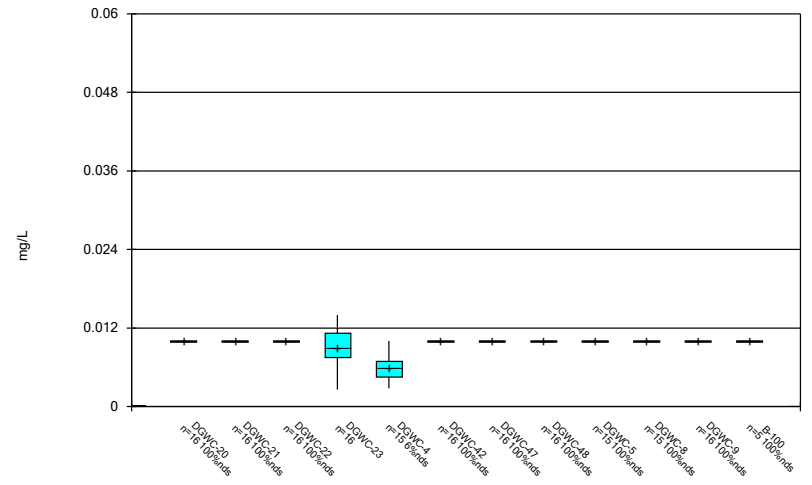


Box & Whiskers Plot



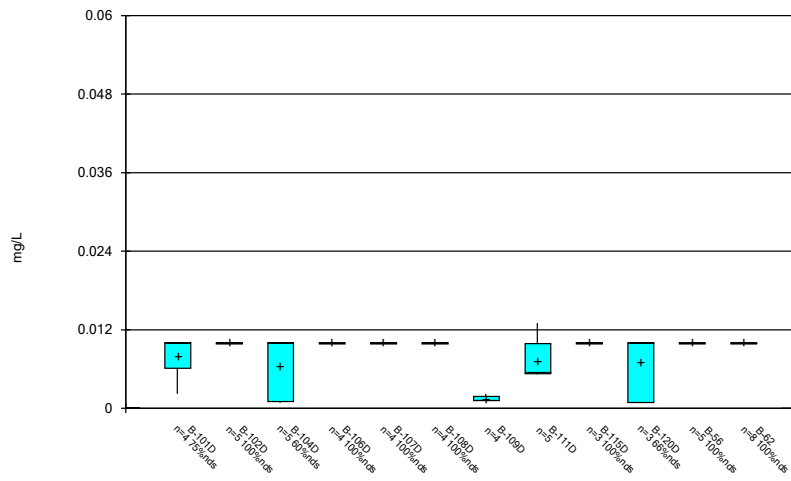
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



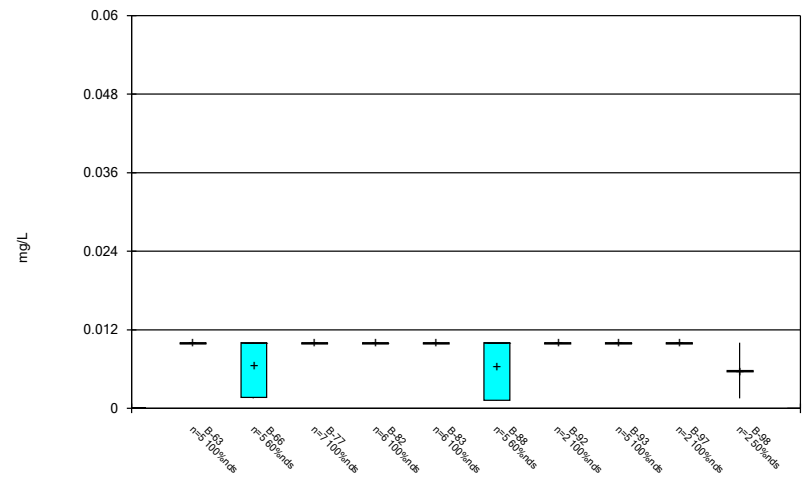
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



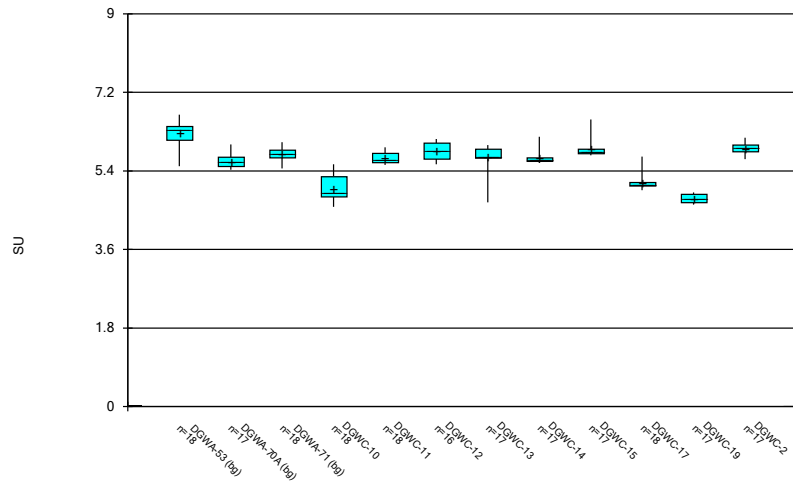
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



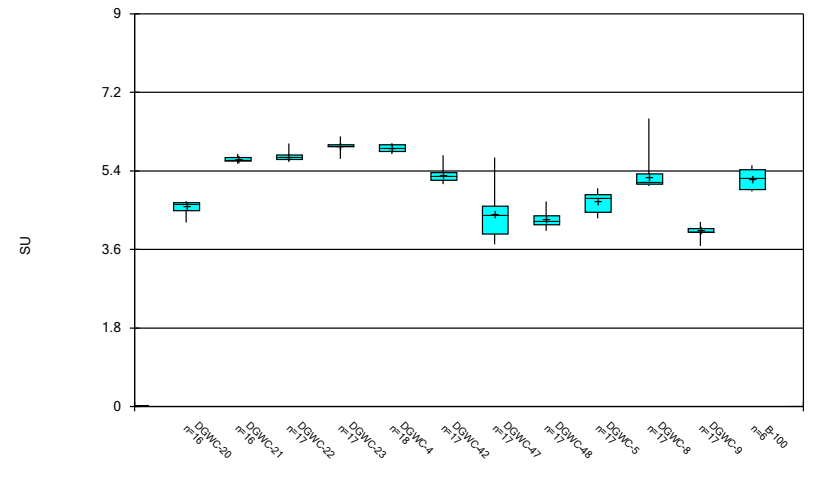
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



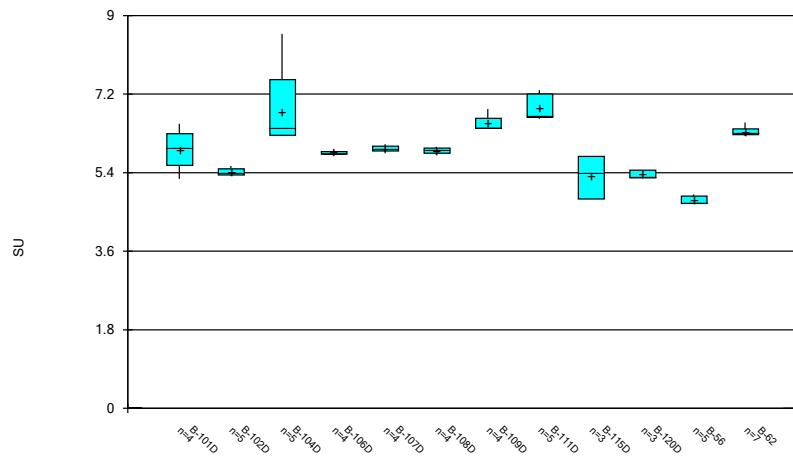
Constituent: pH, Field Analysis Run 4/13/2022 4:22 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



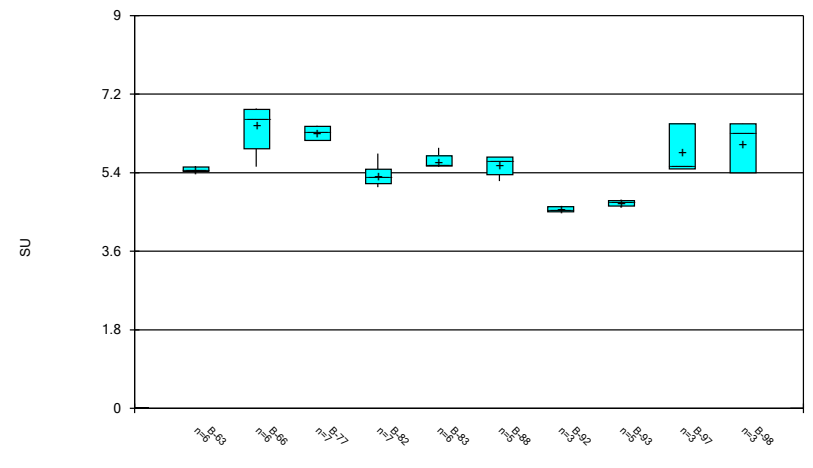
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



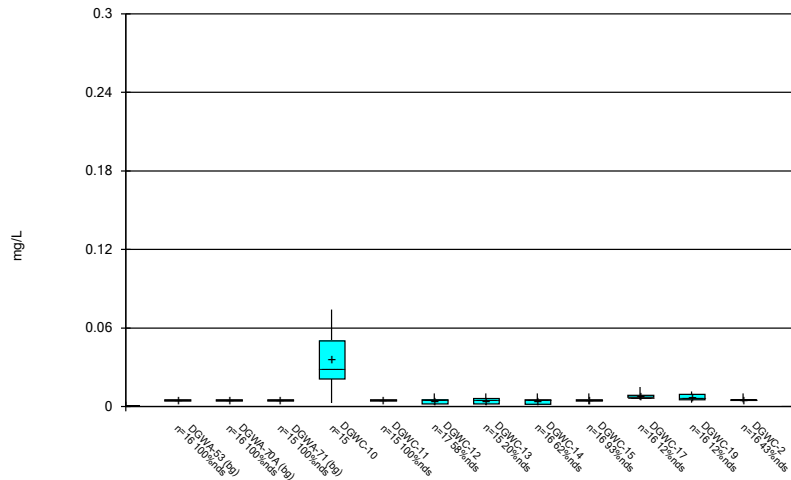
Constituent: pH, Field Analysis Run 4/13/2022 4:22 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



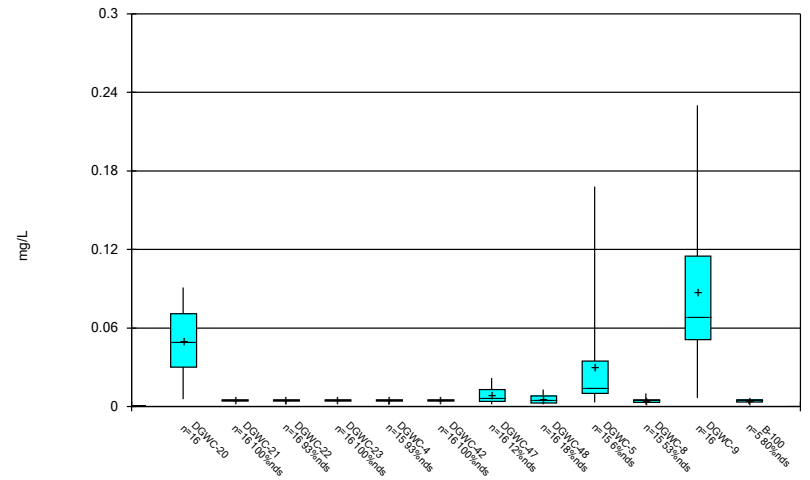
Constituent: pH, Field Analysis Run 4/13/2022 4:22 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



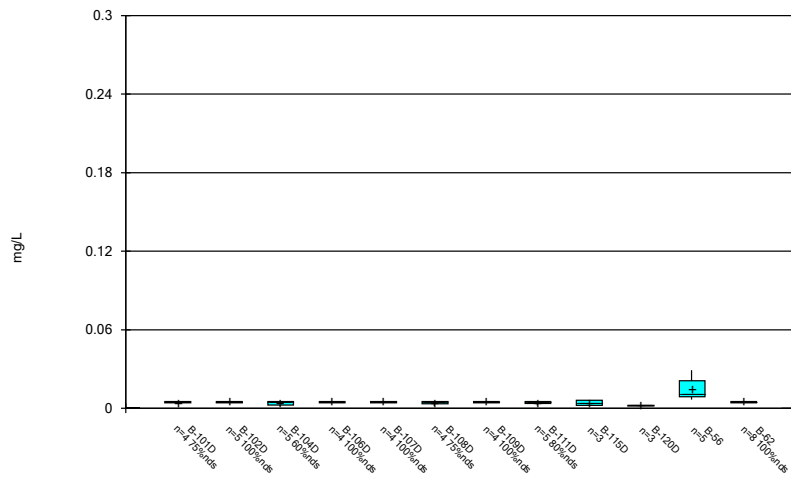
Constituent: Selenium Analysis Run 4/13/2022 4:22 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



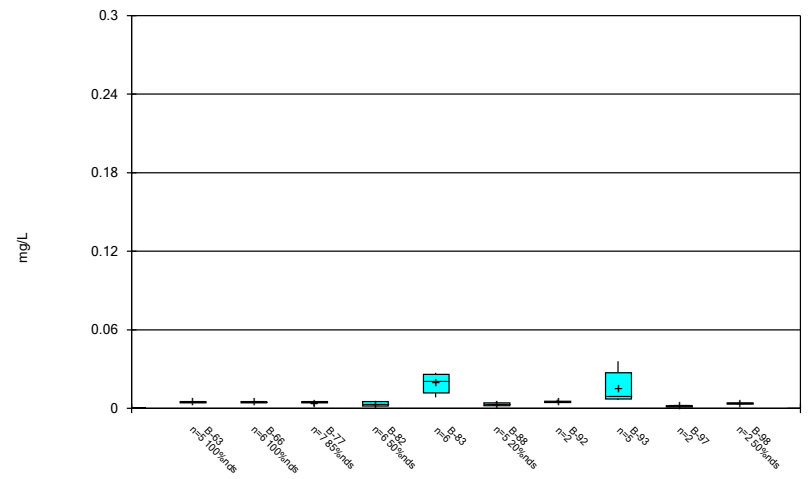
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



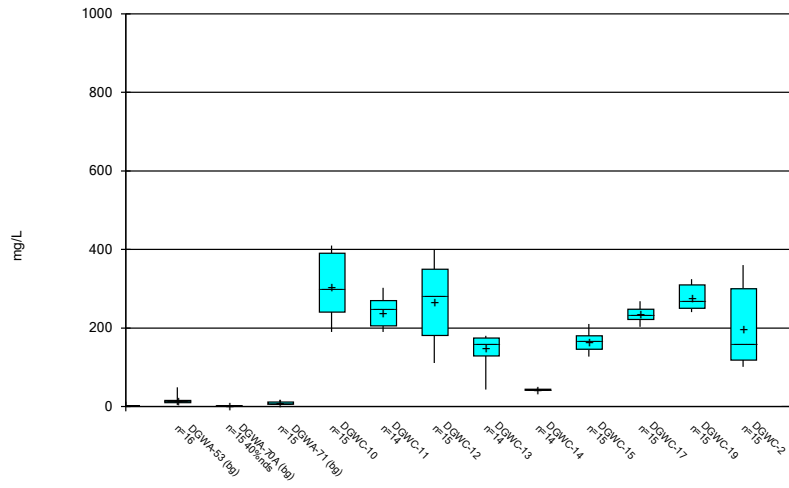
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



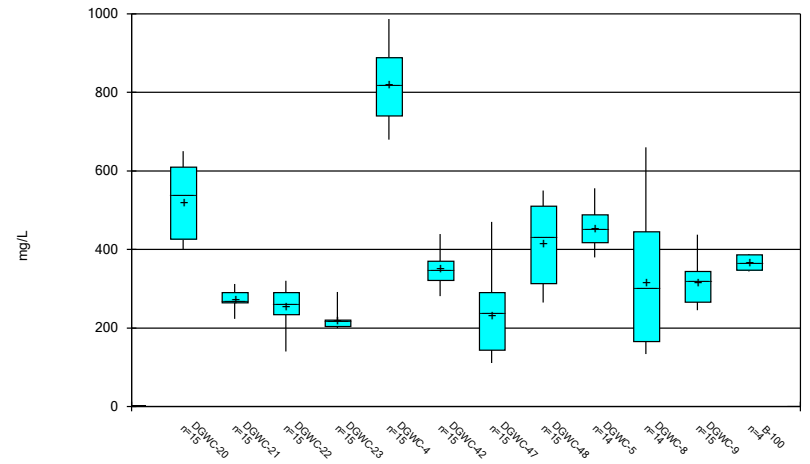
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



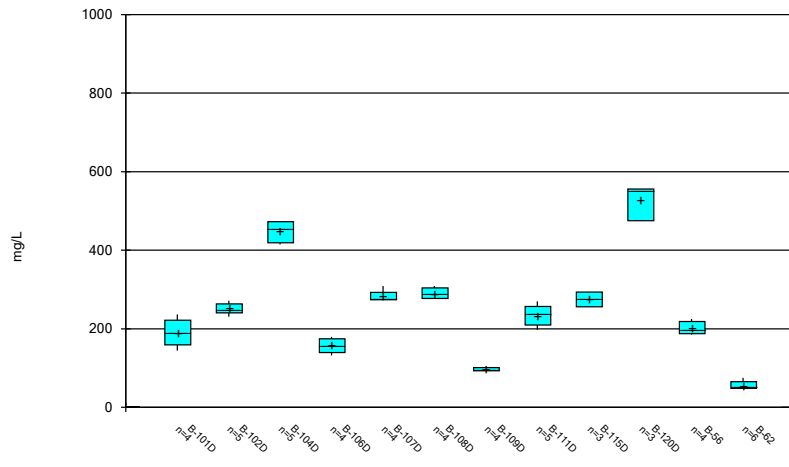
Constituent: Sulfate as SO4 Analysis Run 4/13/2022 4:23 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



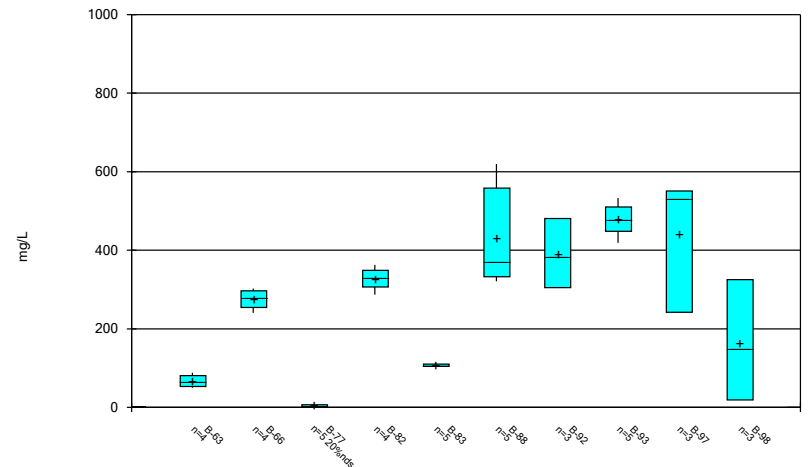
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Box & Whiskers Plot



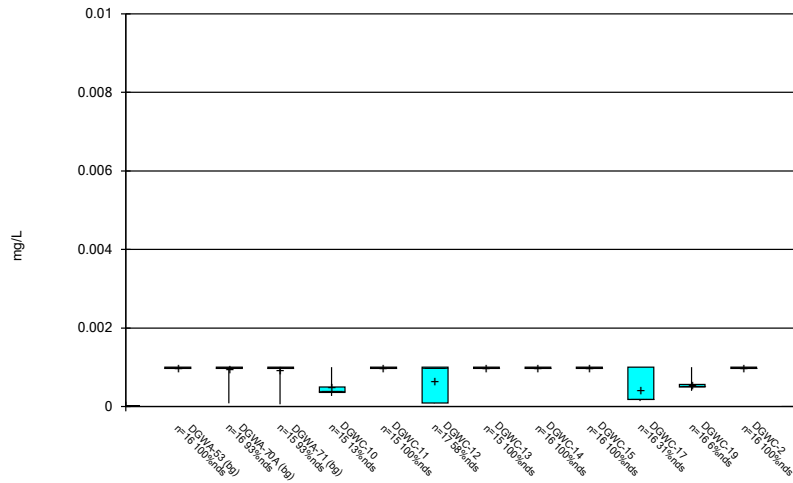
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 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



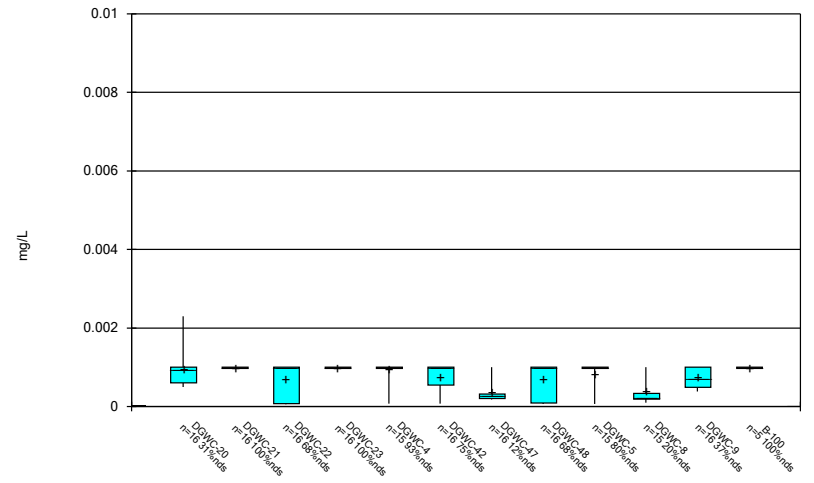
Constituent: Sulfate as SO4 Analysis Run 4/13/2022 4:23 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



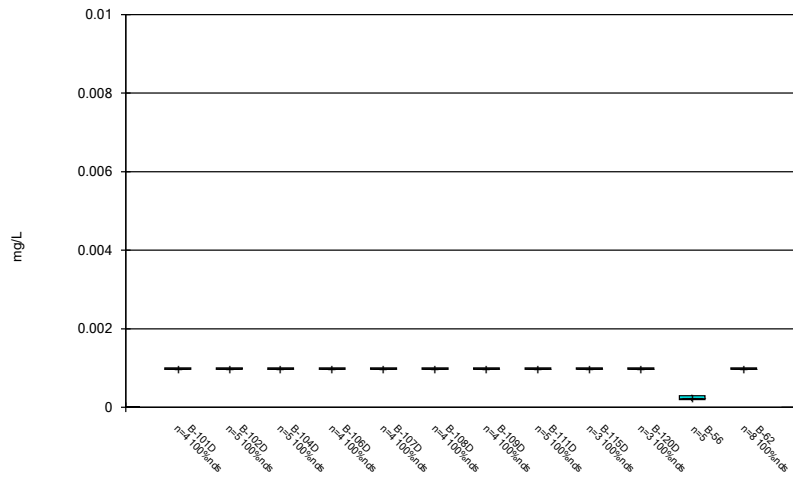
Constituent: Thallium Analysis Run 4/13/2022 4:23 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



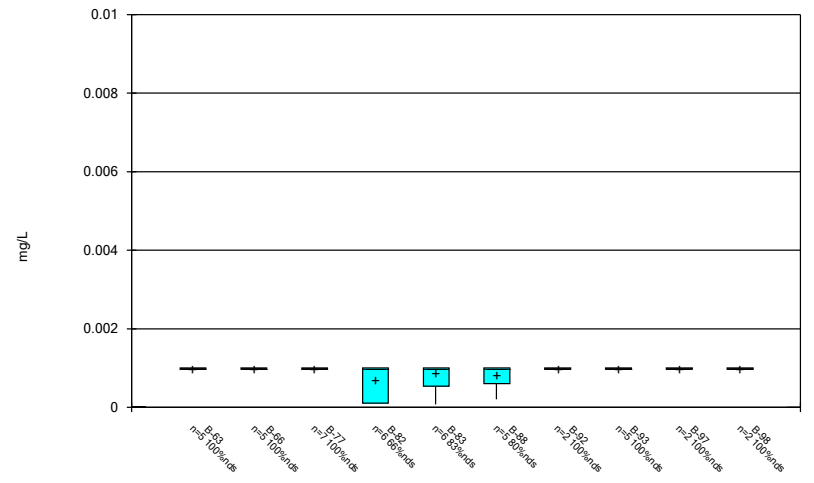
Constituent: Thallium Analysis Run 4/13/2022 4:23 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



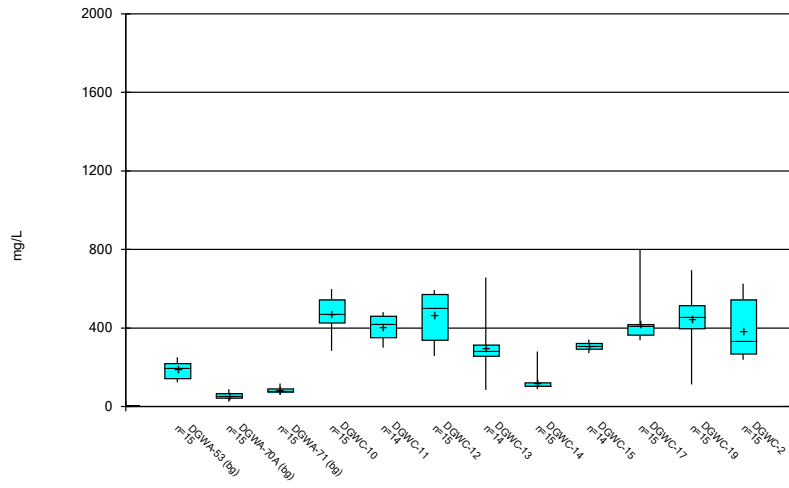
Constituent: Thallium Analysis Run 4/13/2022 4:23 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



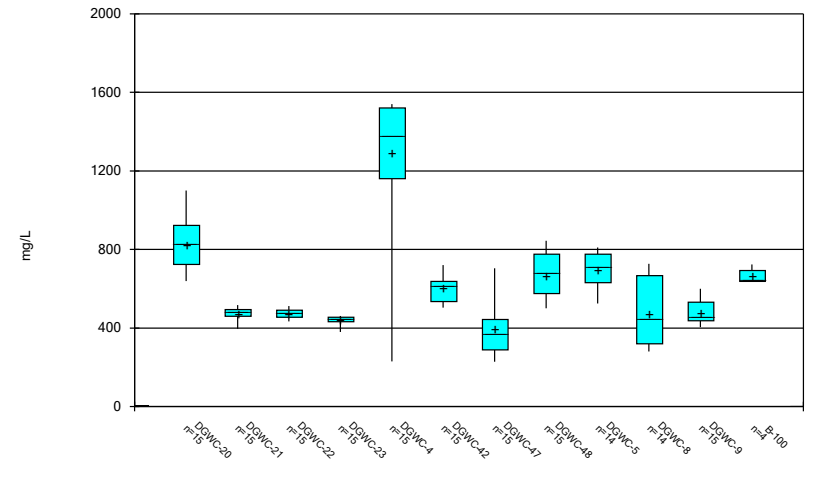
Constituent: Thallium Analysis Run 4/13/2022 4:23 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



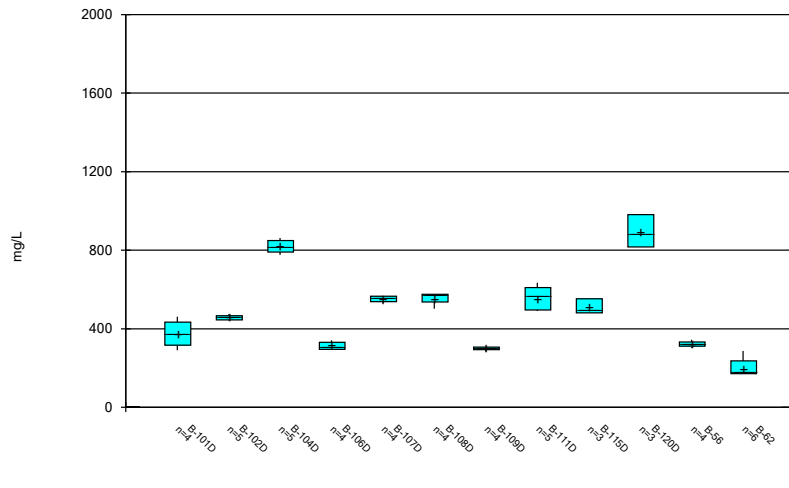
Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2022 4:23 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



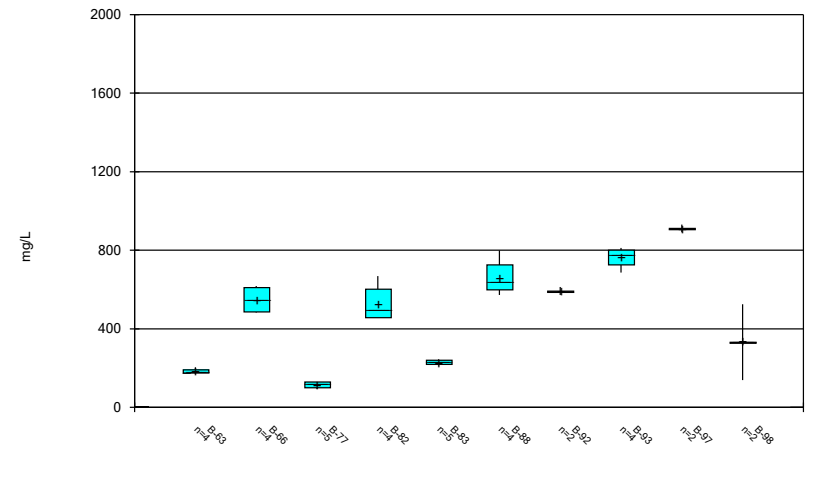
Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2022 4:23 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2022 4:23 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2022 4:23 PM View: AP 234  
 Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE C.

# Outlier Summary

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:26 PM

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	DGWC-5 Barium (mg/L)	DGWC-12 Chloride, Total (mg/L)	DGWA-70A Chromium (mg/L)	DGWA-70A Fluoride, total (mg/L)	DGWC-15 Lithium (mg/L)	DGWC-14 Sulfate as SO4 (mg/L)	DGWA-53 Total Dissolved Solids [TDS] (mg/L)	DGWC-15 Total Dissolved Solids [TDS] (mg/L)
8/31/2016	0.0266 (O)							
12/7/2016		20 (O)						
3/28/2017			1.2 (O)					
3/29/2017					81 (O)			
7/12/2017							490 (O)	
10/24/2017						671 (O)		
11/7/2018				<0.05 (O)				
10/15/2019		0.034 (O)						



FIGURE D.

# Interwell Prediction Limits - Significant Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 3/14/2022, 2:27 PM

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	1/26/2022	0.4	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	1/25/2022	1.7	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	1/25/2022	0.7	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	1/25/2022	0.69	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	1/24/2022	1.4	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	1/24/2022	0.9	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	1/25/2022	2.5	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	1/20/2022	0.5	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	1/21/2022	3.6	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	1/20/2022	6.9	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	1/20/2022	4.2	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	1/20/2022	4.5	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	1/24/2022	5.1	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	1/20/2022	0.83	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	1/21/2022	0.17	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	1/24/2022	0.61	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	1/24/2022	4.4	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	1/25/2022	0.98	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	1/26/2022	0.69	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	1/26/2022	76.8	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	1/25/2022	70.2	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-13	40.3	n/a	1/25/2022	43.2	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	1/25/2022	101	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-2	40.3	n/a	1/20/2022	44.6	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	1/21/2022	104	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	1/20/2022	83.7	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	1/20/2022	67.3	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	1/20/2022	82.7	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	1/24/2022	299	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	1/24/2022	61.2	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	1/24/2022	112	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	1/26/2022	48.4	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-10	5.9	n/a	1/26/2022	9	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-11	5.9	n/a	1/25/2022	14.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-12	5.9	n/a	1/25/2022	8.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-13	5.9	n/a	1/25/2022	14.3	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-15	5.9	n/a	1/24/2022	21.5	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-17	5.9	n/a	1/24/2022	19.2	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-19	5.9	n/a	1/25/2022	23.7	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-20	5.9	n/a	1/21/2022	27	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-21	5.9	n/a	1/20/2022	18.6	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-22	5.9	n/a	1/20/2022	18.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-23	5.9	n/a	1/20/2022	12	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-4	5.9	n/a	1/24/2022	12.5	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-42	5.9	n/a	1/20/2022	18.2	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-48	5.9	n/a	1/24/2022	11.3	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-5	5.9	n/a	1/24/2022	9.9	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-8	5.9	n/a	1/25/2022	9.3	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-9	5.9	n/a	1/26/2022	9.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-10	0.42	n/a	1/26/2022	1.8	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-20	0.42	n/a	1/21/2022	1.3	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-47	0.42	n/a	1/21/2022	0.64	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-48	0.42	n/a	1/24/2022	0.59	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-9	0.42	n/a	1/26/2022	1.2	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
pH, Field (SU)	DGWC-10	6.648	5.14	1/26/2022	4.9	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-13	6.648	5.14	1/25/2022	4.68	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-19	6.648	5.14	1/25/2022	4.79	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-20	6.648	5.14	1/21/2022	4.47	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-47	6.648	5.14	1/21/2022	3.72	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-48	6.648	5.14	1/24/2022	4.03	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-5	6.648	5.14	1/24/2022	4.79	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-9	6.648	5.14	1/26/2022	3.68	Yes	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2

# Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 3/14/2022, 2:27 PM

Constituent	Well	Upper Lim.	Lower LimDate	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate as SO4 (mg/L)	DGWC-10	32.59	n/a	1/26/2022 241	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-11	32.59	n/a	1/25/2022 250	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-12	32.59	n/a	1/25/2022 111	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-13	32.59	n/a	1/25/2022 116	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-14	32.59	n/a	1/25/2022 44.4	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-15	32.59	n/a	1/24/2022 127	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-17	32.59	n/a	1/24/2022 225	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-19	32.59	n/a	1/25/2022 288	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-2	32.59	n/a	1/20/2022 101	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-20	32.59	n/a	1/21/2022 406	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-21	32.59	n/a	1/20/2022 223	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-22	32.59	n/a	1/20/2022 221	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-23	32.59	n/a	1/20/2022 211	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-4	32.59	n/a	1/24/2022 816	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-42	32.59	n/a	1/20/2022 281	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-47	32.59	n/a	1/21/2022 135	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-48	32.59	n/a	1/24/2022 265	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-5	32.59	n/a	1/24/2022 434	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-8	32.59	n/a	1/25/2022 134	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	DGWC-9	32.59	n/a	1/26/2022 245	Yes	46	2.545	1.423	13.04	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	292	n/a	1/26/2022 425	Yes	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	292	n/a	1/25/2022 465	Yes	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	292	n/a	1/24/2022 294	Yes	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	292	n/a	1/24/2022 426	Yes	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	292	n/a	1/25/2022 694	Yes	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	292	n/a	1/21/2022 702	Yes	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	292	n/a	1/20/2022 451	Yes	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	292	n/a	1/20/2022 434	Yes	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	292	n/a	1/20/2022 453	Yes	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	292	n/a	1/24/2022 1520	Yes	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	292	n/a	1/20/2022 504	Yes	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	292	n/a	1/24/2022 500	Yes	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	292	n/a	1/24/2022 810	Yes	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	292	n/a	1/26/2022 409	Yes	45	4.565	0.9289	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 3/14/2022, 2:27 PM

Constituent	Well	Upper Lim.	Lower Lim	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	DGWC-10	0.13	n/a	1/26/2022	0.4	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-11	0.13	n/a	1/25/2022	1.7	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-12	0.13	n/a	1/25/2022	0.7	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-13	0.13	n/a	1/25/2022	0.69	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-14	0.13	n/a	1/25/2022	0.097	No	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-15	0.13	n/a	1/24/2022	1.4	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-17	0.13	n/a	1/24/2022	0.9	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-19	0.13	n/a	1/25/2022	2.5	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-2	0.13	n/a	1/20/2022	0.5	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-20	0.13	n/a	1/21/2022	3.6	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-21	0.13	n/a	1/20/2022	6.9	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-22	0.13	n/a	1/20/2022	4.2	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-23	0.13	n/a	1/20/2022	4.5	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-4	0.13	n/a	1/24/2022	5.1	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-42	0.13	n/a	1/20/2022	0.83	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-47	0.13	n/a	1/21/2022	0.17	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-48	0.13	n/a	1/24/2022	0.61	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-5	0.13	n/a	1/24/2022	4.4	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-8	0.13	n/a	1/25/2022	0.98	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Boron, total (mg/L)	DGWC-9	0.13	n/a	1/26/2022	0.69	Yes	44	n/a	n/a	25	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-10	40.3	n/a	1/26/2022	76.8	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-11	40.3	n/a	1/25/2022	70.2	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-12	40.3	n/a	1/25/2022	28.5	No	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-13	40.3	n/a	1/25/2022	43.2	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-14	40.3	n/a	1/25/2022	12.4	No	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-15	40.3	n/a	1/24/2022	33.2	No	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-17	40.3	n/a	1/24/2022	15.6	No	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-19	40.3	n/a	1/25/2022	101	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-2	40.3	n/a	1/20/2022	44.6	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-20	40.3	n/a	1/21/2022	104	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-21	40.3	n/a	1/20/2022	83.7	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-22	40.3	n/a	1/20/2022	67.3	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-23	40.3	n/a	1/20/2022	82.7	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-4	40.3	n/a	1/24/2022	299	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-42	40.3	n/a	1/20/2022	38.1	No	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-47	40.3	n/a	1/21/2022	31	No	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-48	40.3	n/a	1/24/2022	61.2	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-5	40.3	n/a	1/24/2022	112	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-8	40.3	n/a	1/25/2022	36.8	No	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	DGWC-9	40.3	n/a	1/26/2022	48.4	Yes	44	n/a	n/a	4.545	n/a	n/a	0.0009194	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-10	5.9	n/a	1/26/2022	9	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-11	5.9	n/a	1/25/2022	14.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-12	5.9	n/a	1/25/2022	8.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-13	5.9	n/a	1/25/2022	14.3	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-14	5.9	n/a	1/25/2022	3.7	No	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-15	5.9	n/a	1/24/2022	21.5	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-17	5.9	n/a	1/24/2022	19.2	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-19	5.9	n/a	1/25/2022	23.7	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-2	5.9	n/a	1/20/2022	2	No	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-20	5.9	n/a	1/21/2022	27	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-21	5.9	n/a	1/20/2022	18.6	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-22	5.9	n/a	1/20/2022	18.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-23	5.9	n/a	1/20/2022	12	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-4	5.9	n/a	1/24/2022	12.5	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-42	5.9	n/a	1/20/2022	18.2	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-47	5.9	n/a	1/21/2022	3.1	No	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-48	5.9	n/a	1/24/2022	11.3	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-5	5.9	n/a	1/24/2022	9.9	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-8	5.9	n/a	1/25/2022	9.3	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	DGWC-9	5.9	n/a	1/26/2022	9.1	Yes	46	n/a	n/a	0	n/a	n/a	0.000849	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	DGWC-10	0.42	n/a	1/26/2022	1.8	Yes	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-11	0.42	n/a	1/25/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2

# Interwell Prediction Limits - All Results

Plant McDonough   Client: Southern Company   Data: McDonough AP   Printed 3/14/2022, 2:27 PM

Constituent	Well	Upper Lim.	Lower Lim	Date	Obsv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	DGWC-12	0.42	n/a	1/25/2022	0.093J	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-13	0.42	n/a	1/25/2022	0.063J	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-14	0.42	n/a	1/25/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-15	0.42	n/a	1/24/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-17	0.42	n/a	1/24/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-19	0.42	n/a	1/25/2022	0.16	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-2	0.42	n/a	1/20/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>DGWC-20</b>	<b>0.42</b>	<b>n/a</b>	<b>1/21/2022</b>	<b>1.3</b>	<b>Yes</b>	<b>51</b>	<b>n/a</b>	<b>n/a</b>	<b>52.94</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0006883</b>	<b>NP Inter (NDs) 1 of 2</b>
Fluoride, total (mg/L)	DGWC-21	0.42	n/a	1/20/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-22	0.42	n/a	1/20/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-23	0.42	n/a	1/20/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-4	0.42	n/a	1/24/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-42	0.42	n/a	1/20/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>DGWC-47</b>	<b>0.42</b>	<b>n/a</b>	<b>1/21/2022</b>	<b>0.64</b>	<b>Yes</b>	<b>51</b>	<b>n/a</b>	<b>n/a</b>	<b>52.94</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0006883</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Fluoride, total (mg/L)</b>	<b>DGWC-48</b>	<b>0.42</b>	<b>n/a</b>	<b>1/24/2022</b>	<b>0.59</b>	<b>Yes</b>	<b>51</b>	<b>n/a</b>	<b>n/a</b>	<b>52.94</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0006883</b>	<b>NP Inter (NDs) 1 of 2</b>
Fluoride, total (mg/L)	DGWC-5	0.42	n/a	1/24/2022	0.19	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	DGWC-8	0.42	n/a	1/25/2022	0.1ND	No	51	n/a	n/a	52.94	n/a	n/a	0.0006883	NP Inter (NDs) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>DGWC-9</b>	<b>0.42</b>	<b>n/a</b>	<b>1/26/2022</b>	<b>1.2</b>	<b>Yes</b>	<b>51</b>	<b>n/a</b>	<b>n/a</b>	<b>52.94</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0006883</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-10</b>	<b>6.648</b>	<b>5.14</b>	<b>1/26/2022</b>	<b>4.9</b>	<b>Yes</b>	<b>53</b>	<b>5.894</b>	<b>0.3426</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
pH, Field (SU)	DGWC-11	6.648	5.14	1/25/2022	5.54	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-12	6.648	5.14	1/25/2022	5.96	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
<b>pH, Field (SU)</b>	<b>DGWC-13</b>	<b>6.648</b>	<b>5.14</b>	<b>1/25/2022</b>	<b>4.68</b>	<b>Yes</b>	<b>53</b>	<b>5.894</b>	<b>0.3426</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
pH, Field (SU)	DGWC-14	6.648	5.14	1/25/2022	5.69	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-15	6.648	5.14	1/24/2022	6.06	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-17	6.648	5.14	1/24/2022	5.15	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
<b>pH, Field (SU)</b>	<b>DGWC-19</b>	<b>6.648</b>	<b>5.14</b>	<b>1/25/2022</b>	<b>4.79</b>	<b>Yes</b>	<b>53</b>	<b>5.894</b>	<b>0.3426</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
pH, Field (SU)	DGWC-2	6.648	5.14	1/20/2022	5.93	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
<b>pH, Field (SU)</b>	<b>DGWC-20</b>	<b>6.648</b>	<b>5.14</b>	<b>1/21/2022</b>	<b>4.47</b>	<b>Yes</b>	<b>53</b>	<b>5.894</b>	<b>0.3426</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
pH, Field (SU)	DGWC-21	6.648	5.14	1/20/2022	5.73	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-22	6.648	5.14	1/20/2022	5.72	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-23	6.648	5.14	1/20/2022	5.95	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-4	6.648	5.14	1/24/2022	5.79	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
pH, Field (SU)	DGWC-42	6.648	5.14	1/20/2022	5.27	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
<b>pH, Field (SU)</b>	<b>DGWC-47</b>	<b>6.648</b>	<b>5.14</b>	<b>1/21/2022</b>	<b>3.72</b>	<b>Yes</b>	<b>53</b>	<b>5.894</b>	<b>0.3426</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-48</b>	<b>6.648</b>	<b>5.14</b>	<b>1/24/2022</b>	<b>4.03</b>	<b>Yes</b>	<b>53</b>	<b>5.894</b>	<b>0.3426</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
<b>pH, Field (SU)</b>	<b>DGWC-5</b>	<b>6.648</b>	<b>5.14</b>	<b>1/24/2022</b>	<b>4.79</b>	<b>Yes</b>	<b>53</b>	<b>5.894</b>	<b>0.3426</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
pH, Field (SU)	DGWC-8	6.648	5.14	1/25/2022	5.16	No	53	5.894	0.3426	0	None	No	0.0001881	Param Inter 1 of 2
<b>pH, Field (SU)</b>	<b>DGWC-9</b>	<b>6.648</b>	<b>5.14</b>	<b>1/26/2022</b>	<b>3.68</b>	<b>Yes</b>	<b>53</b>	<b>5.894</b>	<b>0.3426</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.0001881</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-10</b>	<b>32.59</b>	<b>n/a</b>	<b>1/26/2022</b>	<b>241</b>	<b>Yes</b>	<b>46</b>	<b>2.545</b>	<b>1.423</b>	<b>13.04</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-11</b>	<b>32.59</b>	<b>n/a</b>	<b>1/25/2022</b>	<b>250</b>	<b>Yes</b>	<b>46</b>	<b>2.545</b>	<b>1.423</b>	<b>13.04</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-12</b>	<b>32.59</b>	<b>n/a</b>	<b>1/25/2022</b>	<b>111</b>	<b>Yes</b>	<b>46</b>	<b>2.545</b>	<b>1.423</b>	<b>13.04</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-13</b>	<b>32.59</b>	<b>n/a</b>	<b>1/25/2022</b>	<b>116</b>	<b>Yes</b>	<b>46</b>	<b>2.545</b>	<b>1.423</b>	<b>13.04</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-14</b>	<b>32.59</b>	<b>n/a</b>	<b>1/25/2022</b>	<b>44.4</b>	<b>Yes</b>	<b>46</b>	<b>2.545</b>	<b>1.423</b>	<b>13.04</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-15</b>	<b>32.59</b>	<b>n/a</b>	<b>1/24/2022</b>	<b>127</b>	<b>Yes</b>	<b>46</b>	<b>2.545</b>	<b>1.423</b>	<b>13.04</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-17</b>	<b>32.59</b>	<b>n/a</b>	<b>1/24/2022</b>	<b>225</b>	<b>Yes</b>	<b>46</b>	<b>2.545</b>	<b>1.423</b>	<b>13.04</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-19</b>	<b>32.59</b>	<b>n/a</b>	<b>1/25/2022</b>	<b>288</b>	<b>Yes</b>	<b>46</b>	<b>2.545</b>	<b>1.423</b>	<b>13.04</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-2</b>	<b>32.59</b>	<b>n/a</b>	<b>1/20/2022</b>	<b>101</b>	<b>Yes</b>	<b>46</b>	<b>2.545</b>	<b>1.423</b>	<b>13.04</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-20</b>	<b>32.59</b>	<b>n/a</b>	<b>1/21/2022</b>	<b>406</b>	<b>Yes</b>	<b>46</b>	<b>2.545</b>	<b>1.423</b>	<b>13.04</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-21</b>	<b>32.59</b>	<b>n/a</b>	<b>1/20/2022</b>	<b>223</b>	<b>Yes</b>	<b>46</b>	<b>2.545</b>	<b>1.423</b>	<b>13.04</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-22</b>	<b>32.59</b>	<b>n/a</b>	<b>1/20/2022</b>	<b>221</b>	<b>Yes</b>	<b>46</b>	<b>2.545</b>	<b>1.423</b>	<b>13.04</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-23</b>	<b>32.59</b>	<b>n/a</b>	<b>1/20/2022</b>	<b>211</b>	<b>Yes</b>	<b>46</b>	<b>2.545</b>	<b>1.423</b>	<b>13.04</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-4</b>	<b>32.59</b>	<b>n/a</b>	<b>1/24/2022</b>	<b>816</b>	<b>Yes</b>	<b>46</b>	<b>2.545</b>	<b>1.423</b>	<b>13.04</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-42</b>	<b>32.59</b>	<b>n/a</b>	<b>1/20/2022</b>	<b>281</b>	<b>Yes</b>	<b>46</b>	<b>2.545</b>	<b>1.423</b>	<b>13.04</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-47</b>	<b>32.59</b>	<b>n/a</b>	<b>1/21/2022</b>	<b>135</b>	<b>Yes</b>	<b>46</b>	<b>2.545</b>	<b>1.423</b>	<b>13.04</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-48</b>	<b>32.59</b>	<b>n/a</b>	<b>1/24/2022</b>	<b>265</b>	<b>Yes</b>	<b>46</b>	<b>2.545</b>	<b>1.423</b>	<b>13.04</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-5</b>	<b>32.59</b>	<b>n/a</b>	<b>1/24/2022</b>	<b>434</b>	<b>Yes</b>	<b>46</b>	<b>2.545</b>	<b>1.423</b>	<b>13.04</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-8</b>	<b>32.59</b>	<b>n/a</b>	<b>1/25/2022</b>	<b>134</b>	<b>Yes</b>	<b>46</b>	<b>2.545</b>	<b>1.423</b>	<b>13.04</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-9</b>	<b>32.59</b>	<b>n/a</b>	<b>1/26/2022</b>	<b>245</b>	<b>Yes</b>	<b>46</b>	<b>2.545</b>	<b>1.423</b>	<b>13.04</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-10</b>	<b>292</b>	<b>n/a</b>	<b>1/26/2022</b>	<b>425</b>	<b>Yes</b>	<b>45</b>	<b>4.565</b>	<b>0.9289</b>	<b>0</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-11</b>	<b>292</b>	<b>n/a</b>	<b>1/25/2022</b>	<b>465</b>	<b>Yes</b>	<b>45</b>	<b>4.565</b>	<b>0.9289</b>	<b>0</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	292	n/a	1/25/2022	258	No	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-13	292	n/a	1/25/2022	256	No	45	4.565	0.9289	0	None	x^(1/3)	0.0003762	Param Inter 1 of 2

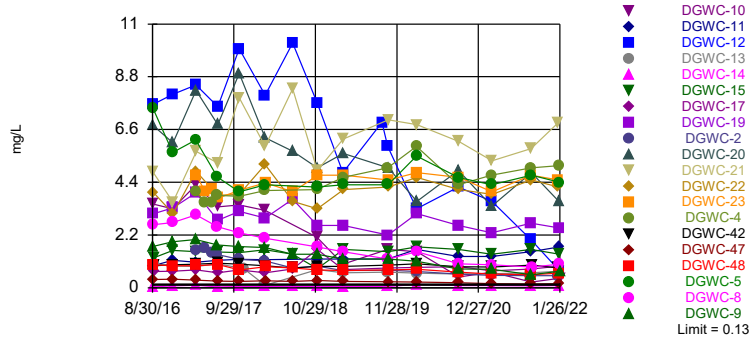
# Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 3/14/2022, 2:27 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N Bg	Mean	Std. Dev.	%NDs	ND Adj.	Transform Alpha	Method	
Total Dissolved Solids [TDS] (mg/L)	DGWC-14	292	n/a	1/25/2022	120	No	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-15</b>	<b>292</b>	<b>n/a</b>	<b>1/24/2022</b>	<b>294</b>	<b>Yes</b>	<b>45</b>	<b>4.565</b>	<b>0.9289</b>	<b>0</b>	<b>None</b>		<b>x^(1/3)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	292	n/a	1/24/2022	426	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-19</b>	<b>292</b>	<b>n/a</b>	<b>1/25/2022</b>	<b>694</b>	<b>Yes</b>	<b>45</b>	<b>4.565</b>	<b>0.9289</b>	<b>0</b>	<b>None</b>		<b>x^(1/3)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-2	292	n/a	1/20/2022	238	No	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-20</b>	<b>292</b>	<b>n/a</b>	<b>1/21/2022</b>	<b>702</b>	<b>Yes</b>	<b>45</b>	<b>4.565</b>	<b>0.9289</b>	<b>0</b>	<b>None</b>		<b>x^(1/3)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	292	n/a	1/20/2022	451	Yes	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-22</b>	<b>292</b>	<b>n/a</b>	<b>1/20/2022</b>	<b>434</b>	<b>Yes</b>	<b>45</b>	<b>4.565</b>	<b>0.9289</b>	<b>0</b>	<b>None</b>		<b>x^(1/3)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-23</b>	<b>292</b>	<b>n/a</b>	<b>1/20/2022</b>	<b>453</b>	<b>Yes</b>	<b>45</b>	<b>4.565</b>	<b>0.9289</b>	<b>0</b>	<b>None</b>		<b>x^(1/3)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-4</b>	<b>292</b>	<b>n/a</b>	<b>1/24/2022</b>	<b>1520</b>	<b>Yes</b>	<b>45</b>	<b>4.565</b>	<b>0.9289</b>	<b>0</b>	<b>None</b>		<b>x^(1/3)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-42</b>	<b>292</b>	<b>n/a</b>	<b>1/20/2022</b>	<b>504</b>	<b>Yes</b>	<b>45</b>	<b>4.565</b>	<b>0.9289</b>	<b>0</b>	<b>None</b>		<b>x^(1/3)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-47	292	n/a	1/21/2022	289	No	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-48</b>	<b>292</b>	<b>n/a</b>	<b>1/24/2022</b>	<b>500</b>	<b>Yes</b>	<b>45</b>	<b>4.565</b>	<b>0.9289</b>	<b>0</b>	<b>None</b>		<b>x^(1/3)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-5</b>	<b>292</b>	<b>n/a</b>	<b>1/24/2022</b>	<b>810</b>	<b>Yes</b>	<b>45</b>	<b>4.565</b>	<b>0.9289</b>	<b>0</b>	<b>None</b>		<b>x^(1/3)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	292	n/a	1/25/2022	281	No	45	4.565	0.9289	0	None		x^(1/3)	0.0003762	Param Inter 1 of 2
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-9</b>	<b>292</b>	<b>n/a</b>	<b>1/26/2022</b>	<b>409</b>	<b>Yes</b>	<b>45</b>	<b>4.565</b>	<b>0.9289</b>	<b>0</b>	<b>None</b>		<b>x^(1/3)</b>	<b>0.0003762</b>	<b>Param Inter 1 of 2</b>

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

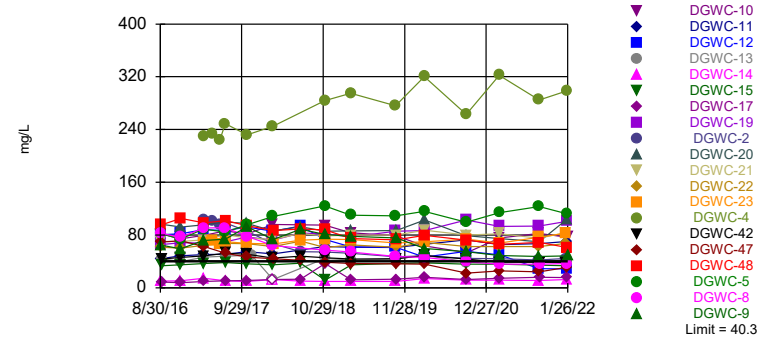


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. 25% NDs. Annual per-constituent alpha = 0.03613. Individual comparison alpha = 0.0009194 (1 of 2). Comparing 20 points to limit.

Constituent: Boron, total Analysis Run 3/14/2022 1:48 PM View: AP 234 Appendix III Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-11, DGWC-13, DGWC-19, DGWC-2, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-4...

Prediction Limit Interwell Non-parametric

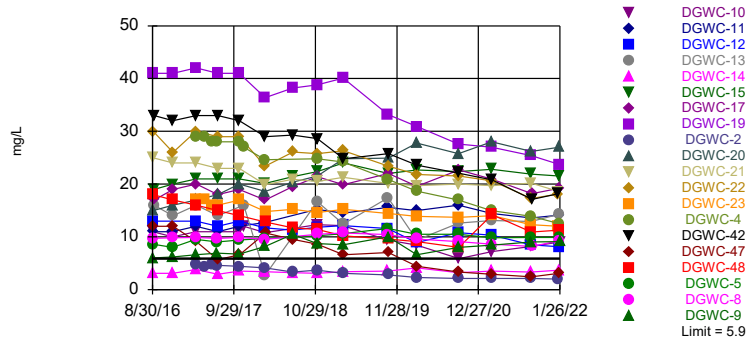


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. 4.545% NDs. Annual per-constituent alpha = 0.03613. Individual comparison alpha = 0.0009194 (1 of 2). Comparing 20 points to limit.

Constituent: Calcium, total Analysis Run 3/14/2022 1:48 PM View: AP 234 Appendix III Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22...

Prediction Limit Interwell Non-parametric

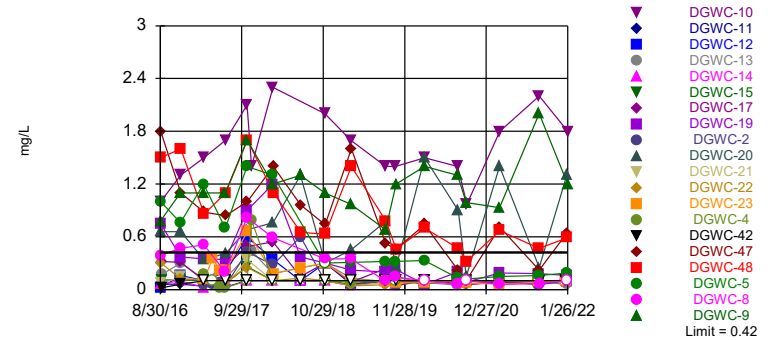


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 46 background values. Annual per-constituent alpha = 0.0334. Individual comparison alpha = 0.000849 (1 of 2). Comparing 20 points to limit.

Constituent: Chloride, Total Analysis Run 3/14/2022 1:48 PM View: AP 234 Appendix III Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-20, DGWC-47, DGWC-48, DGWC-9

Prediction Limit Interwell Non-parametric

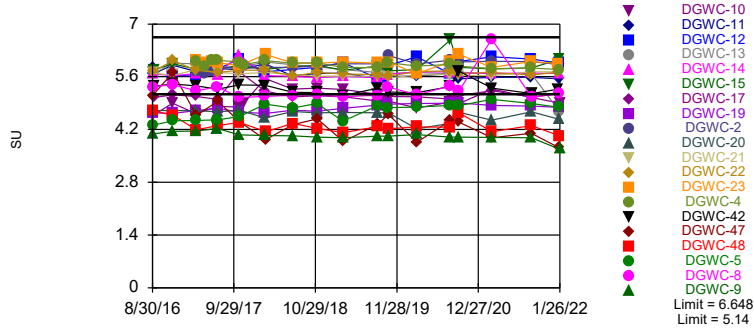


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 51 background values. 52.94% NDs. Annual per-constituent alpha = 0.02717. Individual comparison alpha = 0.0006883 (1 of 2). Comparing 20 points to limit.

Constituent: Fluoride, total Analysis Run 3/14/2022 1:48 PM View: AP 234 Appendix III Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limits: DGWC-10, DGWC-13, DGWC-19, DGWC-20, DGWC-47, DGWC-48, DGWC-5, DGWC-9

Prediction Limit  
Interwell Parametric

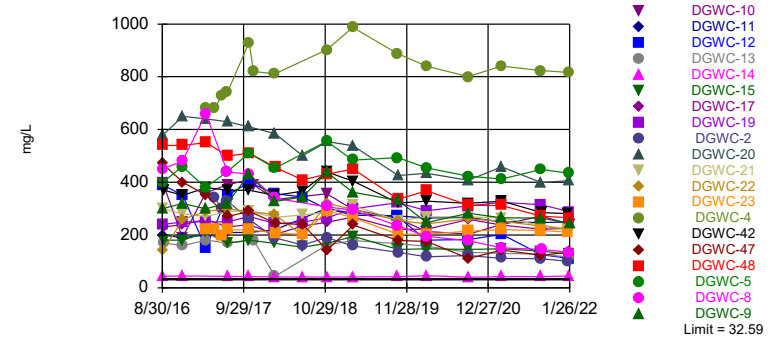


Background Data Summary: Mean=5.894, Std. Dev.=0.3426, n=53. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9401, critical = 0.938. Kappa = 2.201 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0001881. Comparing 20 points to limit.

Constituent: pH, Field Analysis Run 3/14/2022 1:49 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-14, DGWC-15, DGWC-17, DGWC-19, DGWC-2, DGWC-20...

Prediction Limit  
Interwell Parametric

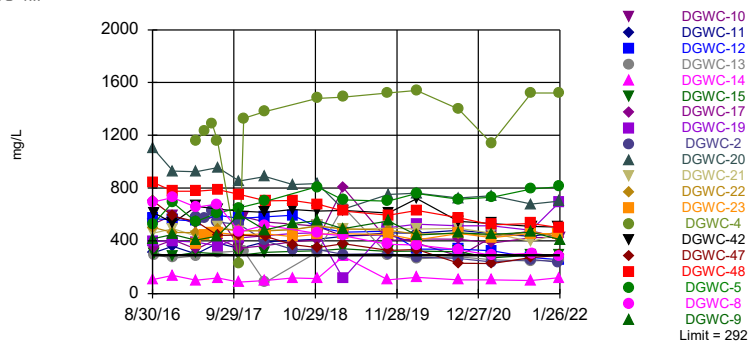


Background Data Summary (based on square root transformation): Mean=2.545, Std. Dev.=1.423, n=46, 13.04% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9306, critical = 0.927. Kappa = 2.224 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003762. Comparing 20 points to limit.

Constituent: Sulfate as SO4 Analysis Run 3/14/2022 1:49 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

Exceeds Limit: DGWC-10, DGWC-11, 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=4.565, Std. Dev.=0.9289, n=45. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9341, critical = 0.926. Kappa = 2.228 (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 3/14/2022 1:49 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP











# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	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	4.01	0.0067 (J)	0.0097 (J)		
3/29/2017					
3/30/2017				4.68	1.56
3/31/2017					
5/11/2017					1.65
5/12/2017	3.58		0.0082 (J)	4.03	
5/15/2017		0.0073 (J)			
6/15/2017	3.58	<0.04		4.11	1.44
6/16/2017			0.0085 (J)		
7/11/2017	3.85	<0.04	0.0077 (J)		1.39
7/12/2017				3.74	
7/13/2017					
8/8/2017		<0.04			
10/24/2017	3.82	0.0082 (J)	0.0083 (J)		1.18
10/25/2017					
10/26/2017				4.07	
11/15/2017					
2/27/2018	4.06	0.0062 (J)	0.0069 (J)		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	4.1	<0.04 (J)	<0.04 (J)		0.9
11/7/2018					
11/8/2018				4.7	
3/12/2019	4.6	0.0073 (J)	0.0068 (J)		0.72
3/13/2019					
3/14/2019				4.7	
9/17/2019					
10/15/2019	5	<0.04	0.0054 (J)		
10/16/2019					
10/17/2019					0.73
10/18/2019				4.5	
3/2/2020	5.9	0.0055 (J)	0.01 (J)		
3/3/2020					0.68
3/4/2020				4.8	
3/9/2020					
9/22/2020	4.3	<0.04	<0.04		
9/23/2020					0.57
9/24/2020				4.6	
3/1/2021	4.7	<0.04	0.0054 (J)		

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-4	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-23	DGWC-2
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		4.7	0.51
9/10/2021	5				
9/13/2021					
1/18/2022		0.024 (J)	0.015 (J)		
1/20/2022				4.5	0.5
1/21/2022					
1/24/2022	5.1				
1/25/2022					
1/26/2022					
1/28/2022					

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-11	DGWC-14	DGWC-5	DGWC-10	DGWC-12	DGWC-19	DGWC-48
8/30/2016	82.7	64.9							
8/31/2016			44.2	9.95	82.6	81.7			
9/1/2016							80.6	65.6	95.1
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	76.8	59.3	48.3	10.4	73.9	74.2			
12/7/2016							82.1	68.3	
12/8/2016									105
3/28/2017		71.6			89.1				
3/29/2017	90.5		50.5	14.4		79.5	88.3	68	
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			50.8	10.5		86.3	87	70	
7/13/2017									102
8/8/2017									
10/24/2017	78.1	92.5	55			81.5			
10/25/2017				9.67	95.6		92.1	77	
10/26/2017									94
11/15/2017									
2/27/2018	64.2	73.1	51.4	<25	108	96.2	85.6		
2/28/2018								72	
3/1/2018									
3/2/2018									86.6
3/8/2018									
7/11/2018		88.5		9.9			93.6	82.7	
7/12/2018									89.1
11/6/2018	57	81.1	62.6		124	94.8			
11/7/2018				9.7			73.3	81.7	88
11/8/2018									
3/12/2019	54.3	78.1	61.4		110	83.5	62.1		
3/13/2019				9.7				76.9	
3/14/2019									74.6
10/15/2019			61.2			79.1	61.4		
10/16/2019	47.3			9.4	109			85.7	
10/17/2019		75.6							
10/18/2019									72.7
3/2/2020			65.8		116		46.5		
3/3/2020	46	59.5		14		63.6		86.8	
3/4/2020									79.7
3/9/2020									
9/22/2020		54.7	72.7	11.6	99.2		55.4	103	
9/23/2020	39.3								72.2
9/24/2020						53.1			
3/1/2021									
3/2/2021	35.6	48.8	65.3	11.4	114			93.2	





# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-20	DGWC-22	DGWC-21	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWA-53 (bg)
8/30/2016									
8/31/2016									
9/1/2016	69.3								
9/2/2016		96.3	61.6	70.2					
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		60.1	70.1			45.8	7.92	
3/28/2017									30.8
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									35.8
5/12/2017									
5/15/2017									
6/15/2017									36
6/16/2017									
7/11/2017									
7/12/2017		100		80.4	38.4	47.8		10.4	40.3
7/13/2017	52.5		67.2				52.3		
8/8/2017									
10/24/2017									30.3
10/25/2017		97.3	66.8	75.6	36.2		50.9	10.9	
10/26/2017	46.7								
11/15/2017						49.3			
2/27/2018									
2/28/2018		86.3	62.3	73.2	35	<25	45.1	<25	
3/1/2018	44.2								
3/2/2018									
3/8/2018									39.8
7/11/2018		92.4		82.3	37.5		47.8	13 (J)	
7/12/2018	41.6		71						34.7
11/6/2018									
11/7/2018	38.6	85.9	60.9	78.5	11.4	44.8	45.5	37	28.6
11/8/2018									
3/12/2019									
3/13/2019		86.4		79.9		42.1		11.9 (J)	26.7
3/14/2019	36.6		64.8		34.7		43.5		
10/15/2019									
10/16/2019						43.8			17.7
10/17/2019	36.2	86.9		79.8	37		44.1		
10/18/2019			61.7					12.9	
3/2/2020									
3/3/2020			68.7	87.4	37.8	49.3			
3/4/2020	36	103					48.8	15.8	
3/9/2020									23.7
9/22/2020		79.2					43.8		15.5
9/23/2020	22.3				35.6	39			
9/24/2020			62.6	80				12.7	
3/1/2021									
3/2/2021		74.7			36	40.5			



# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	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	229	5.14	8.31		
3/29/2017					
3/30/2017				68.1	103
3/31/2017					
5/11/2017					102
5/12/2017	233		8.04	71.1	
5/15/2017		6.5			
6/15/2017	224	5.38		65.9	96.2
6/16/2017			7.66		
7/11/2017	249	5.96	7.71		98.4
7/12/2017				70	
7/13/2017					
8/8/2017		5.2			
10/24/2017	232	4.93	6.86		86
10/25/2017					
10/26/2017				67.2	
11/15/2017					
2/27/2018	245	<25	<25		66.7
2/28/2018					
3/1/2018				66.5	
3/2/2018					
3/8/2018					
7/11/2018					55
7/12/2018				72	
11/6/2018	284	5.5	5.7		54.5
11/7/2018					
11/8/2018				73.5	
3/12/2019	295	5.1	5.5		52.2
3/13/2019					
3/14/2019				73.2	
10/15/2019	276	5.1	5.1		
10/16/2019					
10/17/2019					47.2
10/18/2019				67.7	
3/2/2020	320	5.3	5.8		
3/3/2020					48.4
3/4/2020				69.8	
3/9/2020					
9/22/2020	263	5	5.4		
9/23/2020					44.4
9/24/2020				73.7	
3/1/2021	322	4.1	5.9		
3/2/2021					44

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-4	DGWA-70A (bg)	DGWA-71 (bg)	DGWC-23	DGWC-2
3/3/2021				68.1	
3/4/2021					
3/12/2021					
9/8/2021			6.1		
9/9/2021		5.3		76.4	42
9/10/2021	285				
9/13/2021					
1/18/2022		6.1	6.6		
1/20/2022				82.7	44.6
1/21/2022					
1/24/2022	299				
1/25/2022					
1/26/2022					
1/28/2022					

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-14	DGWC-10	DGWC-11	DGWC-5	DGWC-47	DGWC-12	DGWC-19
8/30/2016	9.7	6							
8/31/2016			3.1	11	11	8.6			
9/1/2016							12	13	41
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	9.8	6.2	3.1	10	11	8			
12/7/2016								20 (O)	41
12/8/2016							12		
3/28/2017		6.6				9.5			
3/29/2017	9.9		3.8	11	12			13	42
3/30/2017									
3/31/2017							9.1		
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	9.7	6.9				9			
7/12/2017			2.9	11	11			12	41
7/13/2017							5.7		
8/8/2017									
10/24/2017	9.9	6.7		11	12				
10/25/2017			3.5			9.4		13	41
10/26/2017							6.6		
11/15/2017				12					
2/27/2018	9.5	8.2	3.4	10.8	12.7	9.7		11.7	
2/28/2018									36.4
3/1/2018							10.7		
3/2/2018									
3/8/2018									
7/11/2018		10.5	3.2					11.3	38.2
7/12/2018							9.5		
11/6/2018	10.5	8.7		12.3	15.2	10.2			
11/7/2018			3.1				8.6	11.8	38.8
11/8/2018									
3/12/2019	10.7	8.5		12.1	14.5	10.6		12.1	
3/13/2019			3.4						40.1
3/14/2019							6.6		
10/15/2019				9.4	15.6			11.6	
10/16/2019	10.4		3.5			11.6			33.2
10/17/2019		10					7		
10/18/2019									
3/2/2020					15	10.5		8.9	
3/3/2020	9.6	6.6	4.1	8.4					30.9
3/4/2020							4.4		
3/9/2020									
9/22/2020		8	3.2		16	10.5		10.8	27.6
9/23/2020	9.1						3.3		
9/24/2020				5.9					
3/1/2021									
3/2/2021	8.6	8.4	3.5		14.4	9.8			27



# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-22	DGWC-20	DGWC-21	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWA-53 (bg)
8/30/2016									
8/31/2016									
9/1/2016	18								
9/2/2016		30	15	25					
9/6/2016					16	19			
9/7/2016							17	33	
12/6/2016									
12/7/2016			16		14	20			
12/8/2016	17	26		24			19	32	
3/28/2017									3.7
3/29/2017		30	17						
3/30/2017	16			24	16	21	20		
3/31/2017								33	
5/11/2017									2.3
5/12/2017									
5/15/2017									
6/15/2017									2.6
6/16/2017									
7/11/2017									
7/12/2017			18	23	14	21	18		2.3
7/13/2017	15	29						33	
8/8/2017									
10/24/2017									2.7
10/25/2017		29	20	23		21	19	32	
10/26/2017	14								
11/15/2017					16				2.2
2/27/2018									
2/28/2018		23.4	18.6	19.9	2.7	20.1	17	29	
3/1/2018									
3/2/2018	12.8								
3/8/2018									2.4
7/11/2018			20.4	20.9		21.4	19.5	29.3	
7/12/2018	11.7	26.1							2.2
11/6/2018									
11/7/2018	11.4	25.8	21.5	20.5	16.7	22.4	21.4	28.6	2.3
11/8/2018									
3/12/2019									
3/13/2019			24.8	21.3	12.4		19.9		3.6
3/14/2019	10.2	26.3				24		24.8	
10/15/2019									
10/16/2019					17.4				2
10/17/2019			24.9	20.1		22		25.8	
10/18/2019	9.6	23.4					22		
3/2/2020									
3/3/2020		21.8		19.7	9.4	22.7			
3/4/2020	9.1		27.8				19.6	23.6	
3/9/2020									1.8
9/22/2020			25.8					22.1	1.6
9/23/2020	8				12.6	22.4			
9/24/2020		21.5		20			22.7		
3/1/2021									
3/2/2021			28		13.1	22.8			





# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-4	DGWC-23	DGWC-2
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	3.6	3.8	29		
3/29/2017					
3/30/2017				17	4.8
3/31/2017					
5/11/2017					4.4
5/12/2017	3.8		29	17	
5/15/2017		2.2			
6/15/2017		2	28	16	4.8
6/16/2017	3.4				
7/11/2017	3.1	2.1	28		4.6
7/12/2017				16	
7/13/2017					
8/8/2017		2.2			
10/24/2017	3.2	2.4	28		4.4
10/25/2017					
10/26/2017				17	
11/15/2017	3.1		27		
2/27/2018	3.2	2.5	24.6		4.1
2/28/2018					
3/1/2018				14.8	
3/2/2018					
3/8/2018					
7/11/2018					3.3
7/12/2018				15.2	
11/6/2018	2.6	2.3	24.8		3.7
11/7/2018					
11/8/2018				14.6	
3/12/2019	3.3	2.5	24.2		3.1
3/13/2019					
3/14/2019				15.2	
10/15/2019	3.3	2.2	20.9		
10/16/2019					
10/17/2019					2.8
10/18/2019				14.4	
3/2/2020	3	1.9	18.7		
3/3/2020					2.3
3/4/2020				13.9	
3/9/2020					
9/22/2020	5.2	1.9	17		
9/23/2020					2.1
9/24/2020				13.7	
3/1/2021	3.9	1.9	15		
3/2/2021					2.1

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-4	DGWC-23	DGWC-2
3/3/2021				14	
3/4/2021					
3/12/2021					
9/8/2021	5.9				
9/9/2021		1.9		12.3	2.1
9/10/2021			13.9		
9/13/2021					
1/18/2022	5.9	1.9			
1/20/2022				12	2
1/21/2022					
1/24/2022			12.5		
1/25/2022					
1/26/2022					
1/28/2022					

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	DGWC-8	DGWC-14	DGWC-11	DGWC-10	DGWC-5	DGWC-12	DGWC-19	DGWC-47
8/30/2016	0.78	0.39							
8/31/2016			0.06 (J)	0.06 (J)	1	1			
9/1/2016							0.02 (J)	0.75	1.8
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	1.1	0.47	0.1 (J)	0.06 (J)	1.3	0.76			
12/7/2016							0.16 (J)	0.37	
12/8/2016									1.1
3/28/2017	1.1					1.2			
3/29/2017		0.51	0.02 (J)	0.04 (J)	1.5		0.1 (J)	0.35	
3/30/2017									
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	0.03 (J)	1.7		0.2 (J)	0.34	
7/13/2017									0.84
8/8/2017									
10/24/2017	1.7	0.82		<0.1	2.1				
10/25/2017			<0.1			1.4	0.6	0.9	
10/26/2017									1
11/15/2017					1.4				
2/27/2018	1.2	0.59	<0.1	<0.1	2.3	1.3	0.34		
2/28/2018								1.2	
3/1/2018									1.4
3/2/2018									
3/8/2018									
7/11/2018	1.3		<0.1				<0.1	0.37	
7/12/2018									0.96
11/6/2018	1.1	0.35		<0.1	2	<0.3 (J)			
11/7/2018			<0.1				<0.3 (J)	<0.3 (J)	0.74
11/8/2018									
3/12/2019	0.97	0.35		0.052 (J)	1.7	0.31	0.065 (J)		
3/13/2019			0.042 (J)					0.22 (J)	
3/14/2019									1.6
8/27/2019	0.68		<0.1	<0.1	1.4	0.32	<0.1		
8/28/2019		0.098 (J)						0.2	
8/29/2019									0.52
10/15/2019				<0.1	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									
3/2/2020				0.064 (J)		0.33	0.071 (J)		
3/3/2020	1.4	<0.1	<0.1		1.5			0.056 (J)	
3/4/2020									0.74
3/9/2020									
8/11/2020	1.3		<0.1	<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 3/14/2022 2:27 PM View: AP 234 Appendix III  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-21	DGWC-22	DGWC-20	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	1.5								
9/2/2016		0.07 (J)	0.3	0.66					
9/6/2016					0.17 (J)	0.11 (J)			
9/7/2016							0.32	0.02 (J)	
12/6/2016									
12/7/2016				0.66	0.3	0.11 (J)			
12/8/2016	1.6	0.14 (J)	0.12 (J)				0.31	0.06 (J)	
3/28/2017									0.17 (J)
3/29/2017			0.11 (J)	0.34					
3/30/2017	0.86	<0.1			0.12 (J)	<0.1	0.1 (J)		
3/31/2017								<0.1	
5/11/2017									
5/12/2017									<0.1
5/15/2017									
6/15/2017									0.02 (J)
6/16/2017									
7/11/2017									0.02 (J)
7/12/2017		0.04 (J)		0.41	0.13 (J)	0.07 (J)	0.27 (J)		
7/13/2017	1.1		0.09 (J)					<0.1	
8/8/2017									
10/24/2017									<0.1
10/25/2017		0.34	0.25 (J)	0.68		0.26 (J)	0.49	<0.1	
10/26/2017	1.7								
11/15/2017					0.44				0.79
2/27/2018									<0.1
2/28/2018		<0.1	<0.1	0.76	0.18	<0.1	0.54	<0.1	
3/1/2018									
3/2/2018	1.1								
3/8/2018									
7/11/2018		<0.1		1.3		<0.1	0.15 (J)	<0.1	
7/12/2018	0.65		0.13 (J)						
11/6/2018									<0.1
11/7/2018	0.63	<0.1	<0.1	<0.3 (J)	<0.3 (J)	<0.1	<0.3 (J)	<0.1	
11/8/2018									
3/12/2019									0.082 (J)
3/13/2019		0.043 (J)		0.45	0.13 (J)		0.084 (J)		
3/14/2019	1.4		0.042 (J)			0.057 (J)		<0.1	
8/27/2019							0.24 (J)		<0.1
8/28/2019					0.091 (J)	<0.1		<0.1	
8/29/2019	0.78	0.079 (J)	0.054 (J)	0.78					
10/15/2019									<0.1
10/16/2019					0.14 (J)				
10/17/2019		<0.1		0.26 (J)		0.079 (J)		<0.1	
10/18/2019	0.46		<0.1				0.086 (J)		
3/2/2020									<0.1
3/3/2020		<0.1	<0.1		0.078 (J)	<0.1			
3/4/2020	0.7			1.5			<0.1	<0.1	
3/9/2020									
8/11/2020									
8/12/2020					0.051 (J)				<0.1



# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-53 (bg)	DGWC-23	DGWC-2	DGWA-70A (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	0.06 (J)	0.12 (J)			1.2 (O)
3/29/2017					
3/30/2017			0.12 (J)	0.06 (J)	
3/31/2017					
5/11/2017		0.07 (J)		0.06 (J)	
5/12/2017	<0.1		0.36		
5/15/2017					0.005 (J)
6/15/2017		0.19 (J)	0.21 (J)	0.07 (J)	0.02 (J)
6/16/2017	0.008 (J)				
7/11/2017	0.007 (J)			0.04 (J)	0.06 (J)
7/12/2017		0.1 (J)	0.22 (J)		
7/13/2017					
8/8/2017					0.04 (J)
10/24/2017	<0.1	0.06 (J)		0.43	<0.1
10/25/2017					
10/26/2017			0.66		
11/15/2017	<0.1	0.05 (J)			
2/27/2018	<0.1			0.28	<0.1
2/28/2018					
3/1/2018			0.18		
3/2/2018					
3/8/2018		<0.1			
7/11/2018				0.6	
7/12/2018		0.071 (J)	0.25 (J)		
11/6/2018	<0.1			<0.1	<0.1
11/7/2018		<0.1			
11/8/2018			<0.3 (J)		
3/12/2019	<0.1			0.052 (J)	0.039 (J)
3/13/2019		0.13 (J)			
3/14/2019			0.092 (J)		
8/27/2019	<0.1			<0.1	<0.1
8/28/2019		0.42			
8/29/2019			0.095 (J)		
10/15/2019	<0.1				<0.1
10/16/2019		0.11 (J)			
10/17/2019				0.042 (J)	
10/18/2019			0.079 (J)		
3/2/2020	<0.1				<0.1
3/3/2020				<0.1	
3/4/2020			0.075 (J)		
3/9/2020		0.1 (J)			
8/11/2020	<0.1			<0.1	<0.1
8/12/2020					

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-53 (bg)	DGWC-23	DGWC-2	DGWA-70A (bg)
8/13/2020		0.062 (J)	0.1		
8/14/2020					
9/22/2020	<0.1	0.099 (J)			<0.1
9/23/2020				<0.1	
9/24/2020			0.075 (J)		
3/1/2021	<0.1				<0.1
3/2/2021				<0.1	
3/3/2021			0.063 (J)		
3/4/2021					
3/12/2021		0.076 (J)			
9/8/2021	<0.1				
9/9/2021		0.099 (J)	0.084 (J)	0.053 (J)	<0.1
9/10/2021					
9/13/2021					
1/18/2022	<0.1				<0.1
1/20/2022			<0.1	<0.1	
1/21/2022					
1/24/2022					
1/25/2022					
1/26/2022					
1/28/2022		0.08 (J)			











# Prediction Limit

Constituent: pH, Field (SU) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-53 (bg)	DGWC-2	DGWC-23	DGWA-70A (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	5.94	6.29			
3/29/2017					
3/30/2017			5.75	6.03	
3/31/2017					
5/11/2017		6.6	5.67		
5/12/2017	5.46			5.97	
5/15/2017					5.72
6/15/2017		6.41	5.75	6	5.74
6/16/2017	5.81				
7/11/2017	5.74		5.87		5.62
7/12/2017		5.91		5.97	
7/13/2017					
8/8/2017					5.6
10/24/2017	5.86	5.51	5.82		5.71
10/25/2017					
10/26/2017				5.9	
11/15/2017	5.77	6.5			
2/27/2018	5.66		5.85		5.5
2/28/2018					
3/1/2018				6.19	
3/2/2018					
3/8/2018		6.18			
7/10/2018	5.63				5.44
7/11/2018			5.85		
7/12/2018		6.33		5.97	
11/6/2018	5.79		5.88		5.71
11/7/2018		6.22			
11/8/2018				5.96	
3/12/2019	5.74		5.94		5.52
3/13/2019		6			
3/14/2019				5.99	
8/27/2019	5.87		5.94		5.53
8/28/2019		6.04			
8/29/2019				5.96	
9/17/2019					
10/15/2019	5.88				5.61
10/16/2019		6.69			
10/17/2019			6.16		
10/18/2019				5.99	
3/2/2020	5.77				5.54
3/3/2020			5.94		
3/4/2020				5.68	
3/9/2020		6.41			

# Prediction Limit

Constituent: pH, Field (SU) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWA-71 (bg)	DGWA-53 (bg)	DGWC-2	DGWC-23	DGWA-70A (bg)
8/11/2020	5.96		6.04		5.86
8/12/2020					
8/13/2020		6.17		6	
8/14/2020					
9/22/2020	6.06	6.43			6.01
9/23/2020			5.99		
9/24/2020				6.19	
3/1/2021	5.8				5.43
3/2/2021			6.01		
3/3/2021				5.85	
3/4/2021					
3/12/2021		6.38			
9/8/2021	5.76				
9/9/2021		6.41	6	6	5.5
9/10/2021					
9/13/2021					
1/18/2022	5.51				5.5
1/20/2022			5.93	5.95	
1/21/2022					
1/24/2022					
1/25/2022					
1/26/2022					
1/28/2022		6.35			

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-14	DGWC-11	DGWC-5	DGWC-10	DGWC-47	DGWC-48	DGWC-19
8/30/2016	450	300							
8/31/2016			44	200	400	400			
9/1/2016							470	540	240
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	480	320	45	190	460	190			
12/7/2016									250
12/8/2016							400	540	
3/28/2017		300			380				
3/29/2017	660		81 (O)	200		360			250
3/30/2017								550	
3/31/2017							350		
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	440	320			440				
7/12/2017			44	210		390			250
7/13/2017							270	500	
8/8/2017									
10/24/2017	430	430		210		410			
10/25/2017			42		510				270
10/26/2017							290	510	
11/15/2017						390			
2/27/2018	340	327	41	220	453	335			
2/28/2018									244
3/1/2018							245		
3/2/2018								456	
3/8/2018									
7/11/2018		344	40.6						249
7/12/2018							240	409	
11/6/2018	307	438		302	556	356			
11/7/2018			41.3				143	432	266
11/8/2018									
3/12/2019	295	362		275	484	297			
3/13/2019			41.2						299
3/14/2019							238	450	
10/15/2019				273		263			
10/16/2019	235		42.1		493				323
10/17/2019		331					179		
10/18/2019								336	
3/2/2020				264	455				
3/3/2020	195	247	45.5			213			292
3/4/2020							176	368	
3/9/2020									
9/22/2020		282	40.2	267	423				310
9/23/2020	178						111	313	
9/24/2020						204			
3/1/2021									
3/2/2021	152	266	42.6	250	412				324





# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-22	DGWC-21	DGWC-20	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWA-53 (bg)
8/30/2016									
8/31/2016									
9/1/2016	390								
9/2/2016		140	300	580					
9/6/2016					170	180			
9/7/2016							230	370	
12/6/2016									
12/7/2016	350			650	160	180			
12/8/2016		260	280				240	350	
3/28/2017									49
3/29/2017	150	290		640					
3/30/2017			270		180	210	260		
3/31/2017								380	
5/11/2017									21
5/12/2017									
5/15/2017									
6/15/2017									16
6/16/2017									
7/11/2017									
7/12/2017	350		290	630	170	170	230		10
7/13/2017		300						370	
8/8/2017									
10/24/2017									15
10/25/2017	400	290	290	610		180	240	370	
10/26/2017									
11/15/2017					180				3.8
2/27/2018	356								
2/28/2018		278	267	584	43.5	168	203	350	
3/1/2018									
3/2/2018									
3/8/2018									9.7
7/11/2018	344		277	501		154	234	366	
7/12/2018		197							8
11/6/2018									
11/7/2018	298	320	286	554	162	168	248	439	12.8
11/8/2018									
3/12/2019	284								
3/13/2019			312	539	179		268		23.7
3/14/2019		297				195		404	
10/15/2019	270								
10/16/2019					167				15.1
10/17/2019			255	426		146		321	
10/18/2019		254					222		
3/2/2020	181								
3/3/2020		242	269		157	148			
3/4/2020				434			222	329	
3/9/2020									9.5
9/22/2020	183			408				320	13.5
9/23/2020					134	146			
9/24/2020		262	269				259		
3/1/2021									
3/2/2021				458	131	148			



# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-23	DGWC-2
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	680	17	2.7		
3/29/2017					
3/30/2017				220	360
3/31/2017					
5/11/2017					340
5/12/2017	680	17		220	
5/15/2017			1		
6/15/2017	730		0.86 (J)	200	300
6/16/2017		11			
7/11/2017	740	11	1.4		330
7/12/2017				220	
7/13/2017					
8/8/2017			1.5		
10/24/2017	930	9.6	1.4		260
10/25/2017					
10/26/2017				220	
11/15/2017	820	7.8			
2/27/2018	811	7.4	0.54 (J)		189
2/28/2018					
3/1/2018				209	
3/2/2018					
3/8/2018					
7/11/2018					162
7/12/2018				202	
11/6/2018	902	7.3	<1 (J)		190
11/7/2018					
11/8/2018				292	
3/12/2019	987	7	0.35 (J)		159
3/13/2019					
3/14/2019				266	
10/15/2019	888	7.4	0.16 (J)		
10/16/2019					
10/17/2019					134
10/18/2019				203	
3/2/2020	840	8.5	<1		
3/3/2020					118
3/4/2020				204	
3/9/2020					
9/22/2020	800	6.5	<1		
9/23/2020					122
9/24/2020				215	
3/1/2021	840	5.2	<1		
3/2/2021					112

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-4	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-23	DGWC-2
3/3/2021				221	
3/4/2021					
3/12/2021					
9/8/2021		6.1			
9/9/2021			<1	217	110
9/10/2021	823				
9/13/2021					
1/18/2022		6.3	<1		
1/20/2022				211	101
1/21/2022					
1/24/2022	816				
1/25/2022					
1/26/2022					
1/28/2022					

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	DGWC-5	DGWC-11	DGWC-10	DGWC-14	DGWC-48	DGWC-12	DGWC-19
8/30/2016	693	414							
8/31/2016			524	307	525	106			
9/1/2016							845	568	396
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	727	449	690	358	595	138			
12/7/2016								559	400
12/8/2016							777		
3/28/2017		404	545						
3/29/2017	654			300	525	102		550	390
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				382	598	118		594	360
7/13/2017							789		
8/8/2017									
10/24/2017	468	599		342	353				
10/25/2017			650			88		571	423
10/26/2017							753		
11/15/2017					582				
2/27/2018	520	482	698	393	542	99		582	
2/28/2018									440
3/1/2018									
3/2/2018							704		
3/8/2018									
7/11/2018		532				119		593	457
7/12/2018							705		
11/6/2018	456	554	809	412	512				
11/7/2018						113	678	504	461
11/8/2018									
3/12/2019	438	493	711	433	436			465	
3/13/2019						280			113
3/14/2019							625		
10/15/2019				461	447			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		338	513
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 3/14/2022 2:27 PM View: AP 234 Appendix III  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-20	DGWC-22	DGWC-21	DGWC-15	DGWC-13	DGWC-17	DGWC-42	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016	704								
9/2/2016		1100	502	459					
9/6/2016					304	296			
9/7/2016							353	611	
12/6/2016									
12/7/2016		930			287	270			
12/8/2016	587		464	491			408	535	
3/28/2017									1160
3/29/2017		923	462						
3/30/2017				436	312	287	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	490 (O)	312	417		
7/13/2017	441		492					641	
8/8/2017									
10/24/2017									229
10/25/2017		854	477	474	290		343	626	
10/26/2017	444								
11/15/2017						325			1330
2/27/2018									1380
2/28/2018		888	476	480	313	84	364	616	
3/1/2018	435								
3/2/2018									
3/8/2018									
7/11/2018		826		485	320		393	638	
7/12/2018	372		486						
11/6/2018									1480
11/7/2018	348	834	511	516	325	314	408	626	
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	323	263			
3/4/2020	334	761					414	721	
3/9/2020									
9/22/2020		724						547	1400
9/23/2020	229				317	278			
9/24/2020			455	494			411		
3/1/2021									1140
3/2/2021		742			272	256			





# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III  
 Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWA-70A (bg)	DGWA-53 (bg)	DGWC-23	DGWC-2
8/30/2016					
8/31/2016					
9/1/2016					
9/2/2016					
9/6/2016					
9/7/2016					
12/6/2016					
12/7/2016					
12/8/2016					
3/28/2017	90	39	202		
3/29/2017					
3/30/2017				380	580
3/31/2017					
5/11/2017			241		573
5/12/2017	92			438	
5/15/2017		88			
6/15/2017		65	251	458	626
6/16/2017	100				
7/11/2017	59	25			542
7/12/2017			218	461	
7/13/2017					
8/8/2017		53			
10/24/2017	117	49	671 (O)		523
10/25/2017					
10/26/2017				446	
11/15/2017	90		241		
2/27/2018	79	43			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	85	65			334
11/7/2018			200		
11/8/2018				450	
3/12/2019	74	43			297
3/13/2019			201		
3/14/2019				453	
10/15/2019	89	70			
10/16/2019			126		
10/17/2019					302
10/18/2019				448	
3/2/2020	67	52			
3/3/2020					277
3/4/2020				408	
3/9/2020			171		
9/22/2020	74	46	142		
9/23/2020					267
9/24/2020				456	
3/1/2021	62	25			
3/2/2021					241

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 3/14/2022 2:27 PM View: AP 234 Appendix III  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWA-71 (bg)	DGWA-70A (bg)	DGWA-53 (bg)	DGWC-23	DGWC-2
3/3/2021				425	
3/4/2021					
3/12/2021			124		
9/8/2021	75				
9/9/2021		53	131	455	260
9/10/2021					
9/13/2021					
1/18/2022	76	54			
1/20/2022				453	238
1/21/2022					
1/24/2022					
1/25/2022					
1/26/2022					
1/28/2022			155		

FIGURE E.

# Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 3/14/2022, 3:13 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWC-10	-0.7132	-73	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-11	0.08249	75	48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-12	-1.43	-78	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-2	-0.2272	-99	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-20	-0.6903	-75	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-4	0.3017	65	48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-47	-0.03265	-87	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-48	-0.07326	-78	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-8	-0.3967	-78	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-9	-0.2711	-92	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-53 (bg)	-4.275	-63	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-11	4.601	75	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-19	6.354	87	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-2	-13.53	-95	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-4	17.38	59	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-48	-7.628	-87	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-5	7.063	55	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-53 (bg)	-0.1763	-70	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-12	-0.8473	-68	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-15	0.4803	57	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-19	-3.45	-83	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-20	2.662	93	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-21	-1.037	-76	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-22	-2.285	-80	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-23	-0.8946	-86	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-4	-3.438	-99	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-42	-3.126	-91	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-48	-1.978	-71	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-9	0.5633	54	53	Yes	15	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-47	-0.1955	-80	-63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-48	-0.1642	-76	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-13	-0.06625	-78	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.04803	76	63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-47	-0.1902	-68	-63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.1003	74	63	Yes	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-9	-0.02679	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-70A (bg)	-0.216	-55	-53	Yes	15	40	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWA-71 (bg)	-1.312	-82	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-12	-50.98	-68	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-15	-9.472	-71	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-19	14.93	62	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-2	-53.07	-97	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-20	-48.56	-81	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-21	-8.732	-57	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-42	-15.64	-54	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-47	-51.02	-88	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-48	-54.75	-90	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-8	-69.52	-85	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-23.75	-68	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	30.62	64	48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	32.84	66	53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-55	-79	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	79.25	55	53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-60.89	-93	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	39.72	67	48	Yes	14	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 3/14/2022, 3:13 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	DGWA-53 (bg)	-0.002527	-24	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-70A (bg)	0	28	53	No	15	53.33	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWA-71 (bg)	0.0001023	5	48	No	14	21.43	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-10</b>	<b>-0.7132</b>	<b>-73</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-11</b>	<b>0.08249</b>	<b>75</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-12</b>	<b>-1.43</b>	<b>-78</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-13	-0.07561	-48	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-15	0.008405	14	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-17	0.03786	51	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-19	-0.1663	-50	-53	No	15	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-2</b>	<b>-0.2272</b>	<b>-99</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-20</b>	<b>-0.6903</b>	<b>-75</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-21	0.2662	29	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-22	0.07733	22	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	DGWC-23	0.0895	26	53	No	15	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-4</b>	<b>0.3017</b>	<b>65</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-42	-0.01594	-35	-53	No	15	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-47</b>	<b>-0.03265</b>	<b>-87</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-48</b>	<b>-0.07326</b>	<b>-78</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	DGWC-5	-0.1368	-14	-48	No	14	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>DGWC-8</b>	<b>-0.3967</b>	<b>-78</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>DGWC-9</b>	<b>-0.2711</b>	<b>-92</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-4.275</b>	<b>-63</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWA-70A (bg)	-0.06518	-19	-53	No	15	6.667	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWA-71 (bg)	-0.5623	-35	-48	No	14	7.143	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-10	-1.103	-19	-48	No	14	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>DGWC-11</b>	<b>4.601</b>	<b>75</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWC-13	-0.7799	-18	-48	No	14	7.143	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>DGWC-19</b>	<b>6.354</b>	<b>87</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-2</b>	<b>-13.53</b>	<b>-95</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWC-20	-4.061	-29	-53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-21	2.327	53	53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-22	0.1555	16	53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	DGWC-23	1.537	46	53	No	15	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>DGWC-4</b>	<b>17.38</b>	<b>59</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-48</b>	<b>-7.628</b>	<b>-87</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>DGWC-5</b>	<b>7.063</b>	<b>55</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	DGWC-9	-5.365	-37	-53	No	15	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-0.1763</b>	<b>-70</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWA-70A (bg)	-0.079	-43	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWA-71 (bg)	0.1515	25	53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-10	-0.5794	-39	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-11	0.7627	45	48	No	14	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWC-12</b>	<b>-0.8473</b>	<b>-68</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWC-13	-0.2641	-11	-48	No	14	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWC-15</b>	<b>0.4803</b>	<b>57</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWC-17	0.529	33	53	No	15	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWC-19</b>	<b>-3.45</b>	<b>-83</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-20</b>	<b>2.662</b>	<b>93</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-21</b>	<b>-1.037</b>	<b>-76</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-22</b>	<b>-2.285</b>	<b>-80</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-23</b>	<b>-0.8946</b>	<b>-86</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-4</b>	<b>-3.438</b>	<b>-99</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-42</b>	<b>-3.126</b>	<b>-91</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>DGWC-48</b>	<b>-1.978</b>	<b>-71</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	DGWC-5	0.3113	45	48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	DGWC-8	-0.1555	-31	-48	No	14	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>DGWC-9</b>	<b>0.5633</b>	<b>54</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	DGWA-53 (bg)	-0.003916	-14	-68	No	18	11.11	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWA-70A (bg)	0	53	58	No	16	68.75	n/a	n/a	0.01	NP

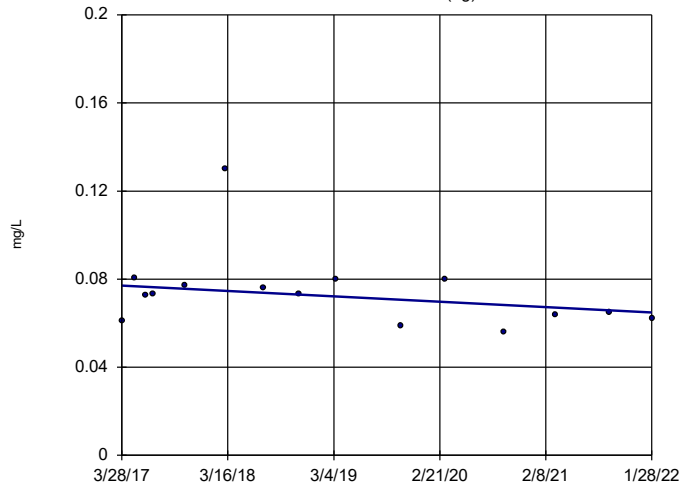
# Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 2

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 3/14/2022, 3:13 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Fluoride, total (mg/L)	DGWA-71 (bg)	0	35	63	No	17	82.35	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-10	0.03586	21	63	No	17	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	DGWC-20	0.04913	16	63	No	17	5.882	n/a	n/a	0.01	NP
<b>Fluoride, total (mg/L)</b>	<b>DGWC-47</b>	<b>-0.1955</b>	<b>-80</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Fluoride, total (mg/L)</b>	<b>DGWC-48</b>	<b>-0.1642</b>	<b>-76</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	DGWC-9	0.03215	20	63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-53 (bg)	0.02528	14	68	No	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-70A (bg)	-0.02535	-32	-63	No	17	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-71 (bg)	0.00911	13	68	No	18	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-10	0.03925	29	68	No	18	0	n/a	n/a	0.01	NP
<b>pH, Field (SU)</b>	<b>DGWC-13</b>	<b>-0.06625</b>	<b>-78</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH, Field (SU)</b>	<b>DGWC-19</b>	<b>0.04803</b>	<b>76</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH, Field (SU)	DGWC-20	-0.02415	-51	-58	No	16	0	n/a	n/a	0.01	NP
<b>pH, Field (SU)</b>	<b>DGWC-47</b>	<b>-0.1902</b>	<b>-68</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH, Field (SU)	DGWC-48	-0.04311	-40	-63	No	17	0	n/a	n/a	0.01	NP
<b>pH, Field (SU)</b>	<b>DGWC-5</b>	<b>0.1003</b>	<b>74</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH, Field (SU)</b>	<b>DGWC-9</b>	<b>-0.02679</b>	<b>-91</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWA-53 (bg)	-0.9208	-30	-58	No	16	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWA-70A (bg)</b>	<b>-0.216</b>	<b>-55</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>40</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWA-71 (bg)</b>	<b>-1.312</b>	<b>-82</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-10	-32.25	-48	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-11	11.59	36	48	No	14	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-12</b>	<b>-50.98</b>	<b>-68</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-13	-8.89	-47	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-14	-0.1167	-2	-48	No	14	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-15</b>	<b>-9.472</b>	<b>-71</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-17	-0.9288	-12	-53	No	15	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-19</b>	<b>14.93</b>	<b>62</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-2</b>	<b>-53.07</b>	<b>-97</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-20</b>	<b>-48.56</b>	<b>-81</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-21</b>	<b>-8.732</b>	<b>-57</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-22	-9.596	-24	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-23	0	-1	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	DGWC-4	23.78	31	53	No	15	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-42</b>	<b>-15.64</b>	<b>-54</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-47</b>	<b>-51.02</b>	<b>-88</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-48</b>	<b>-54.75</b>	<b>-90</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-5	-1.321	-3	-48	No	14	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>DGWC-8</b>	<b>-69.52</b>	<b>-85</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	DGWC-9	-11.86	-29	-53	No	15	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-23.75</b>	<b>-68</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWA-70A (bg)	0	-1	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-71 (bg)	-4.828	-41	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	-33.06	-50	-53	No	15	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-11</b>	<b>30.62</b>	<b>64</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	1.09	7	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	10.13	46	53	No	15	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-19</b>	<b>32.84</b>	<b>66</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-20</b>	<b>-55</b>	<b>-79</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	-2.212	-6	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	-6.767	-41	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	0.8022	6	53	No	15	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-4</b>	<b>79.25</b>	<b>55</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	-20.5	-38	-53	No	15	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-48</b>	<b>-60.89</b>	<b>-93</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>DGWC-5</b>	<b>39.72</b>	<b>67</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	DGWC-9	3.023	4	53	No	15	0	n/a	n/a	0.01	NP

### Sen's Slope Estimator

DGWA-53 (bg)



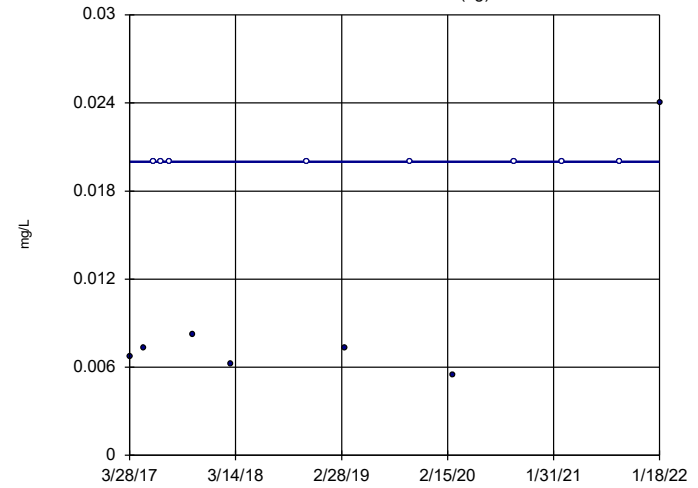
n = 15  
 Slope = -0.002527 units per year.  
 Mann-Kendall statistic = -24  
 critical = -53  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 3/14/2022 3:09 PM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

### Sen's Slope Estimator

DGWA-70A (bg)

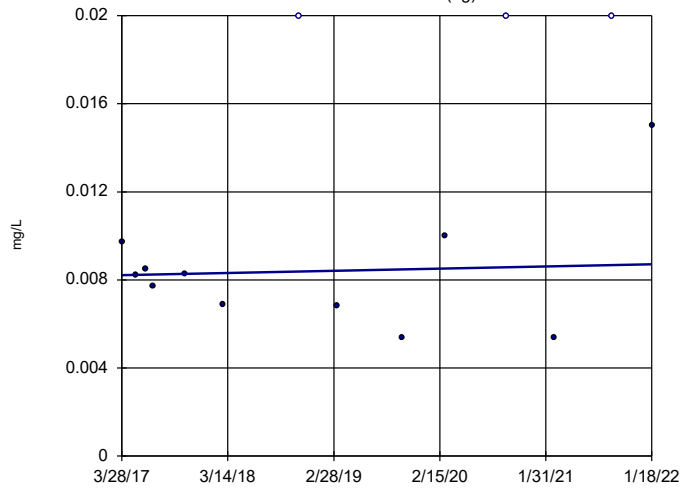


n = 15  
 Slope = 0 units per year.  
 Mann-Kendall statistic = 28  
 critical = 53  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 3/14/2022 3:09 PM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-71 (bg)

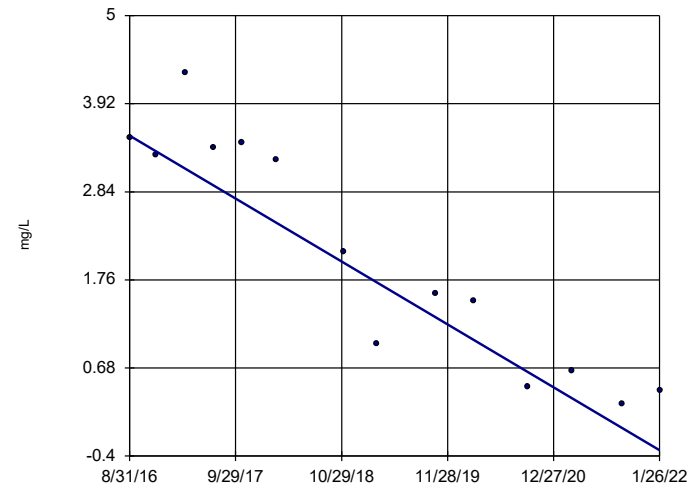


n = 14  
 Slope = 0.0001023 units per year.  
 Mann-Kendall statistic = 5  
 critical = 48  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 3/14/2022 3:09 PM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

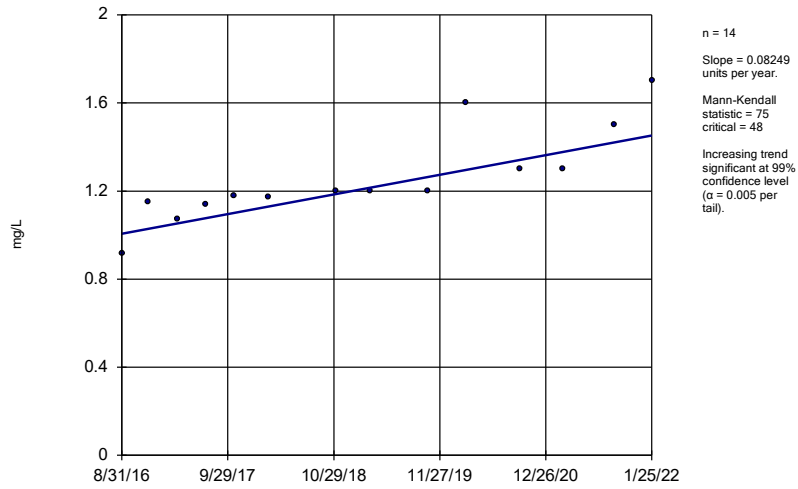
DGWC-10



n = 14  
 Slope = -0.7132 units per year.  
 Mann-Kendall statistic = -73  
 critical = -48  
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

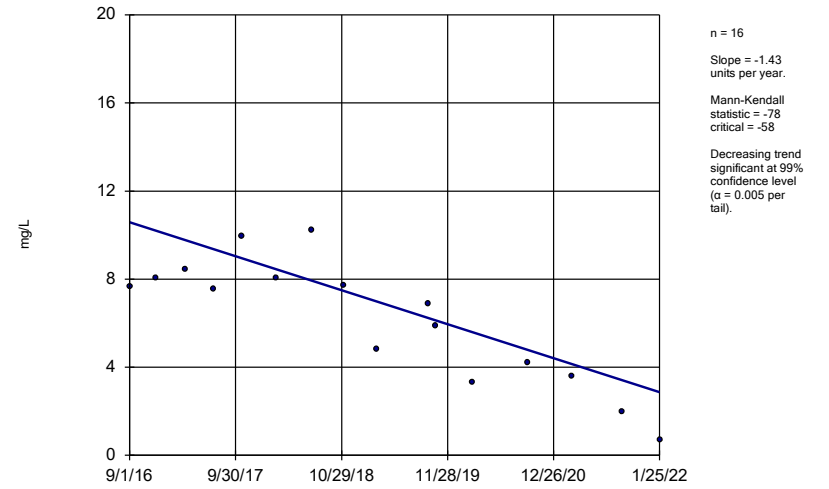
Constituent: Boron, total Analysis Run 3/14/2022 3:09 PM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-11



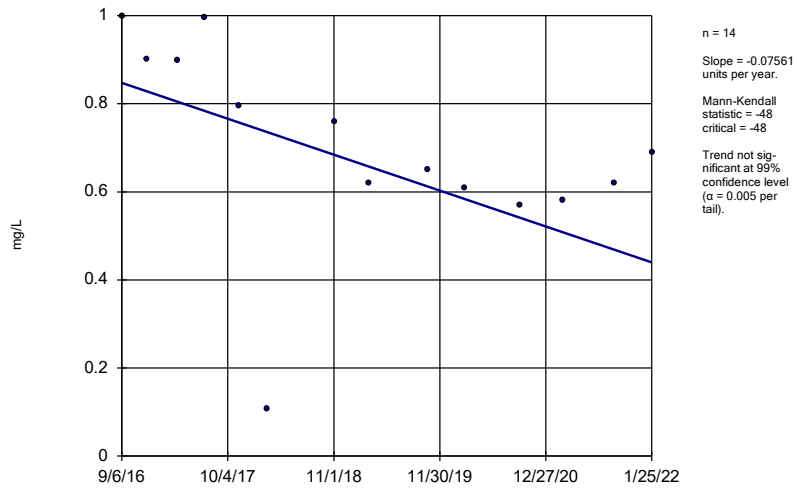
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-12



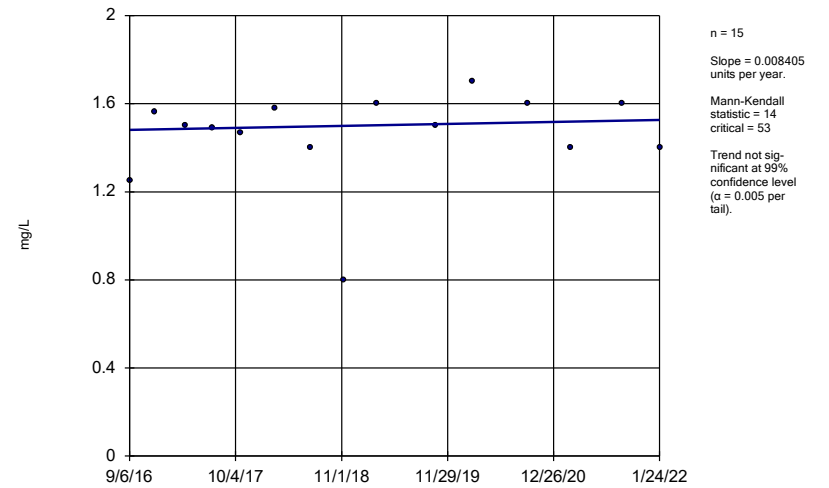
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-13



Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

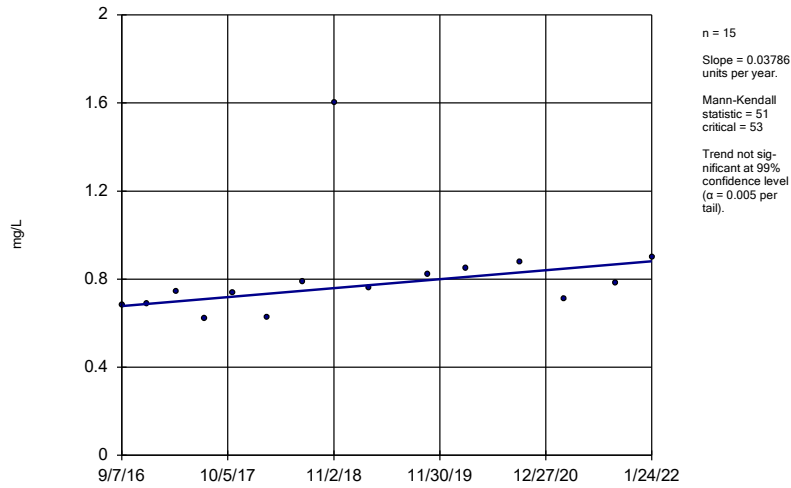
Sen's Slope Estimator  
DGWC-15



Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

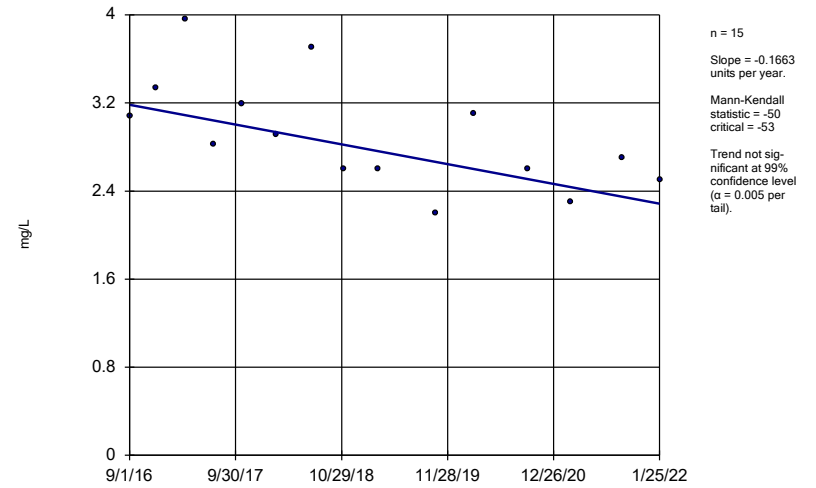


Sen's Slope Estimator  
DGWC-17



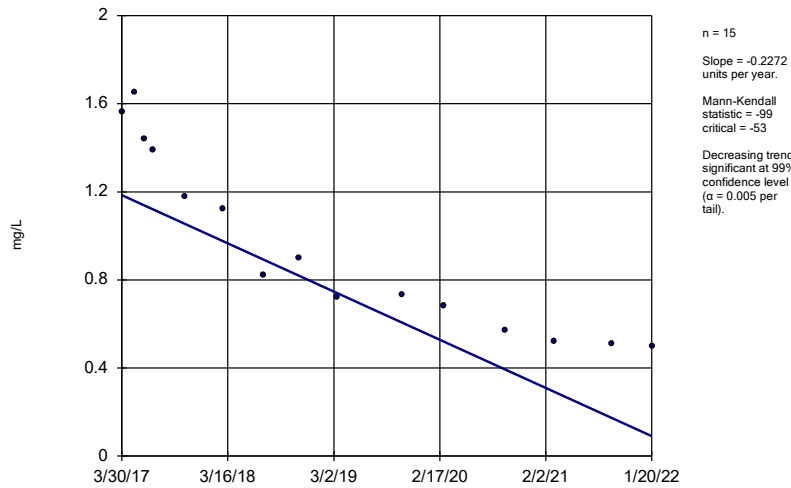
Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-19



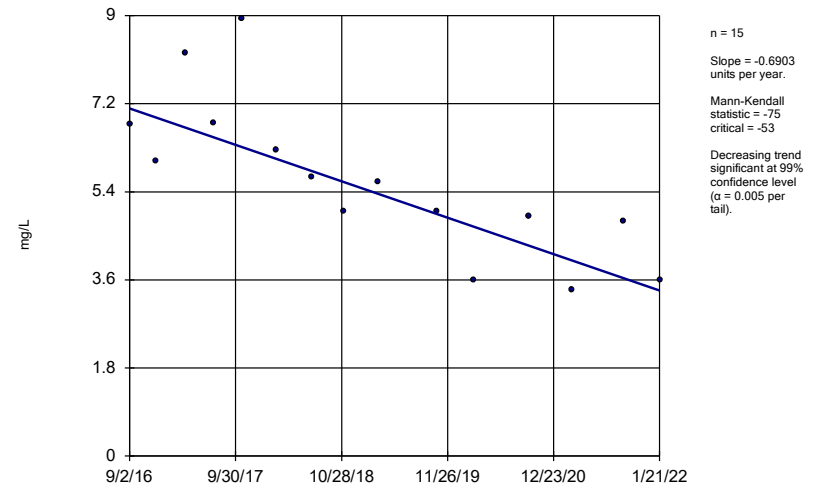
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-2



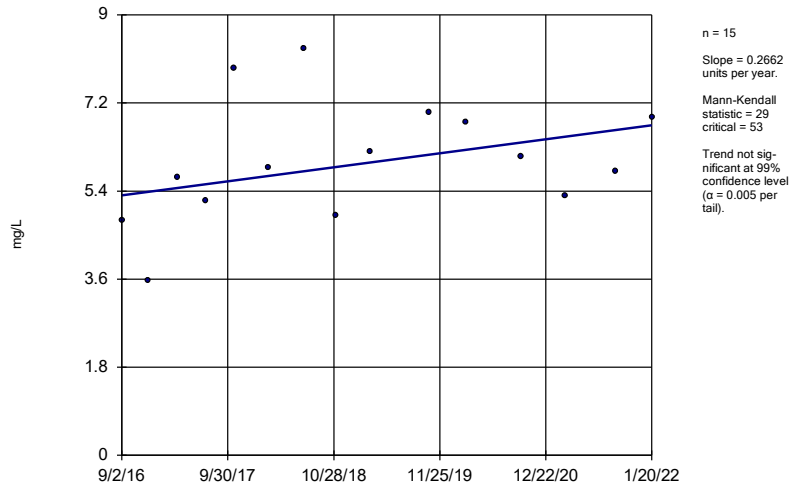
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-20



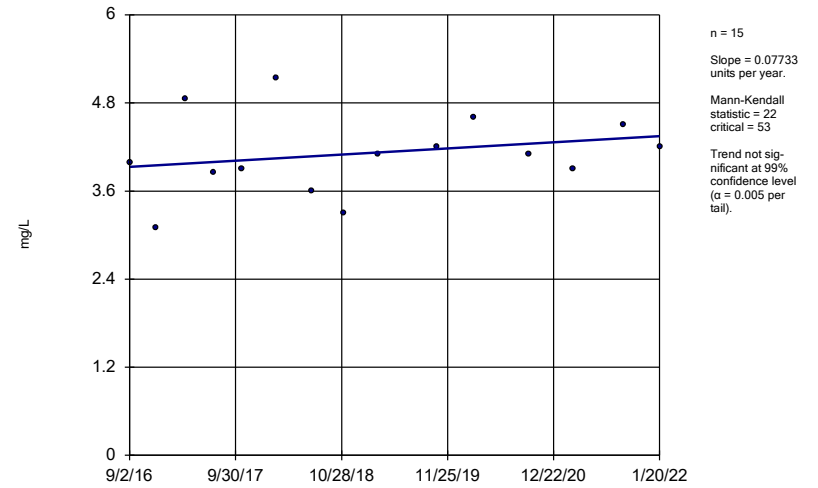
Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-21



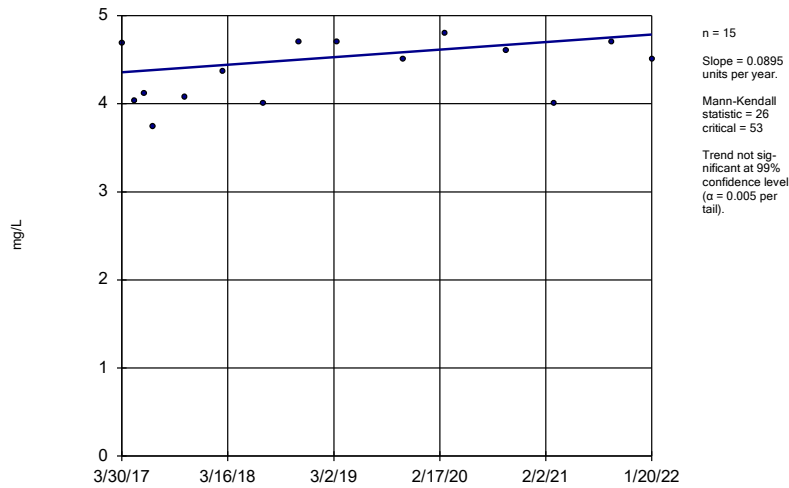
Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-22



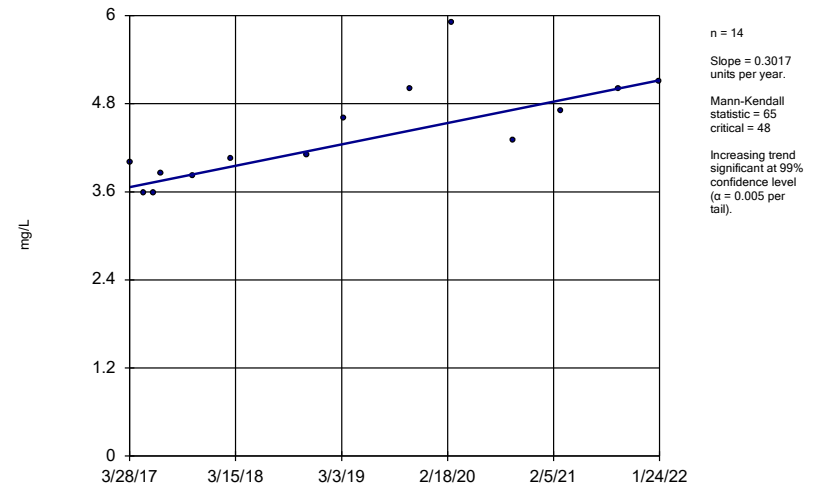
Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-23



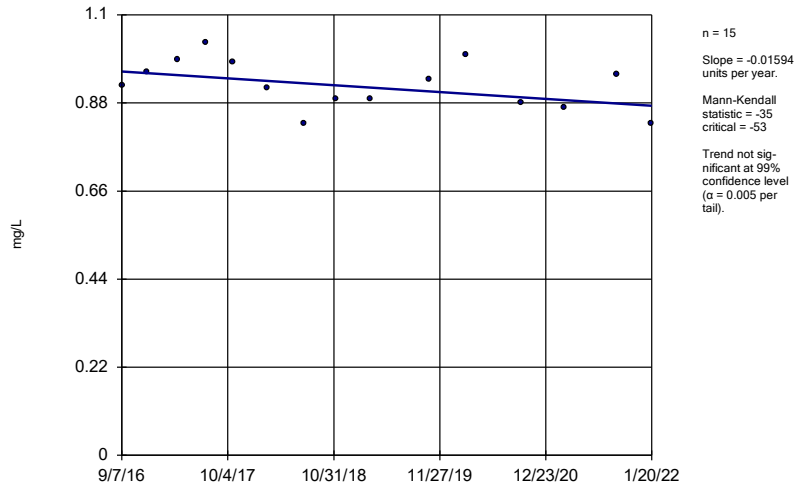
Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-4



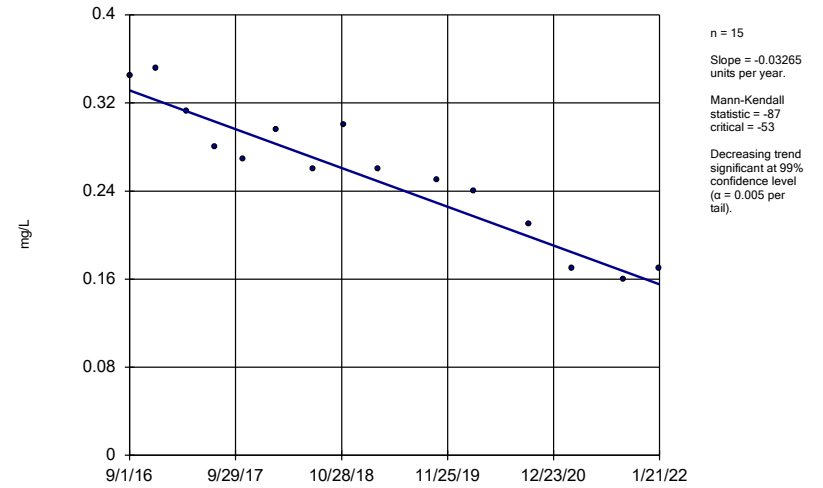
Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-42



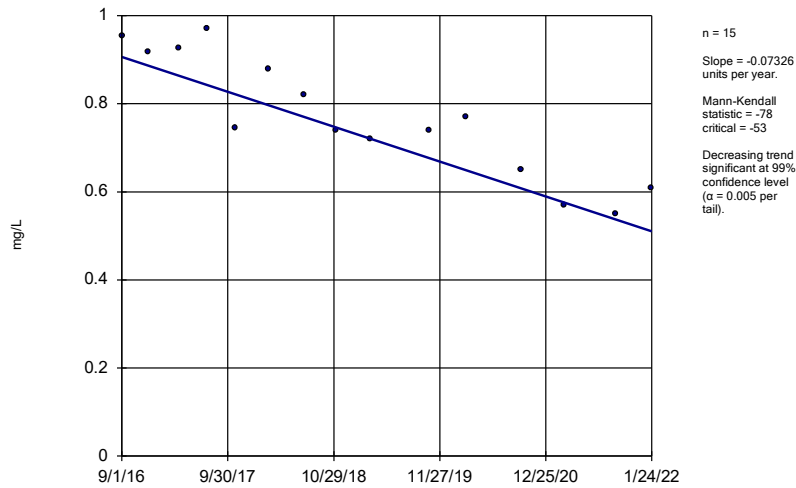
Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-47



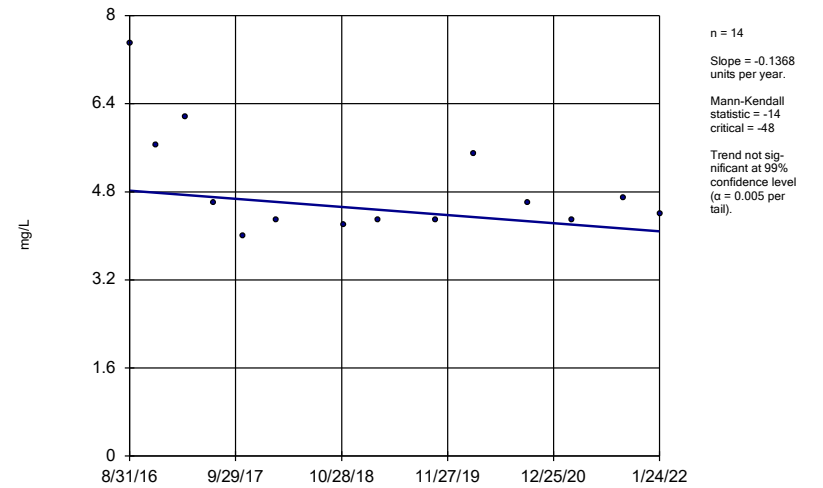
Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-48



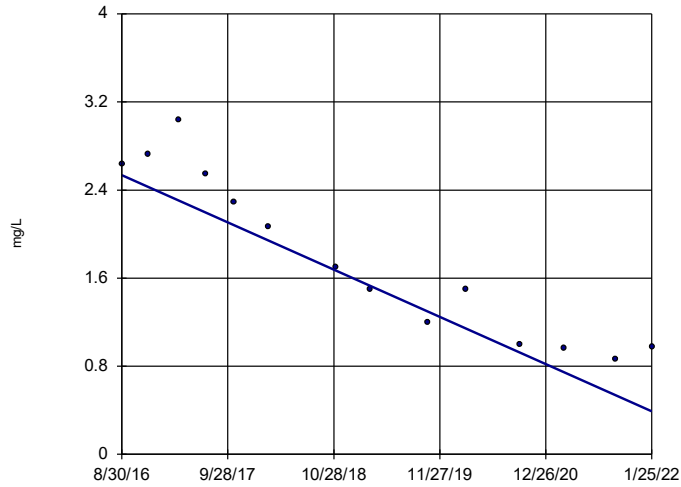
Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-5



Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

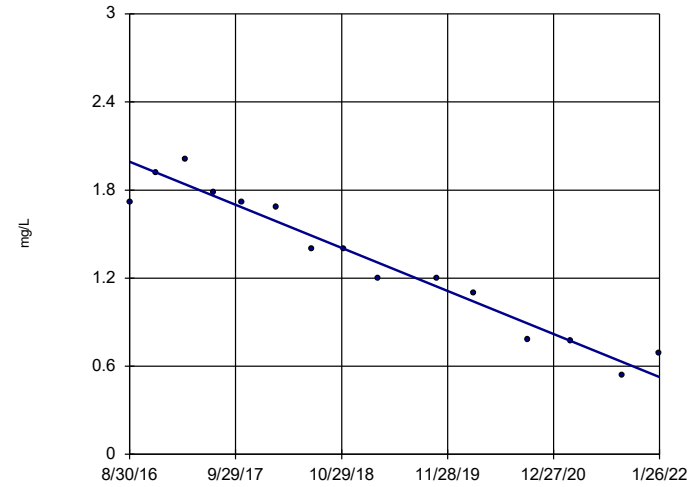
Sen's Slope Estimator  
DGWC-8



n = 14  
Slope = -0.3967  
units per year.  
Mann-Kendall  
statistic = -78  
critical = -48  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

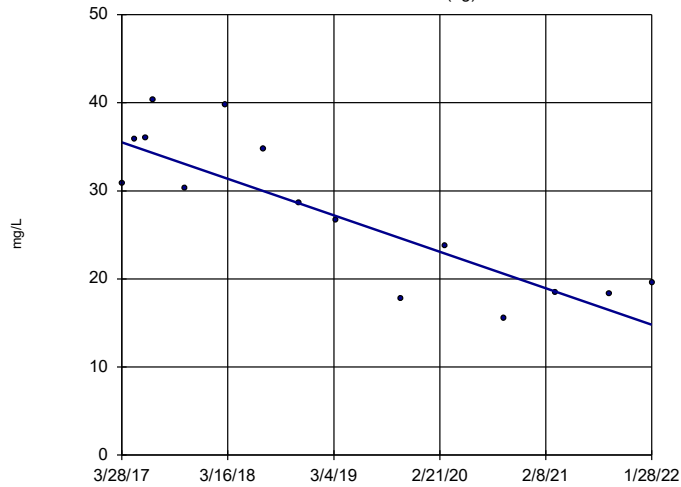
Sen's Slope Estimator  
DGWC-9



n = 15  
Slope = -0.2711  
units per year.  
Mann-Kendall  
statistic = -92  
critical = -53  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

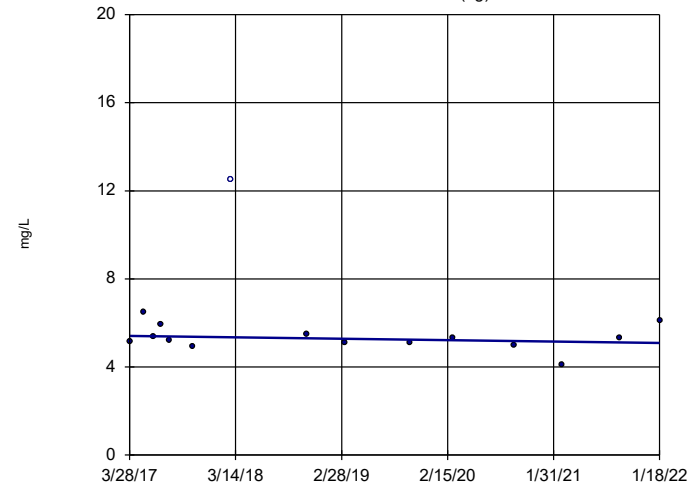
Sen's Slope Estimator  
DGWA-53 (bg)



n = 15  
Slope = -4.275  
units per year.  
Mann-Kendall  
statistic = -63  
critical = -53  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

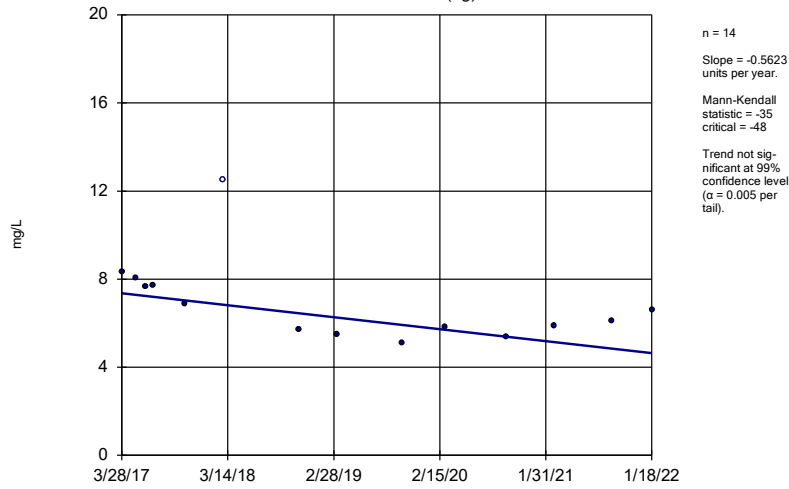
Sen's Slope Estimator  
DGWA-70A (bg)



n = 15  
Slope = -0.06518  
units per year.  
Mann-Kendall  
statistic = -19  
critical = -53  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

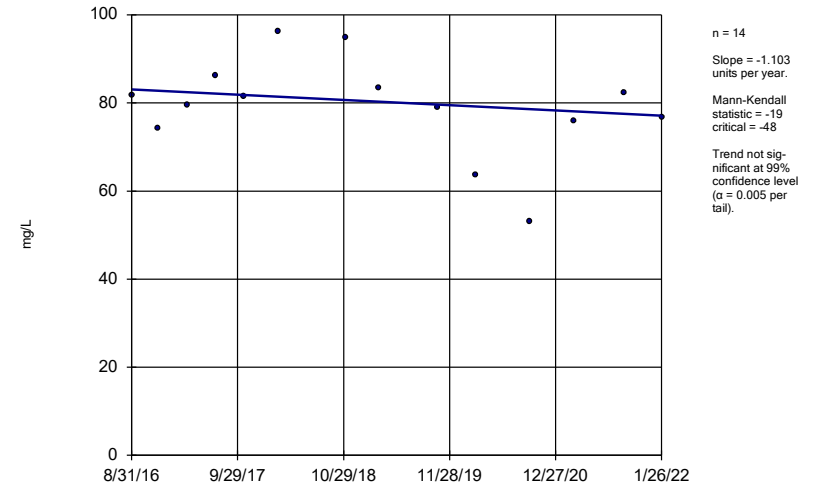
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
 DGWA-71 (bg)



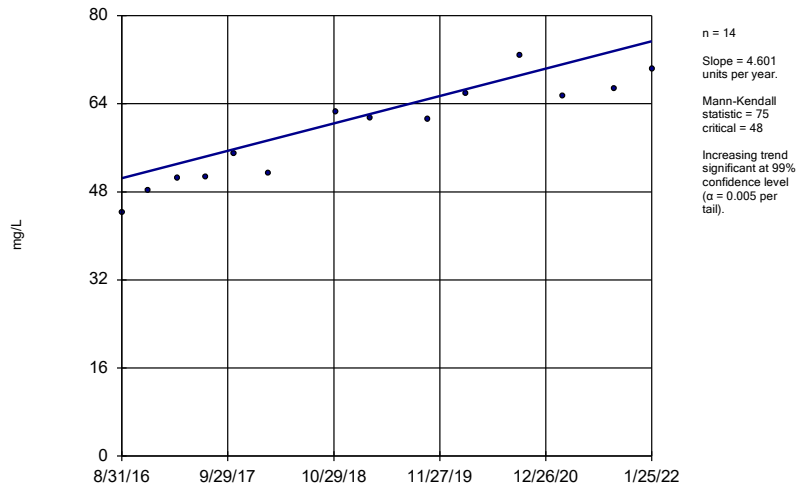
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
 DGWC-10



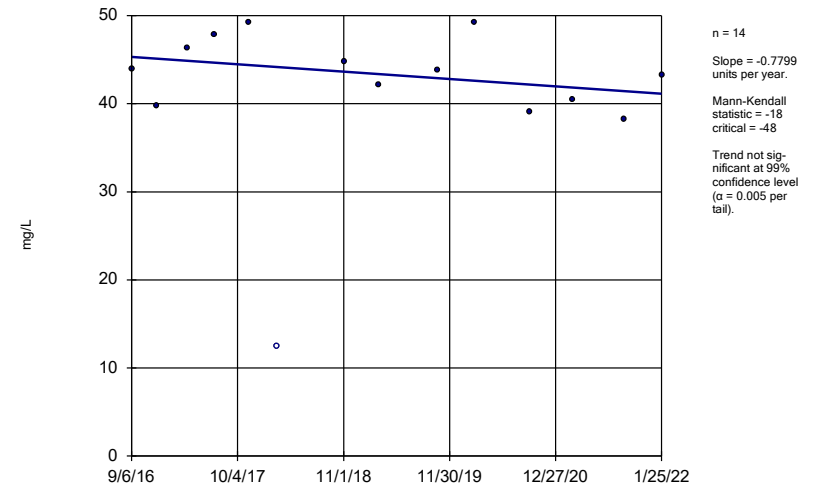
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
 DGWC-11



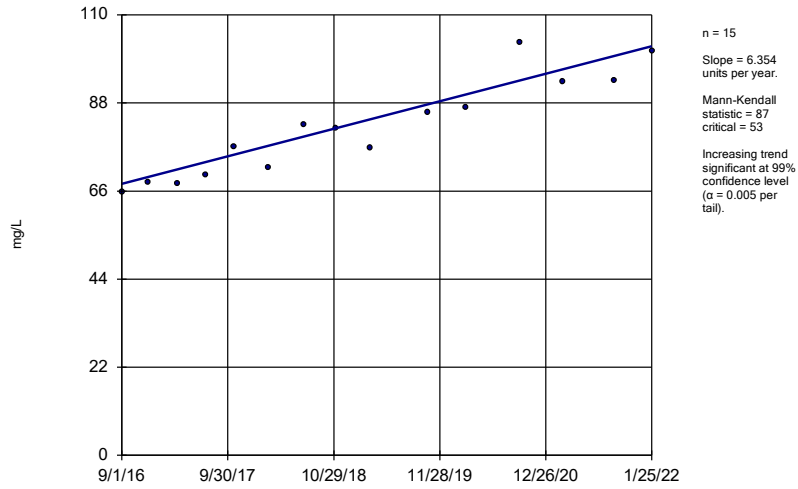
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
 DGWC-13



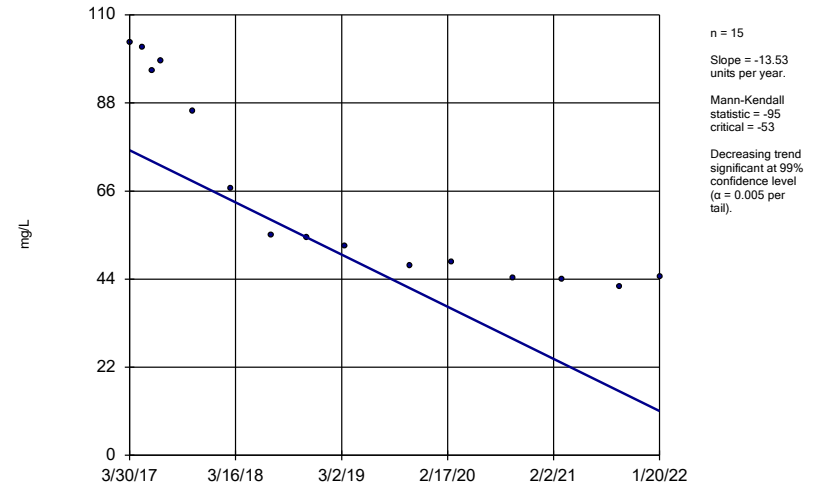
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-19



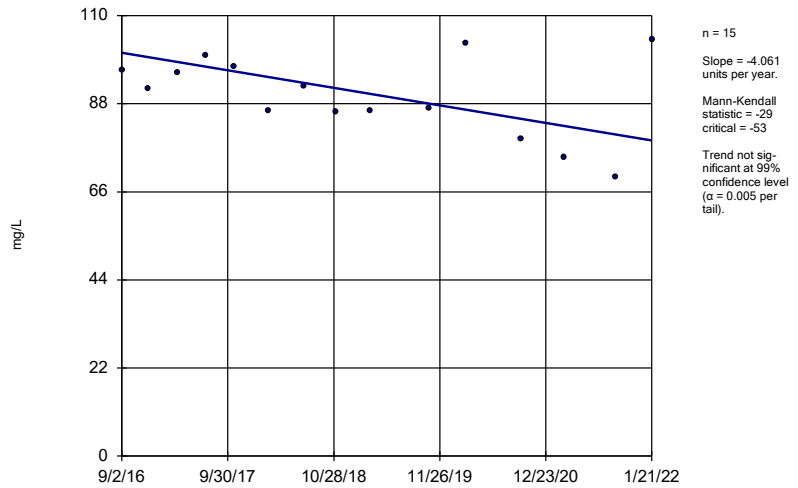
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-2



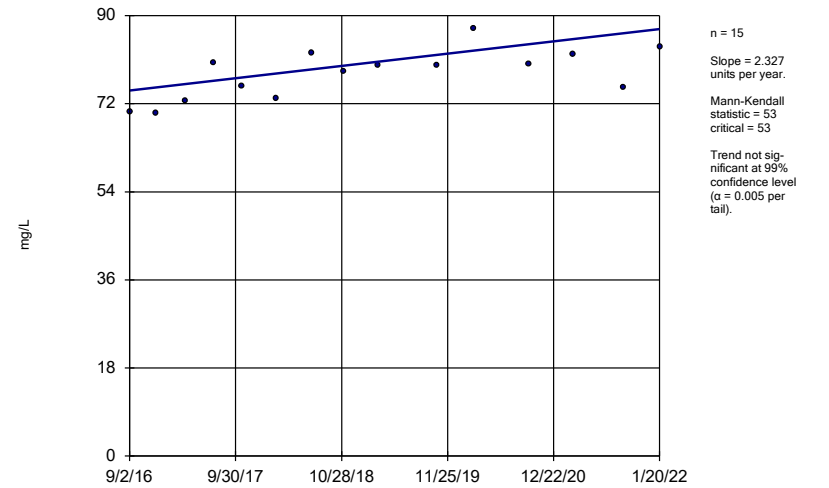
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-20



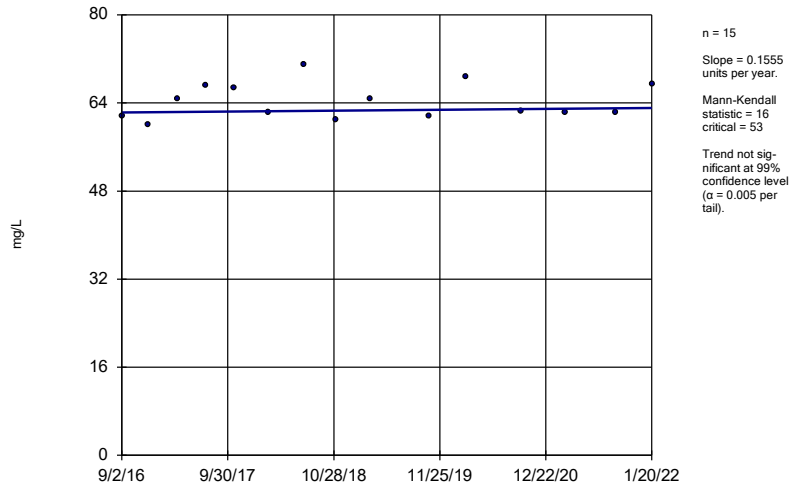
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-21



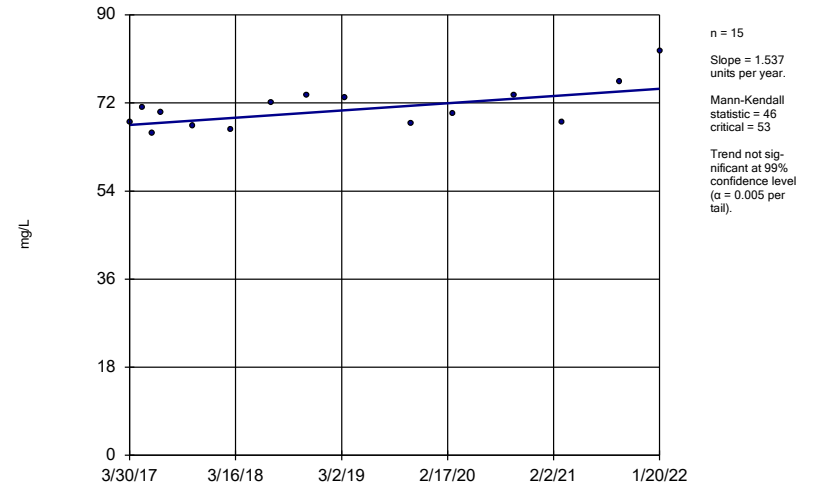
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-22



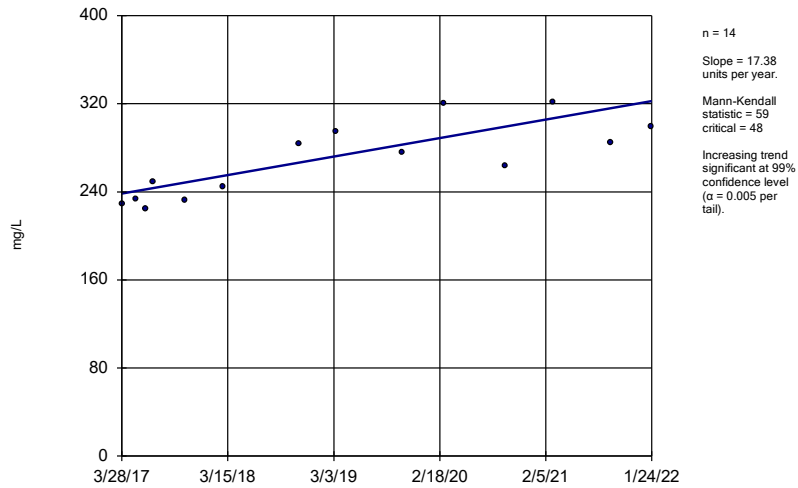
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-23



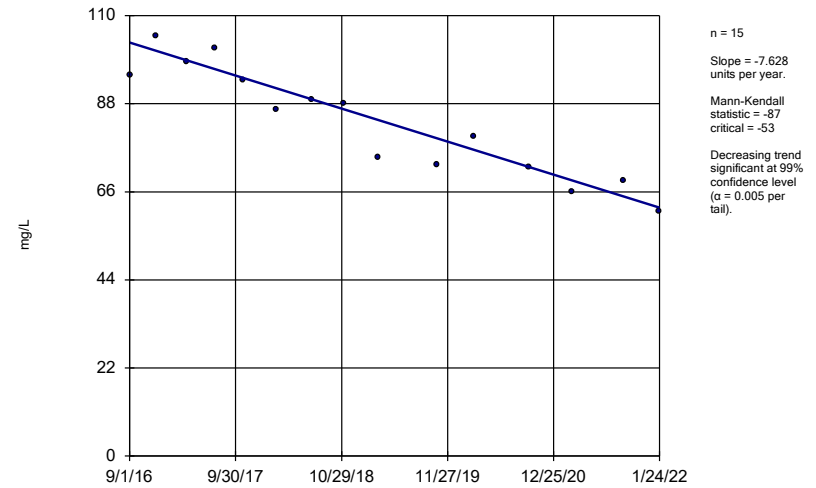
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-4



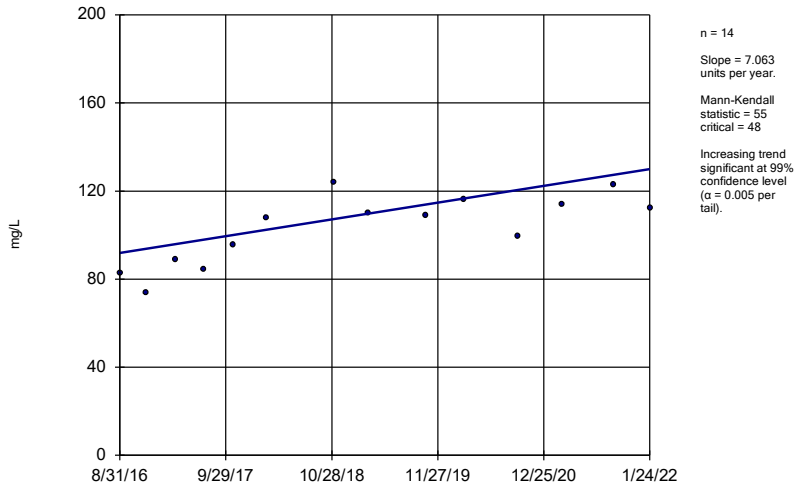
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-48



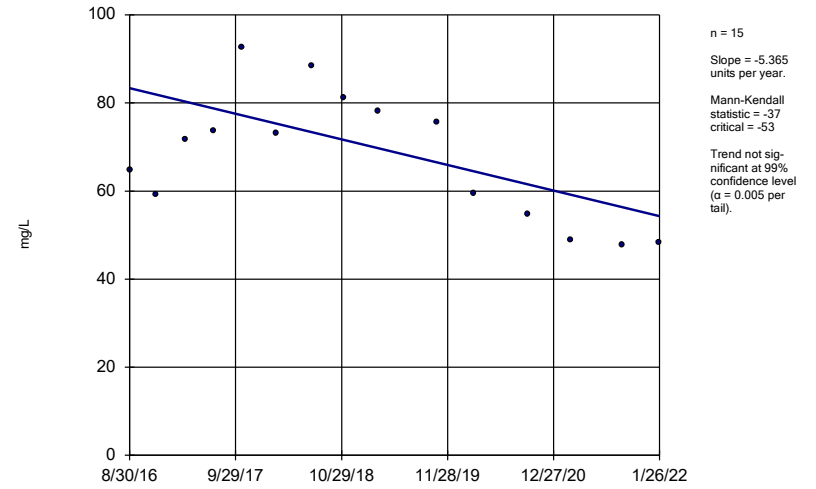
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-5



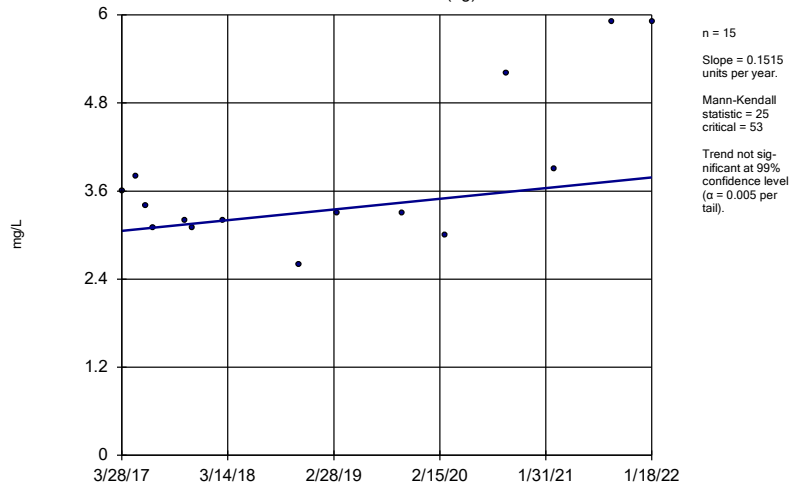
Constituent: Calcium, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-9



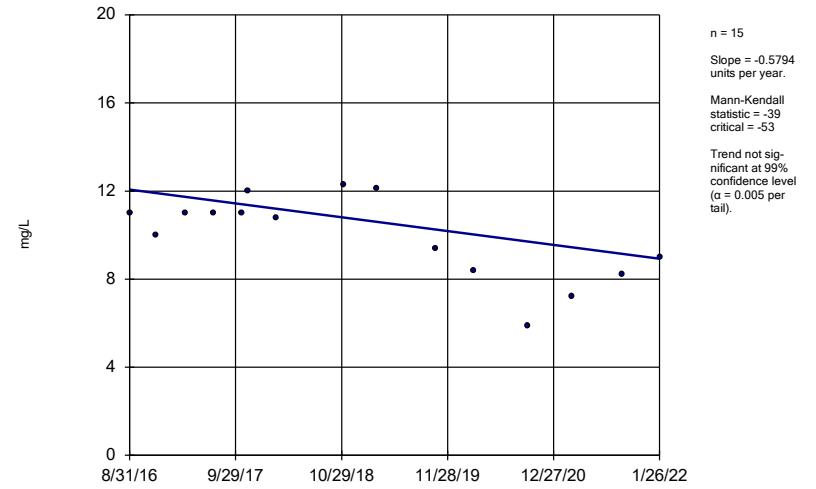


Sen's Slope Estimator  
DGWA-71 (bg)



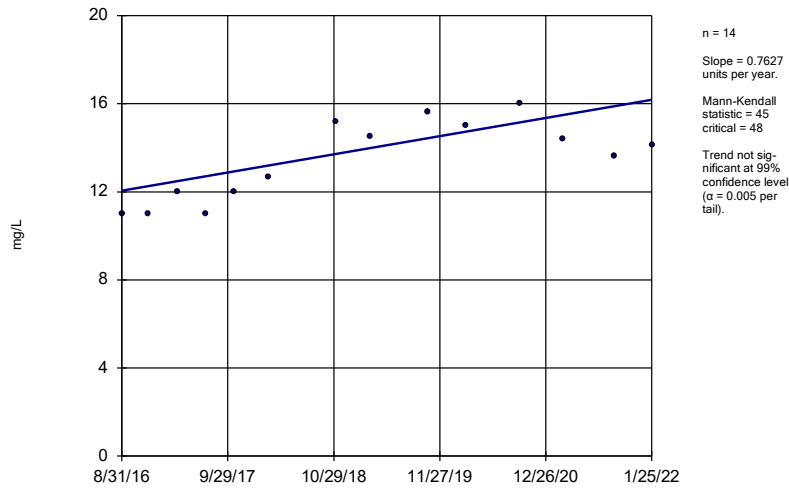
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-10



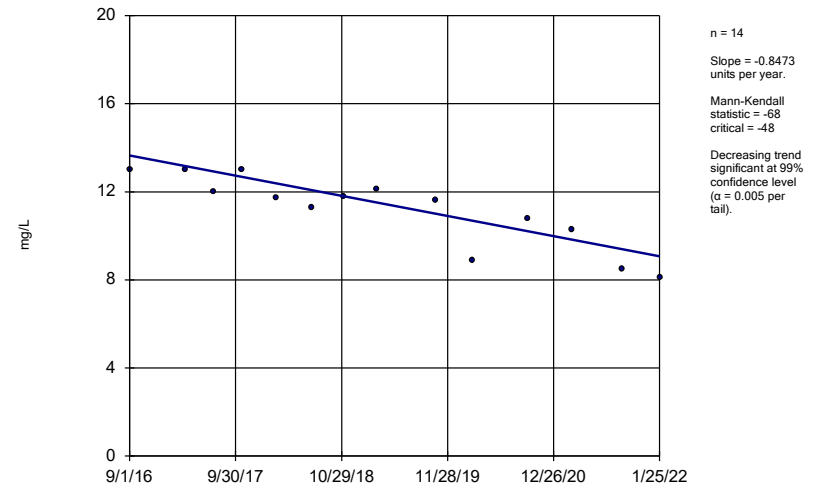
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-11



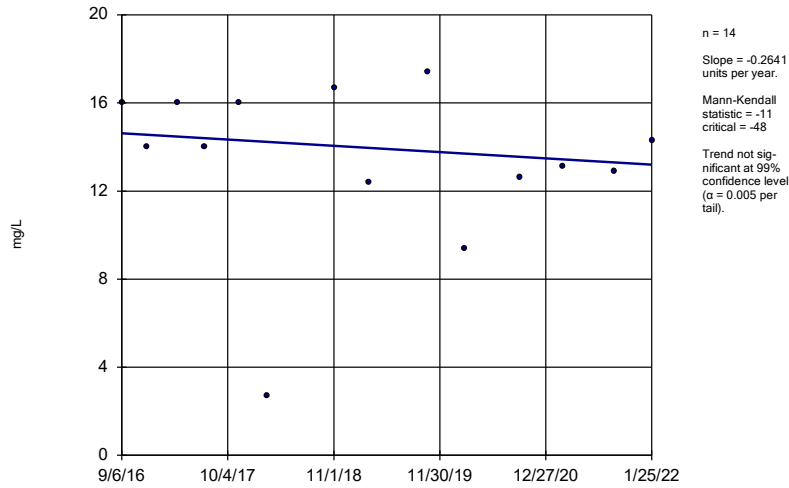
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-12



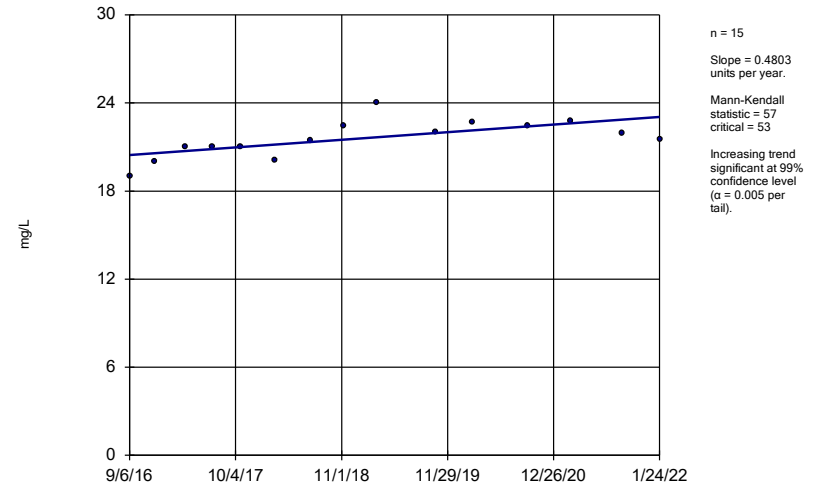
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-13



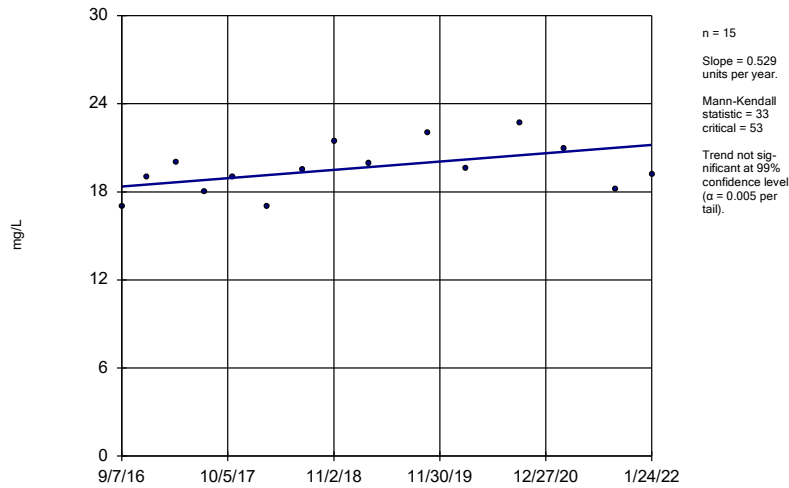
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-15



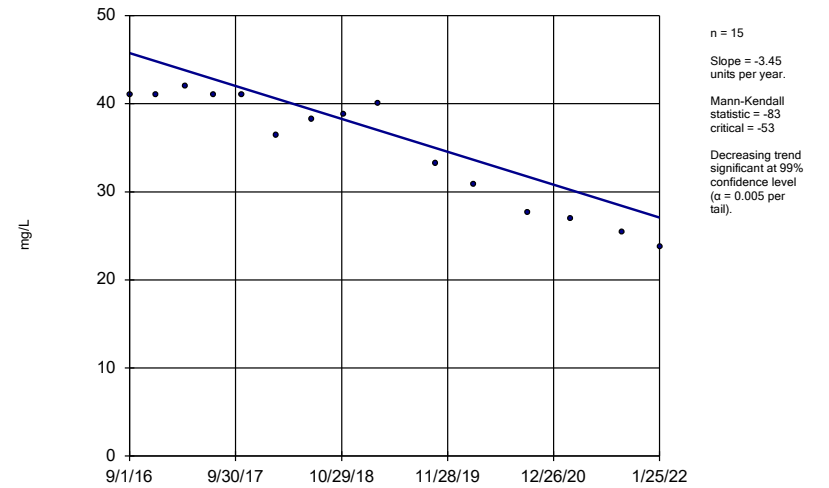
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-17



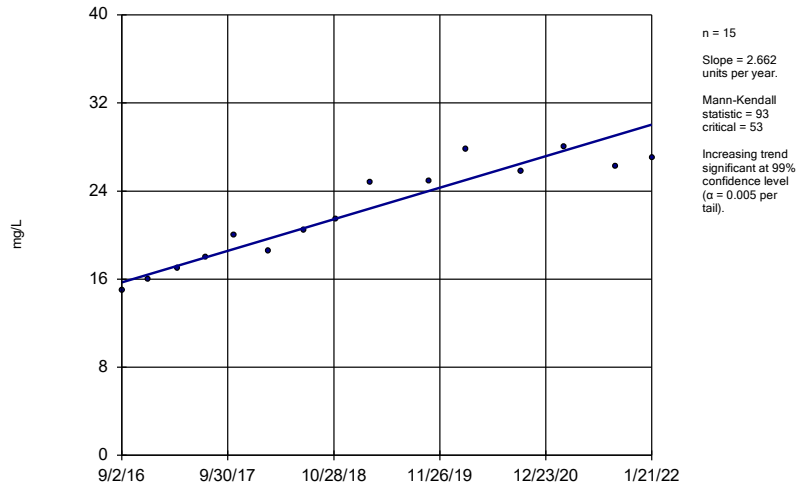
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-19



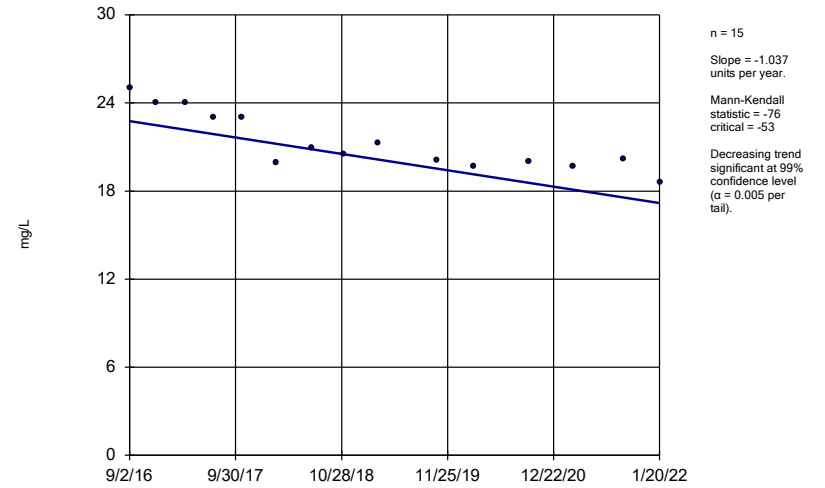
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-20



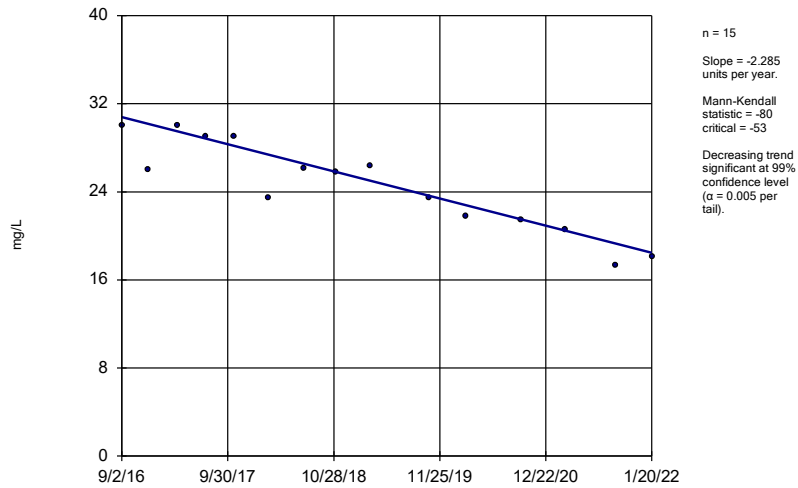
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-21



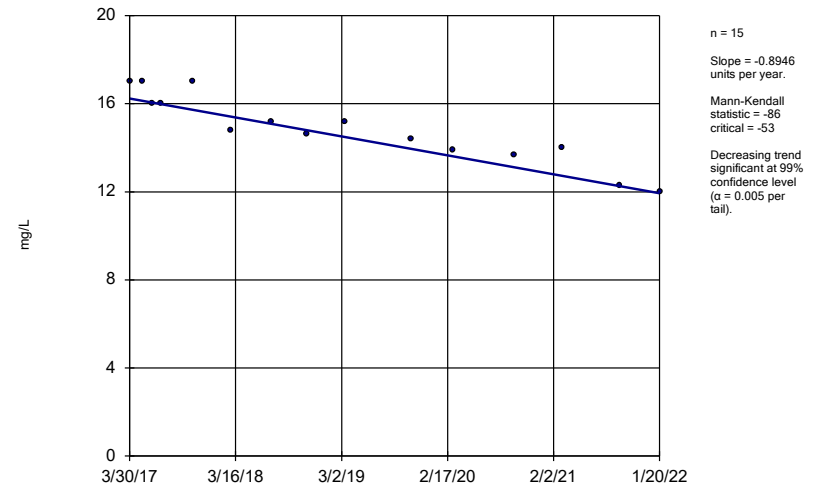
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-22



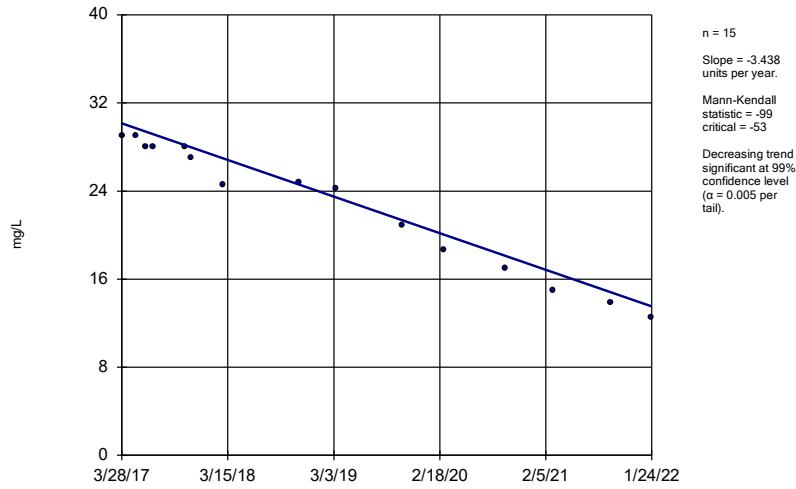
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-23



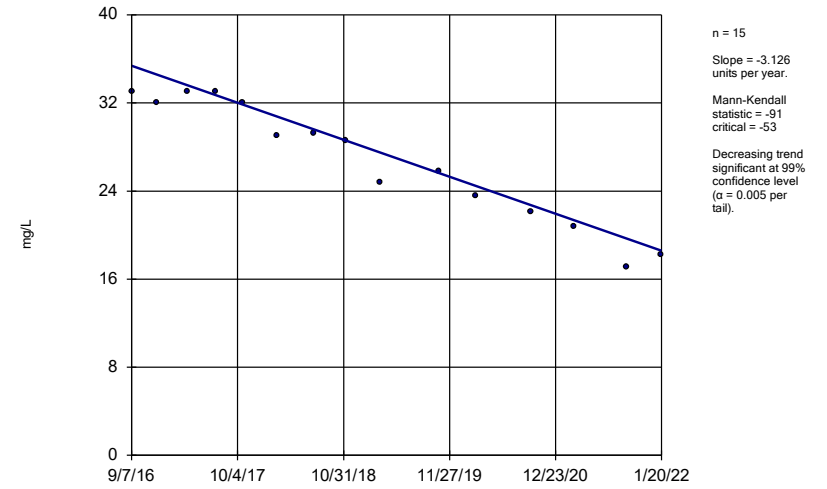
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-4



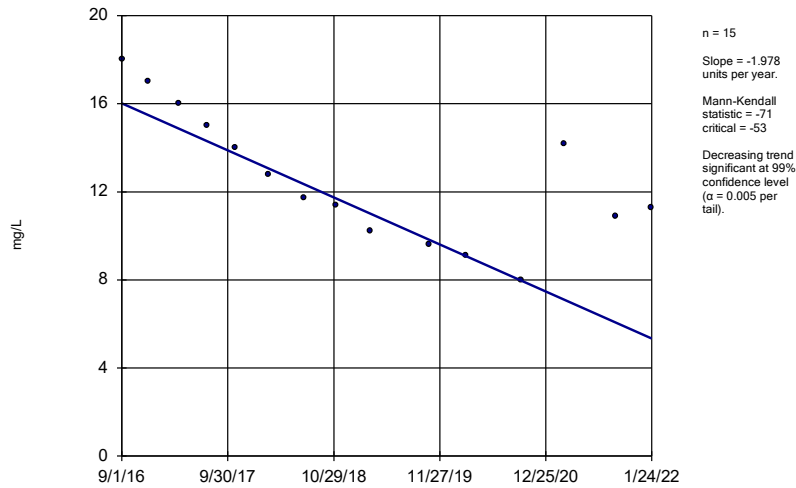
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-42



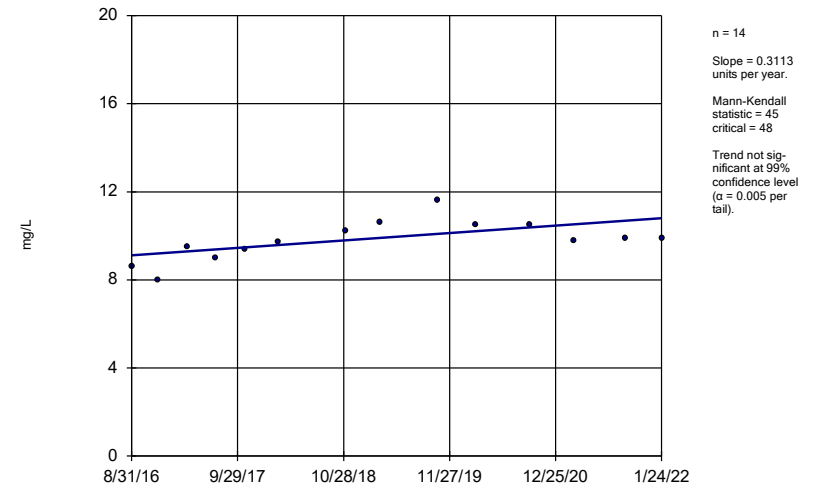
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-48



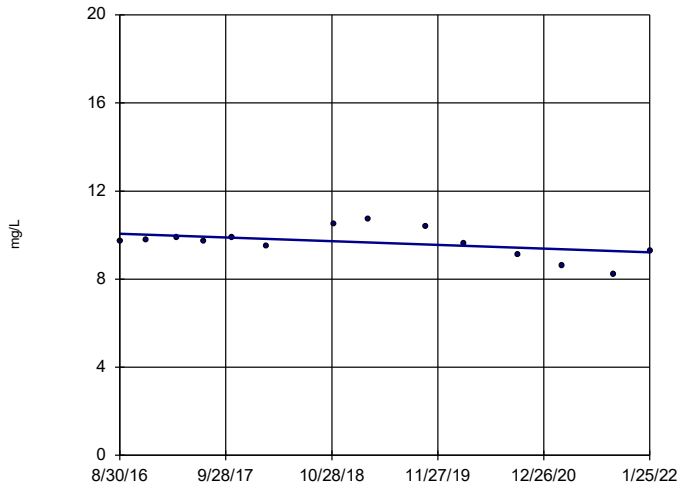
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-5



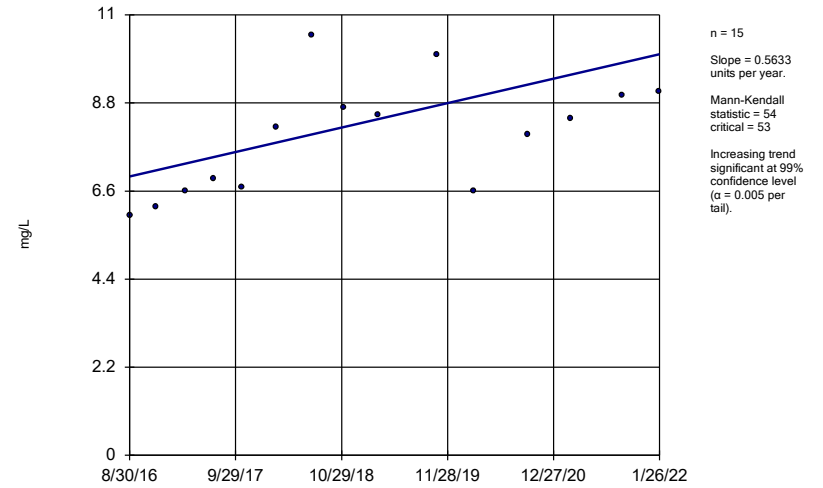
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-8



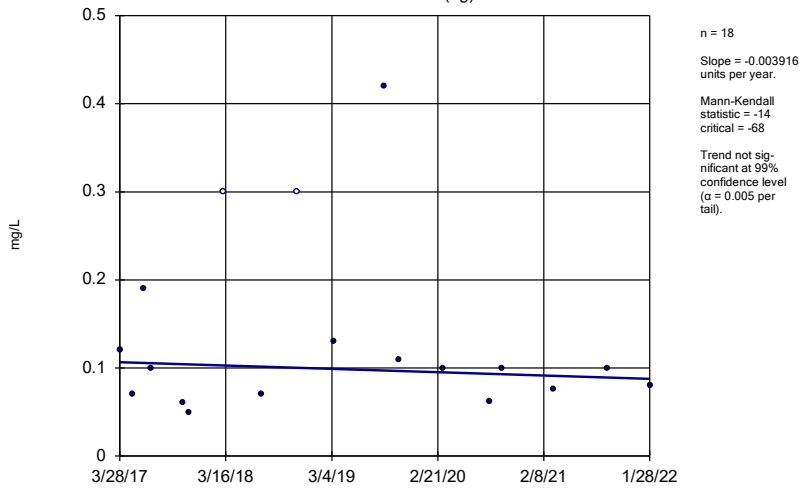
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-9



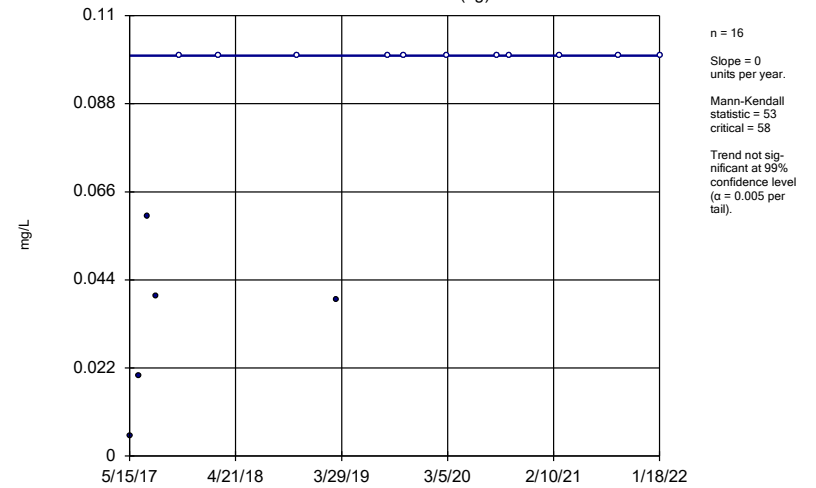
Constituent: Chloride, Total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-53 (bg)



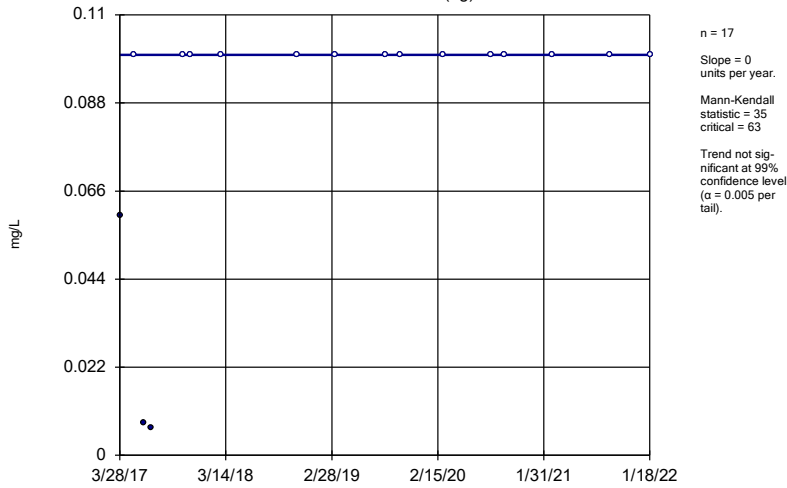
Constituent: Fluoride, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-70A (bg)



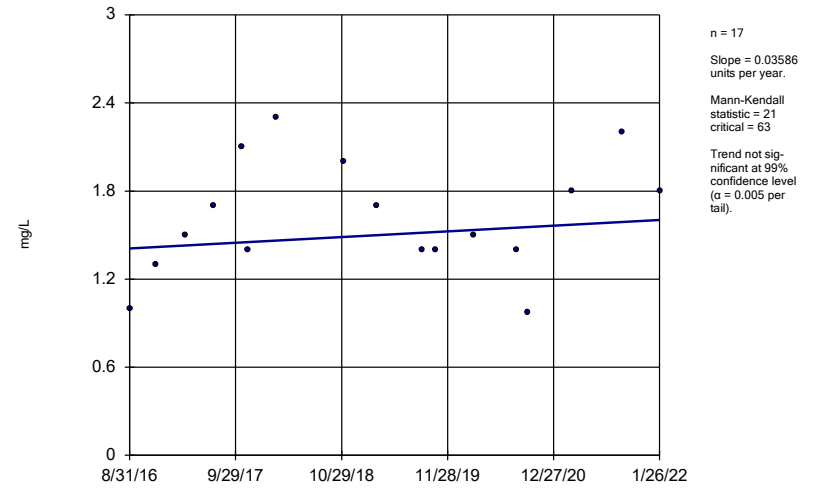
Constituent: Fluoride, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
 DGWA-71 (bg)



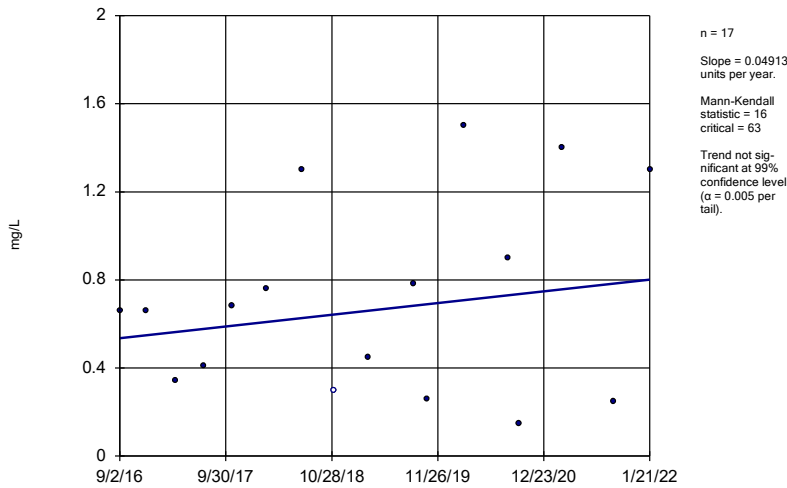
Constituent: Fluoride, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
 DGWC-10



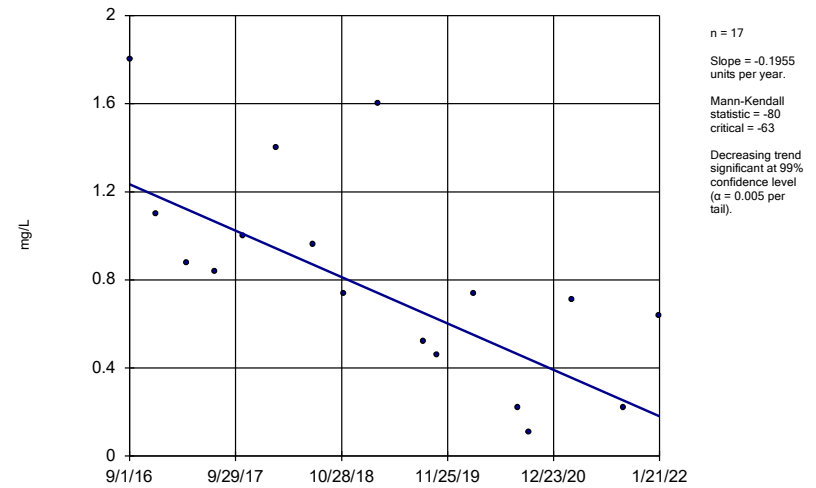
Constituent: Fluoride, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
 DGWC-20



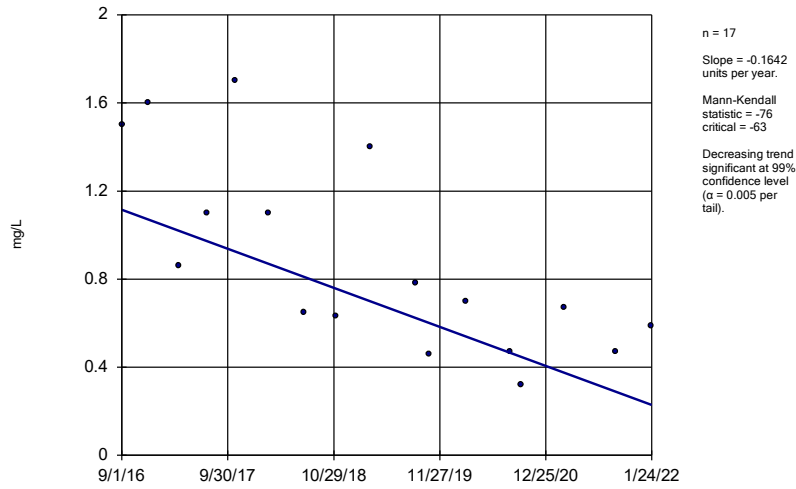
Constituent: Fluoride, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
 DGWC-47



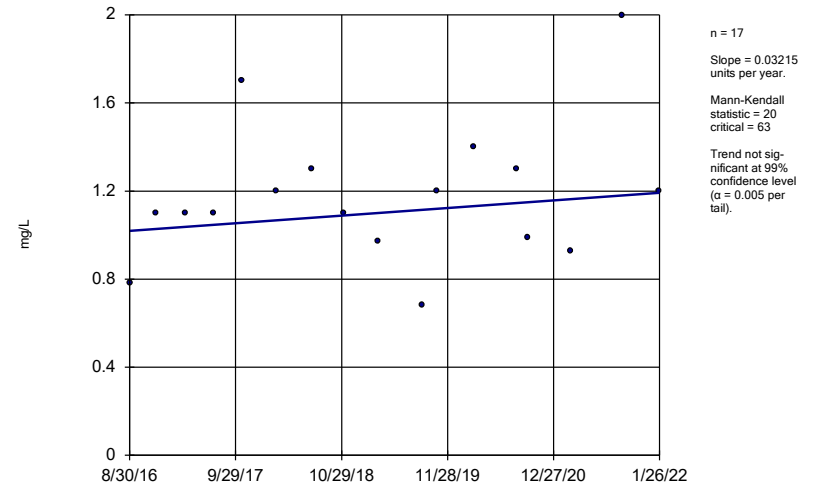
Constituent: Fluoride, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-48



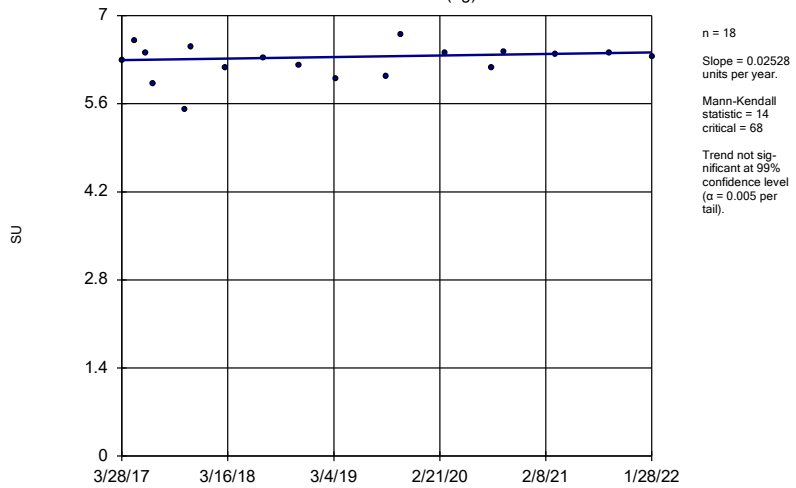
Constituent: Fluoride, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-9



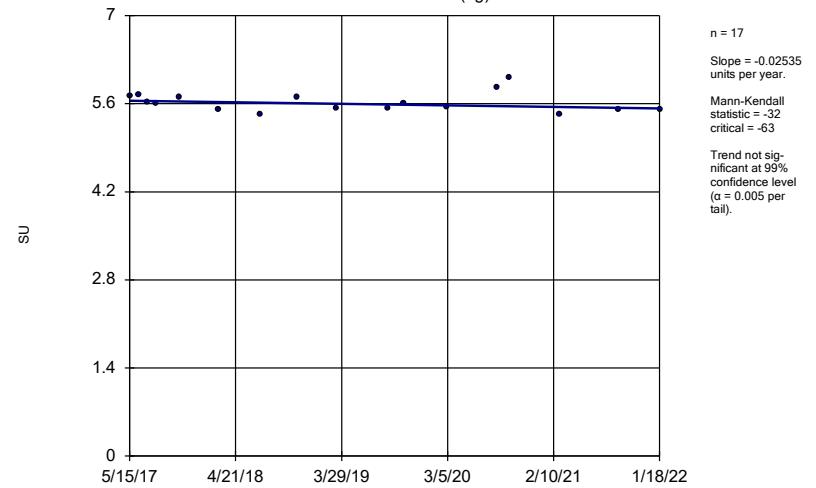
Constituent: Fluoride, total Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-53 (bg)



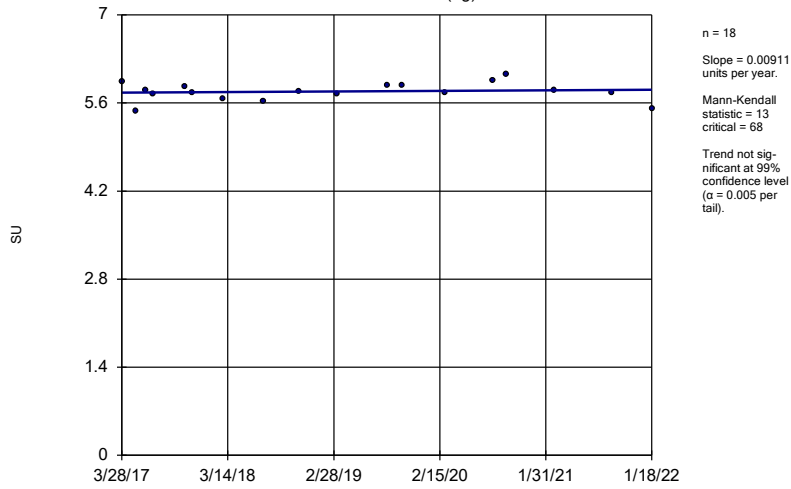
Constituent: pH, Field Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-70A (bg)



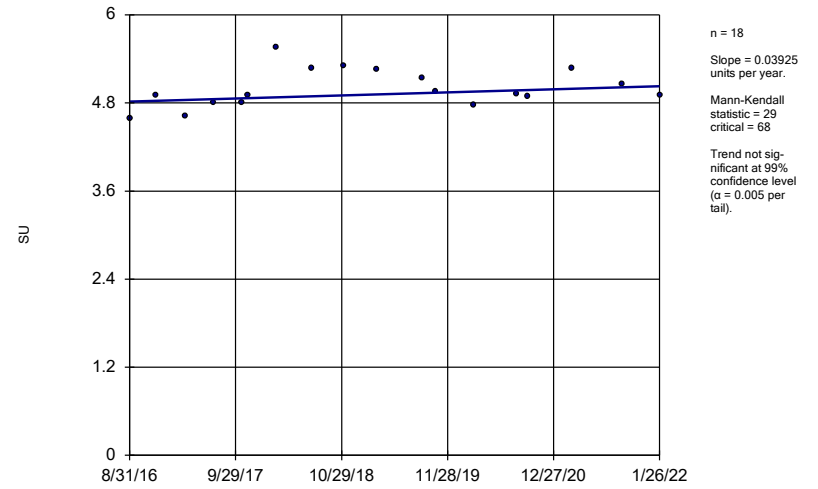
Constituent: pH, Field Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-71 (bg)



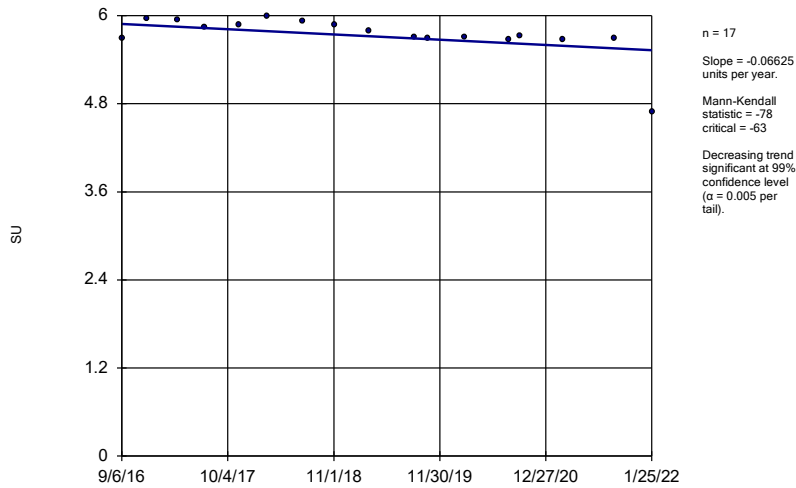
Constituent: pH, Field Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-10



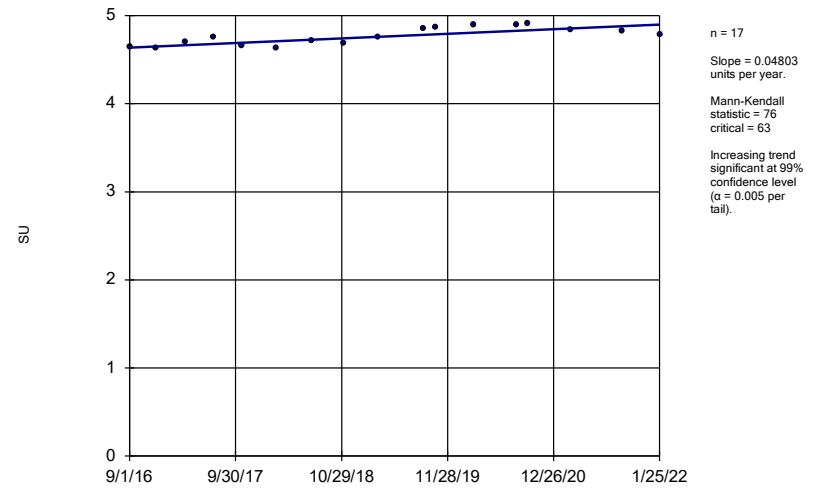
Constituent: pH, Field Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-13



Constituent: pH, Field Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

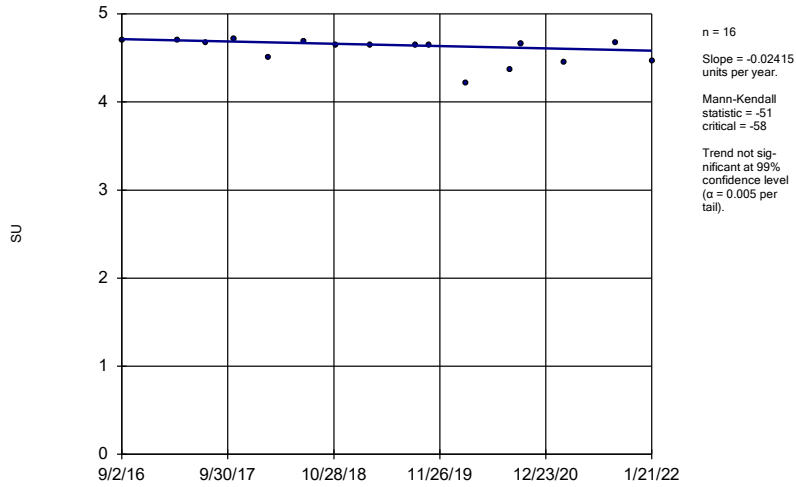
Sen's Slope Estimator  
DGWC-19



Constituent: pH, Field Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

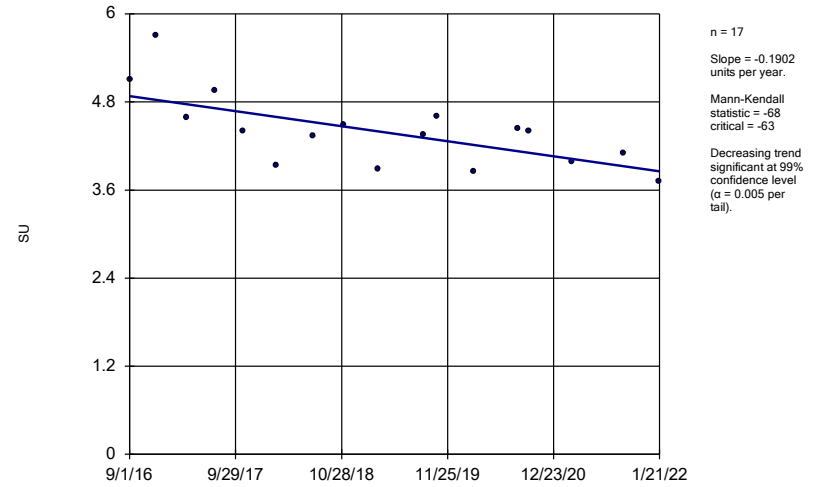


Sen's Slope Estimator  
DGWC-20



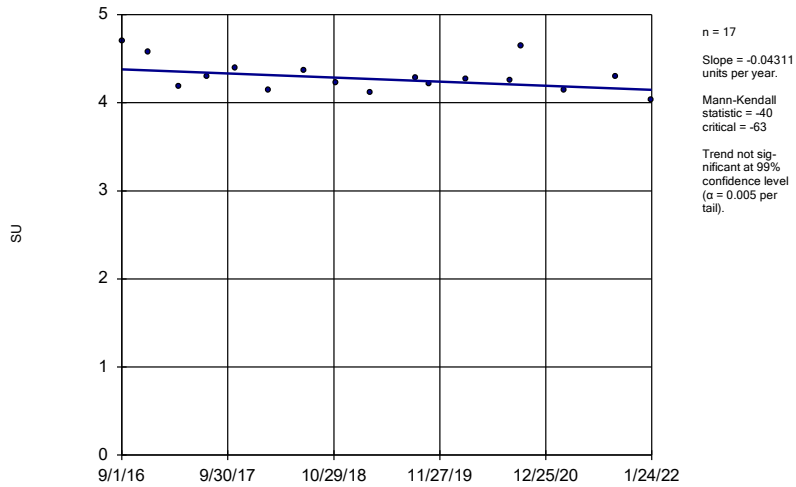
Constituent: pH, Field Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-47



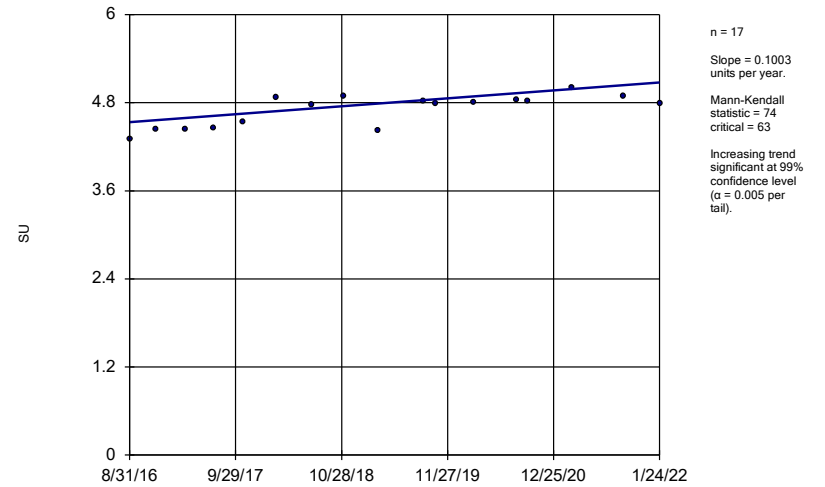
Constituent: pH, Field Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-48



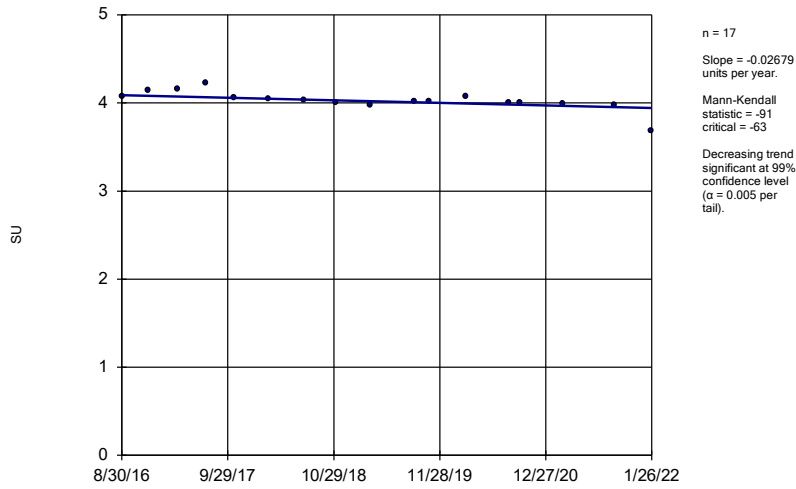
Constituent: pH, Field Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-5



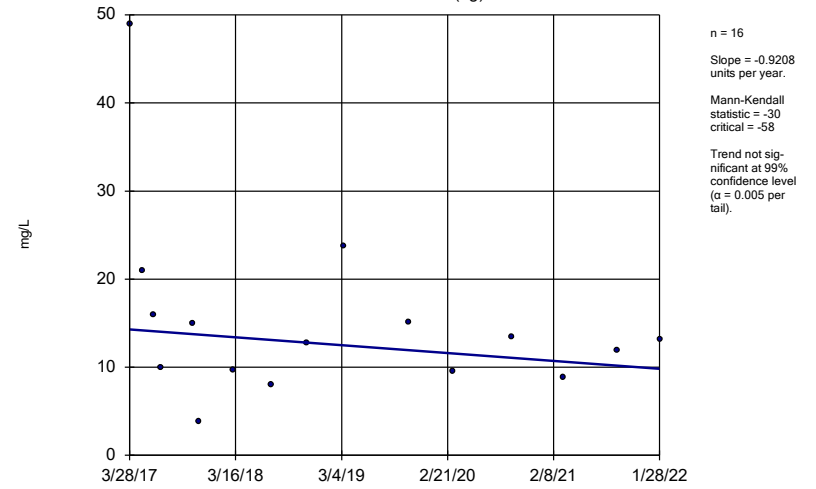
Constituent: pH, Field Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-9



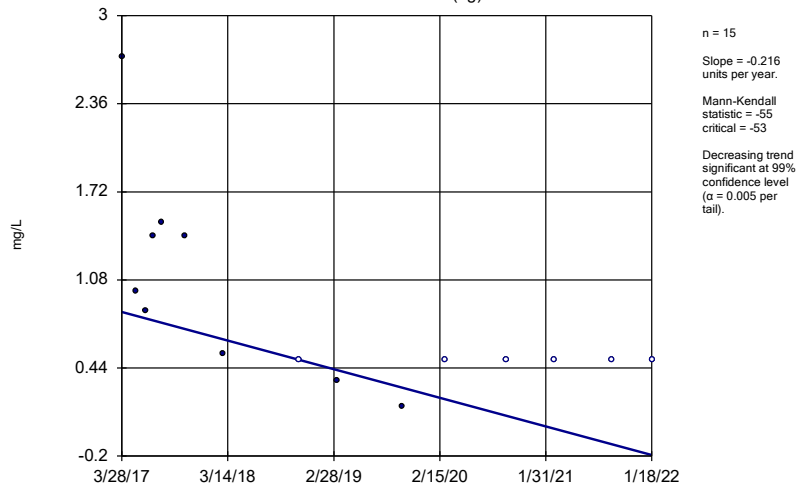
Constituent: pH, Field Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-53 (bg)



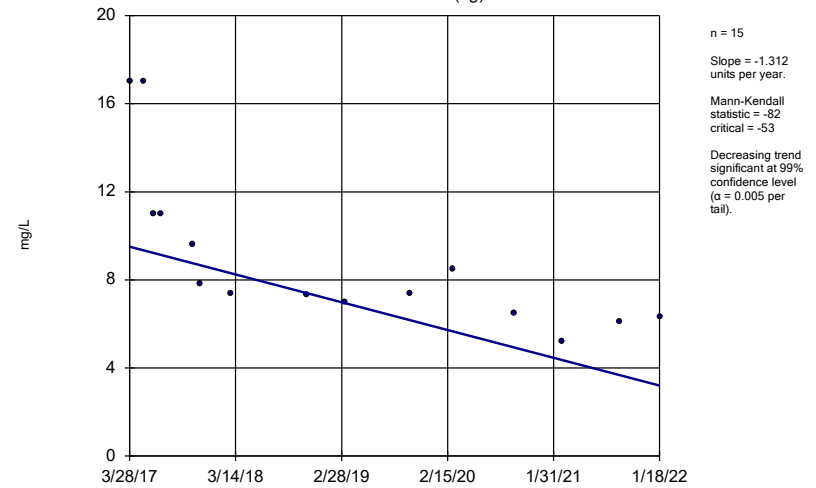
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-70A (bg)



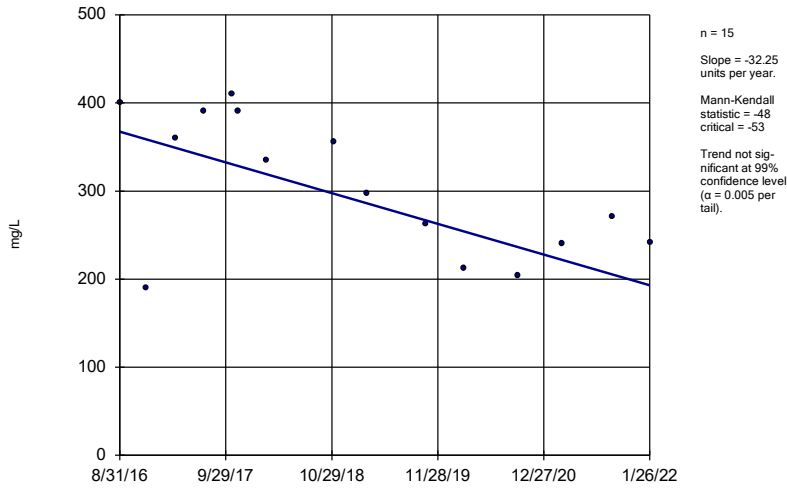
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-71 (bg)



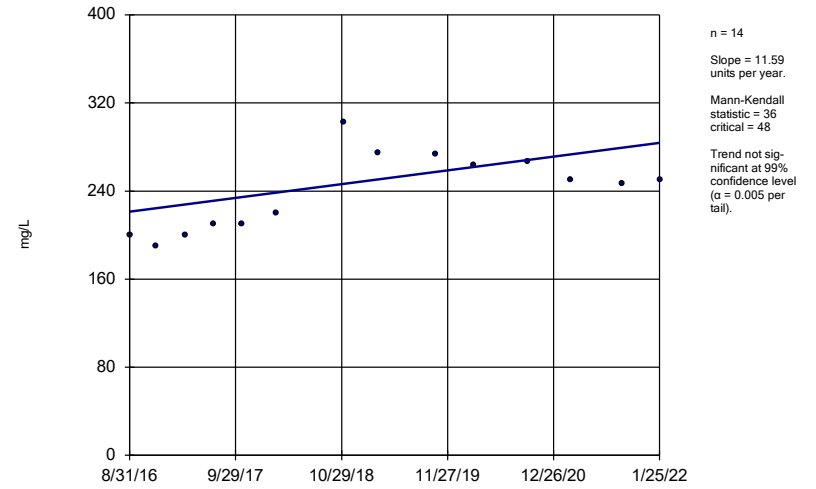
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-10



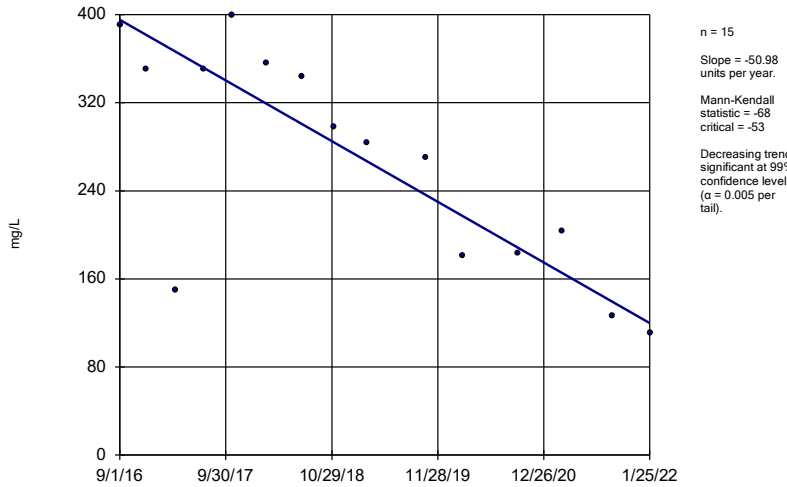
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-11



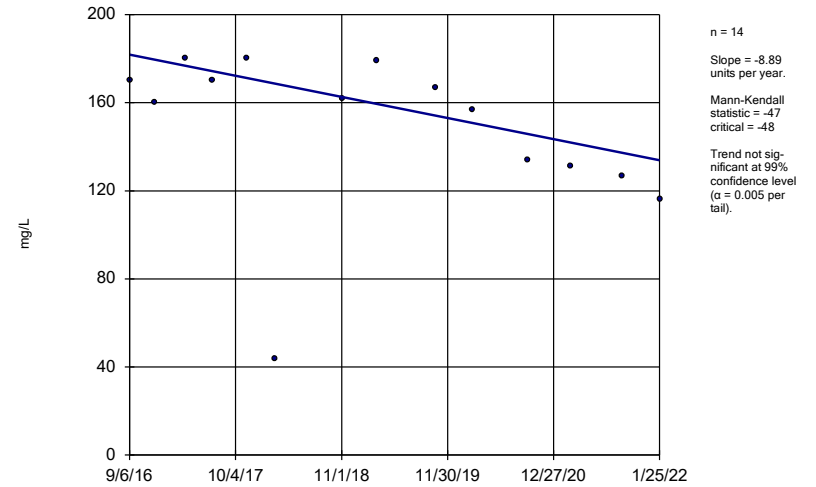
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-12



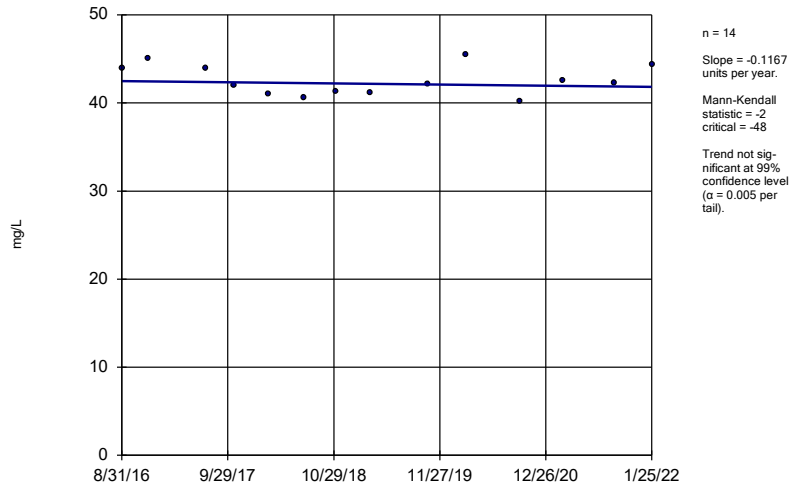
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-13



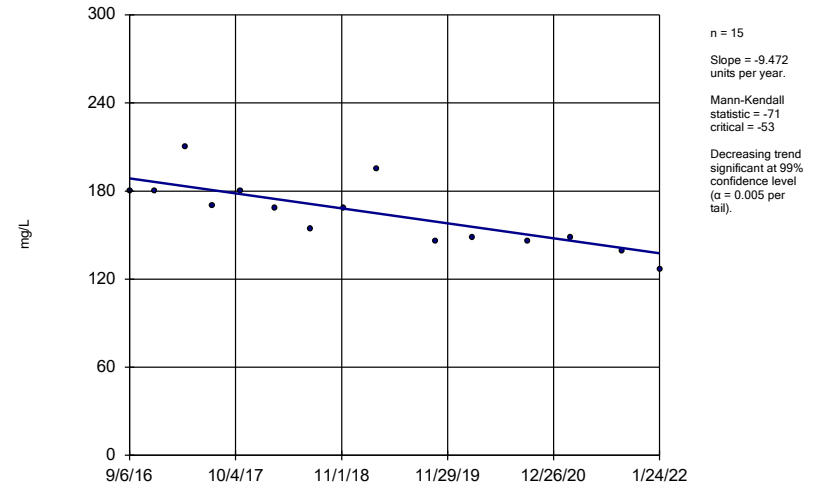
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-14



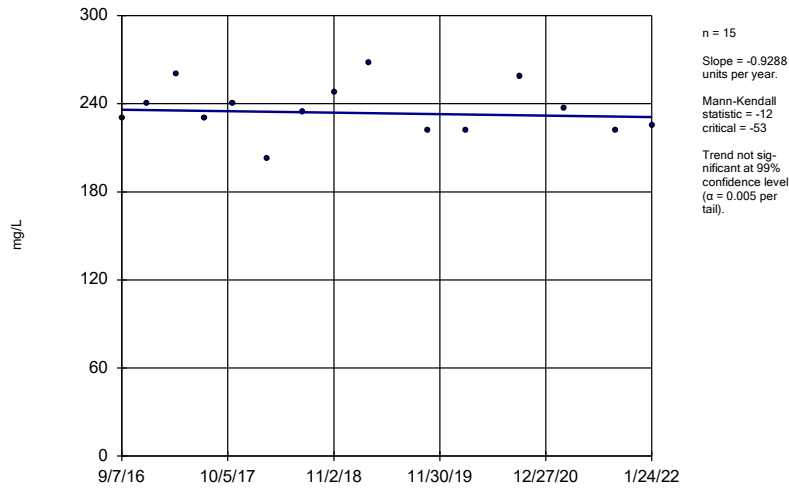
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-15



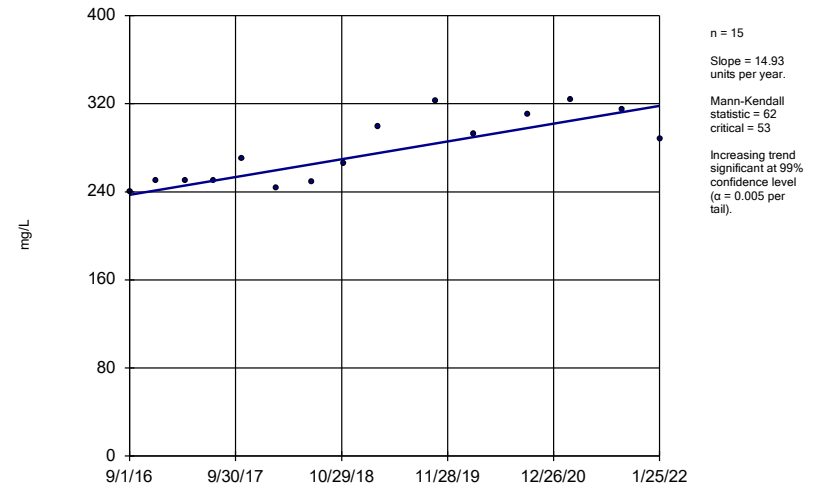
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-17



Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:10 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

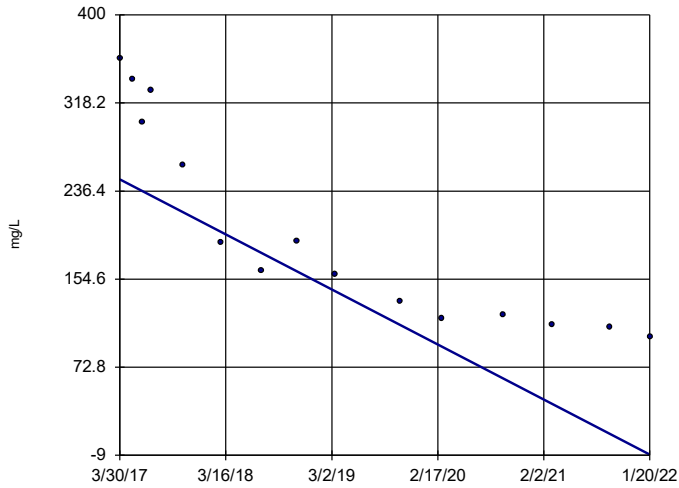
Sen's Slope Estimator  
DGWC-19



Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-2

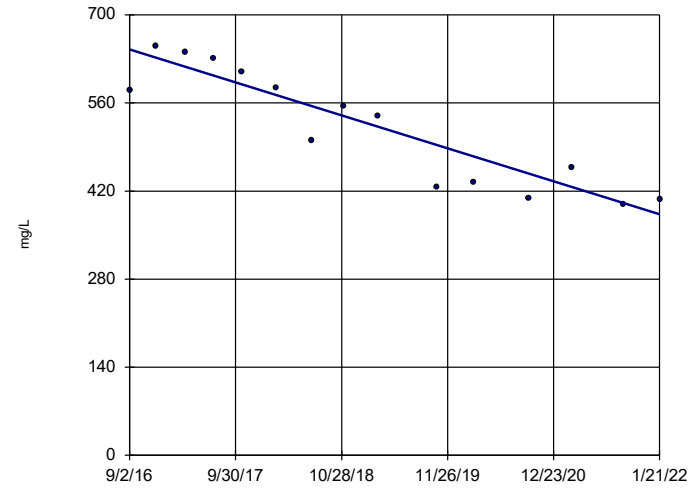


n = 15  
 Slope = -53.07  
 units per year.  
 Mann-Kendall  
 statistic = -97  
 critical = -53  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-20

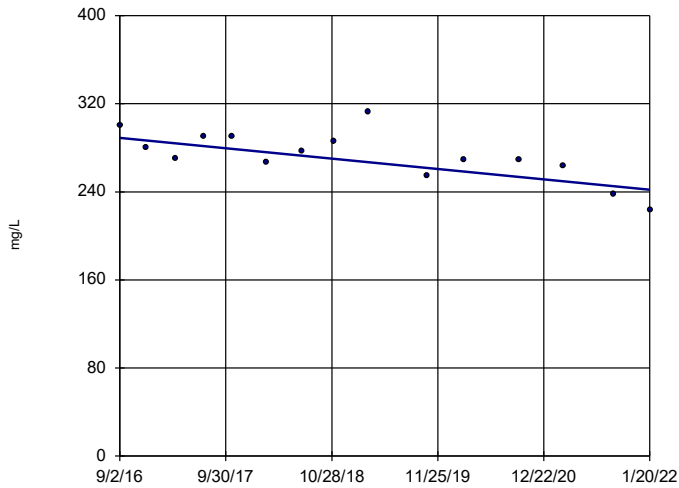


n = 15  
 Slope = -48.56  
 units per year.  
 Mann-Kendall  
 statistic = -81  
 critical = -53  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-21

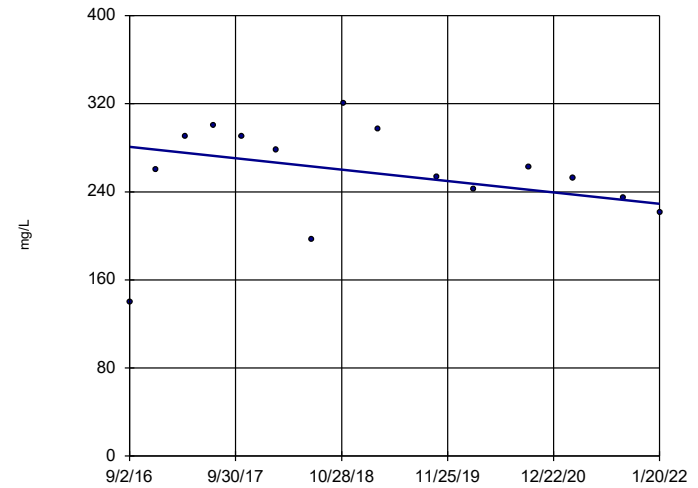


n = 15  
 Slope = -8.732  
 units per year.  
 Mann-Kendall  
 statistic = -57  
 critical = -53  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

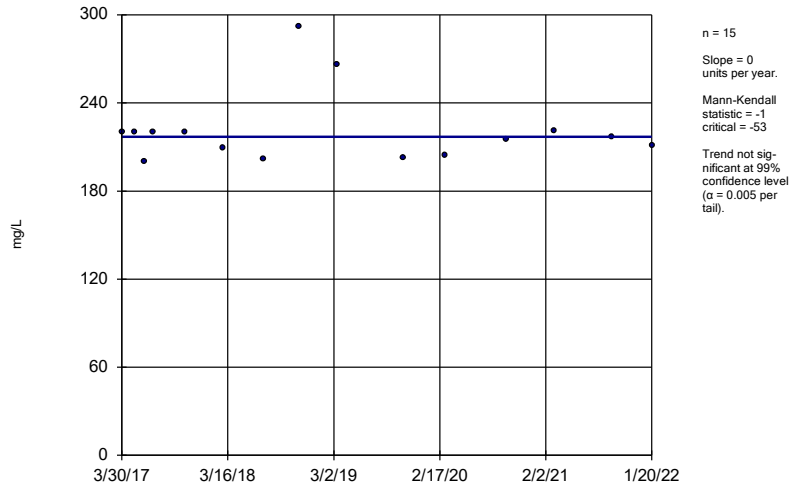
DGWC-22



n = 15  
 Slope = -9.596  
 units per year.  
 Mann-Kendall  
 statistic = -24  
 critical = -53  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

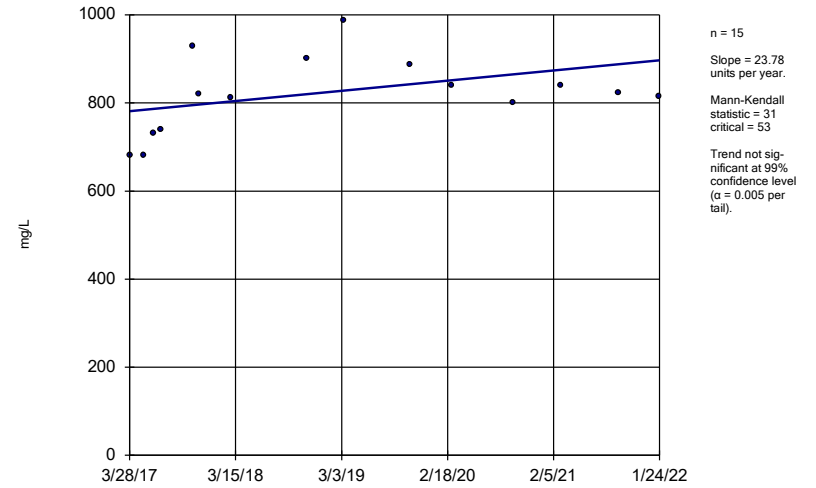
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-23



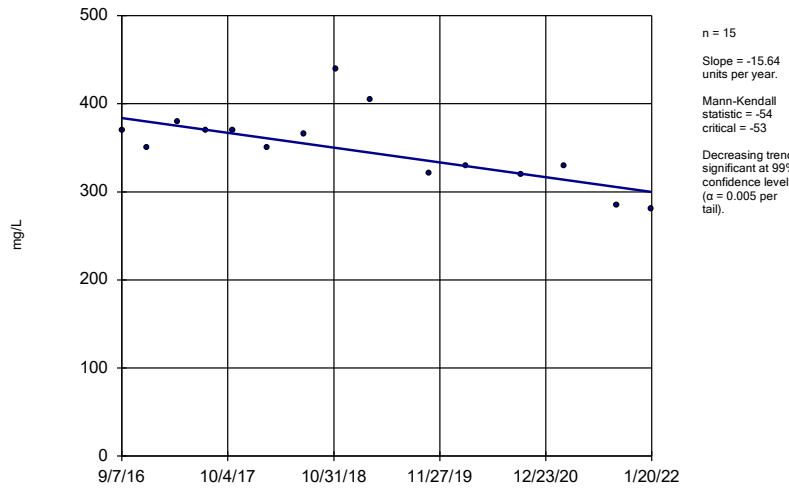
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-4



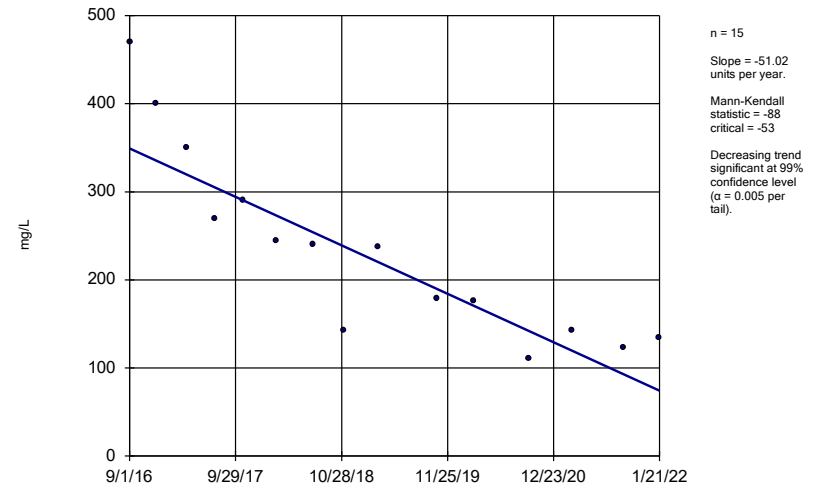
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-42



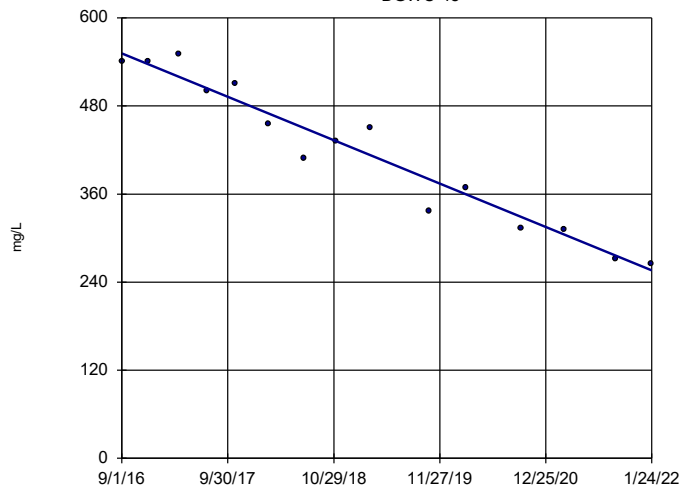
Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-47



Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

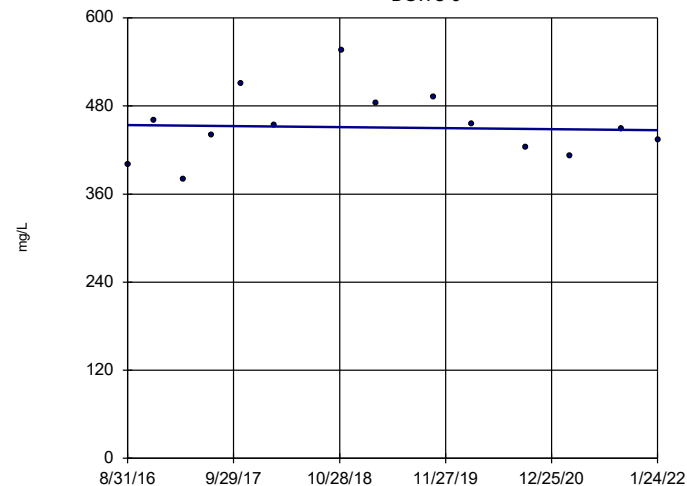
### Sen's Slope Estimator DGWC-48



n = 15  
Slope = -54.75  
units per year.  
Mann-Kendall  
statistic = -90  
critical = -53  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

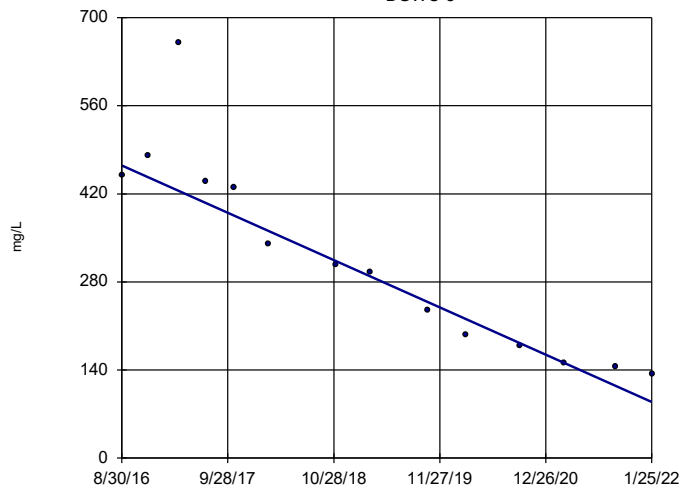
### Sen's Slope Estimator DGWC-5



n = 14  
Slope = -1.321  
units per year.  
Mann-Kendall  
statistic = -3  
critical = -48  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

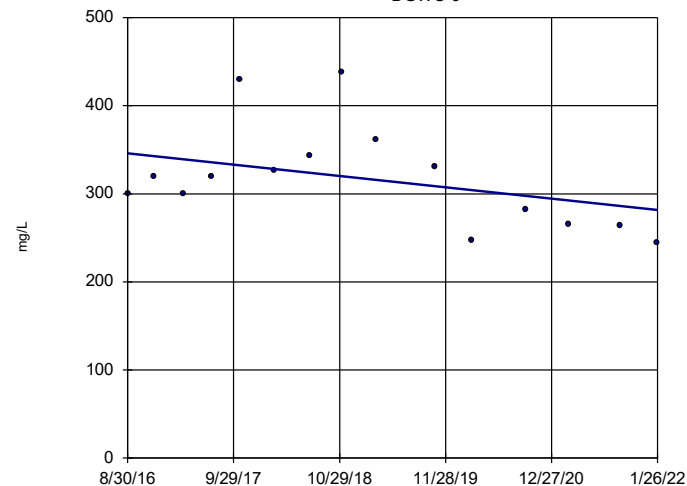
### Sen's Slope Estimator DGWC-8



n = 14  
Slope = -69.52  
units per year.  
Mann-Kendall  
statistic = -85  
critical = -48  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-9

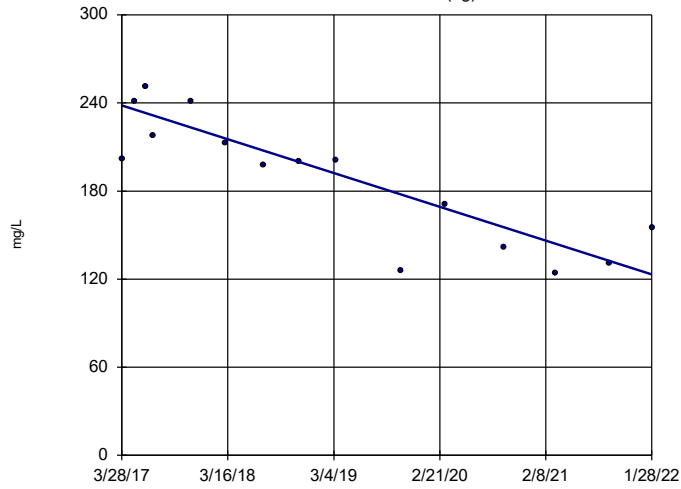


n = 15  
Slope = -11.86  
units per year.  
Mann-Kendall  
statistic = -29  
critical = -53  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate as SO4 Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-53 (bg)

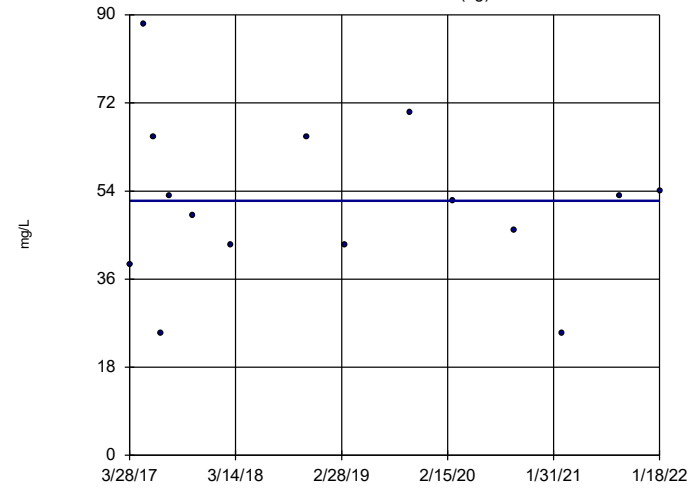


n = 15  
 Slope = -23.75 units per year.  
 Mann-Kendall statistic = -68  
 critical = -53  
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-70A (bg)

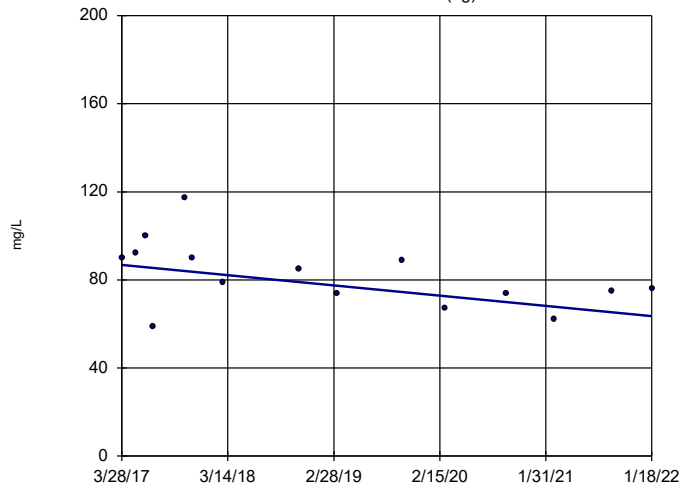


n = 15  
 Slope = 0 units per year.  
 Mann-Kendall statistic = -1  
 critical = -53  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWA-71 (bg)

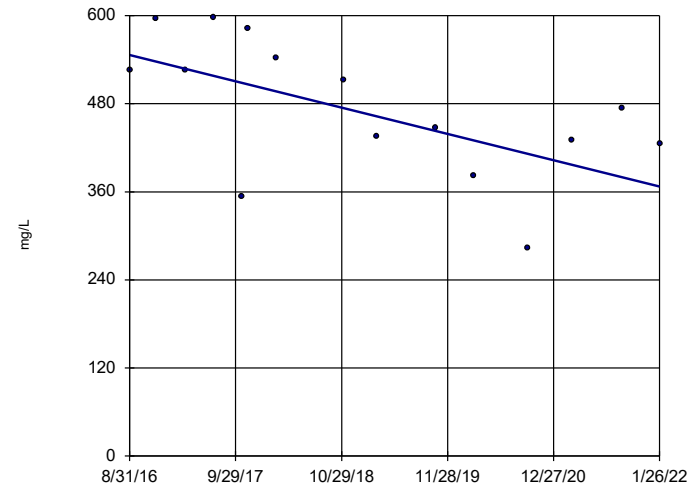


n = 15  
 Slope = -4.828 units per year.  
 Mann-Kendall statistic = -41  
 critical = -53  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-10

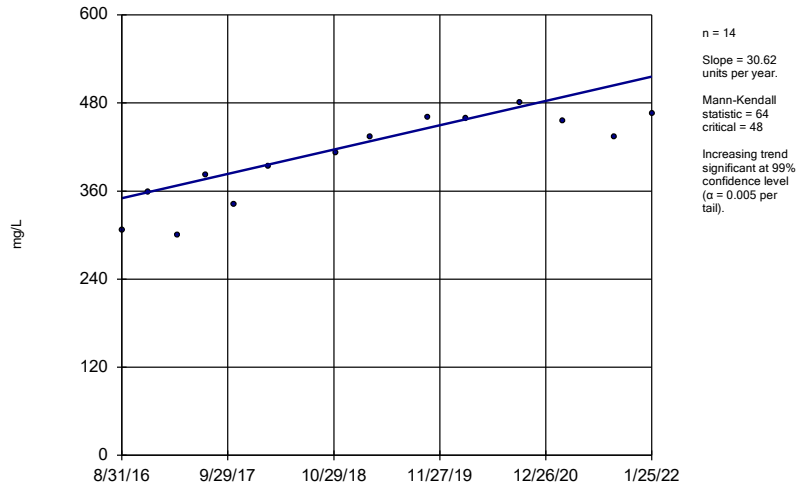


n = 15  
 Slope = -33.06 units per year.  
 Mann-Kendall statistic = -50  
 critical = -53  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre  
 Plant McDonough Client: Southern Company Data: McDonough AP

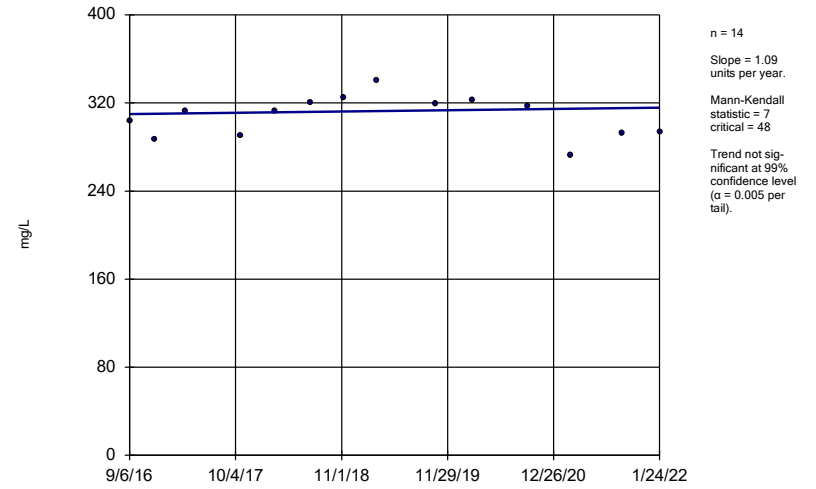


Sen's Slope Estimator  
DGWC-11



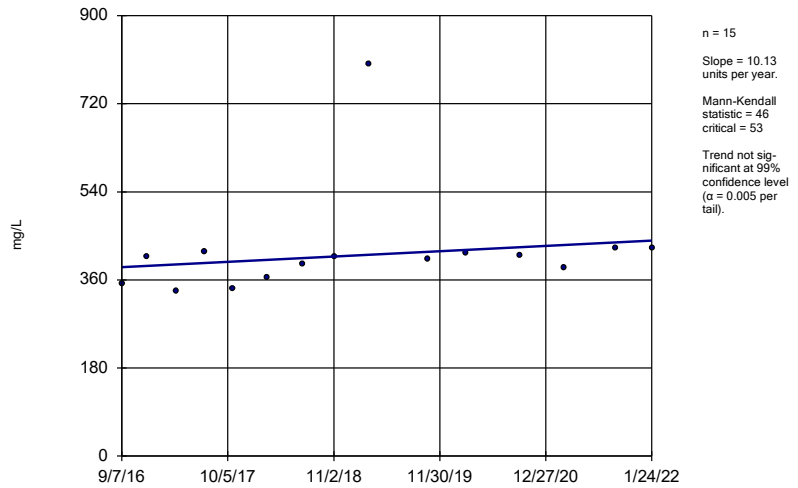
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-15



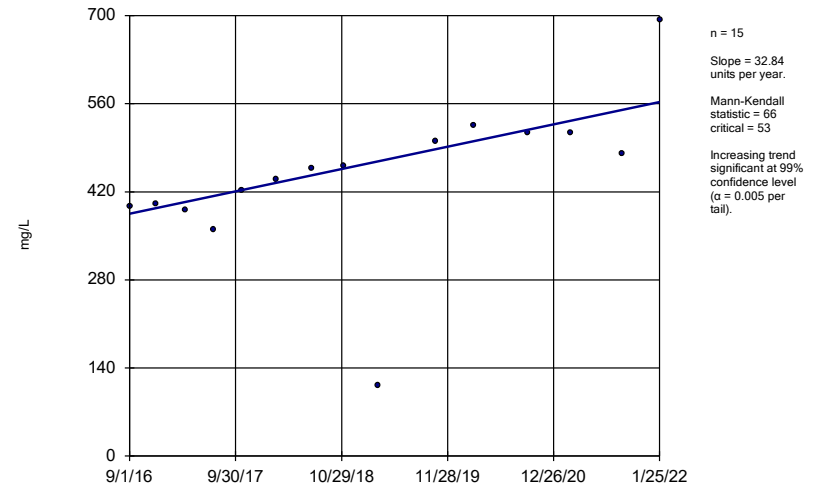
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-17



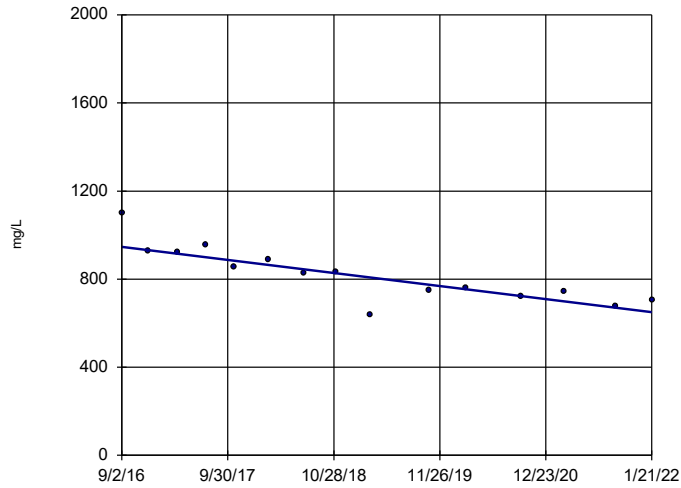
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-19



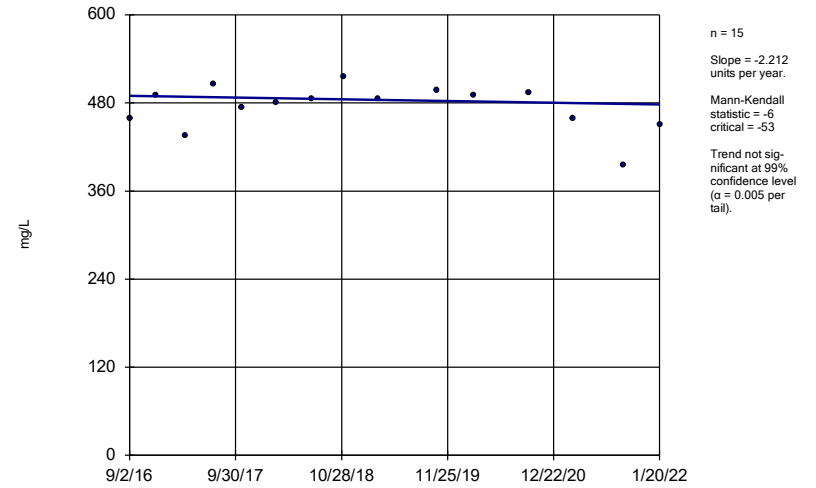
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-20



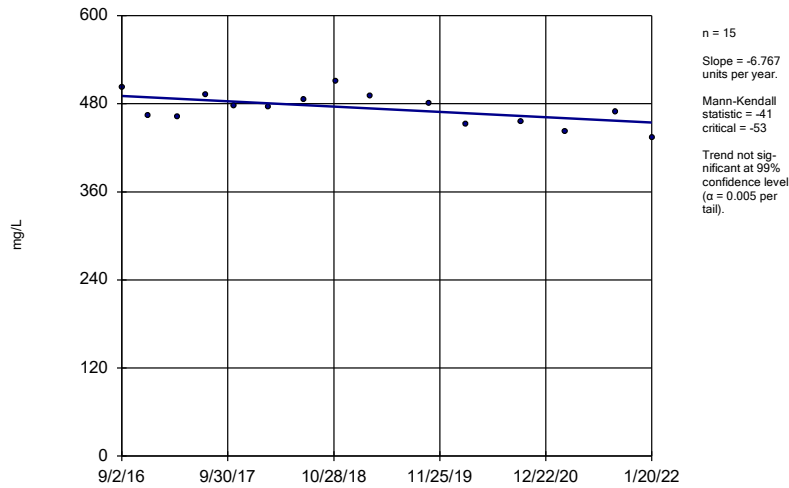
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-21



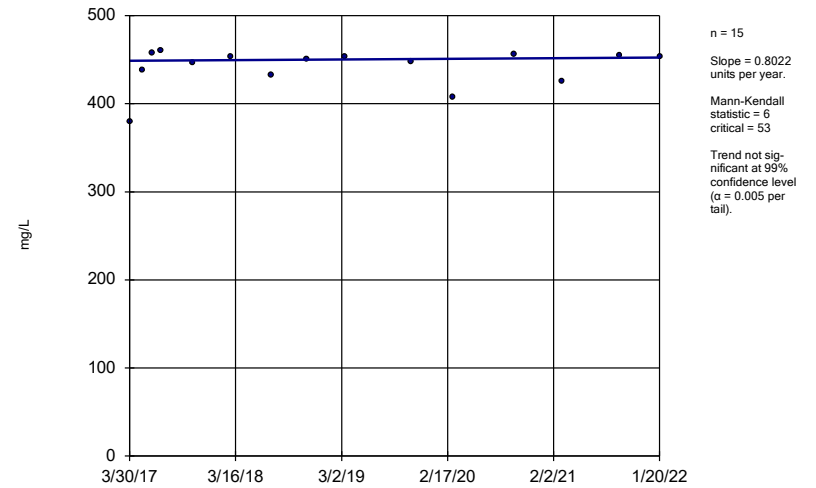
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-22



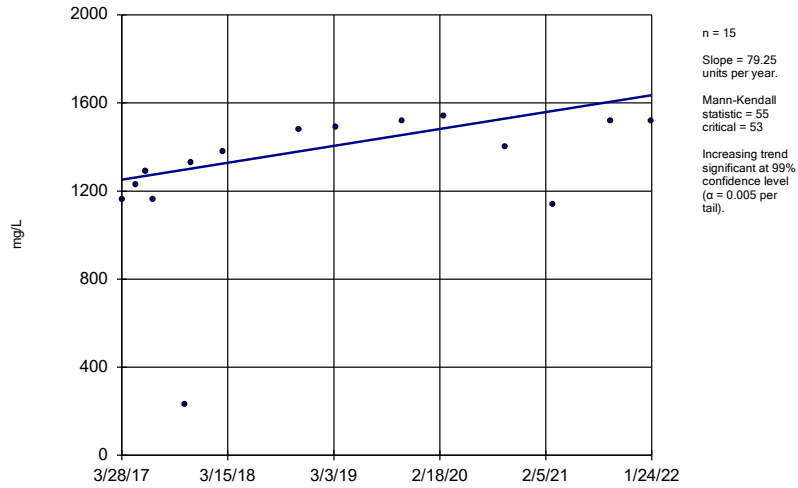
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-23



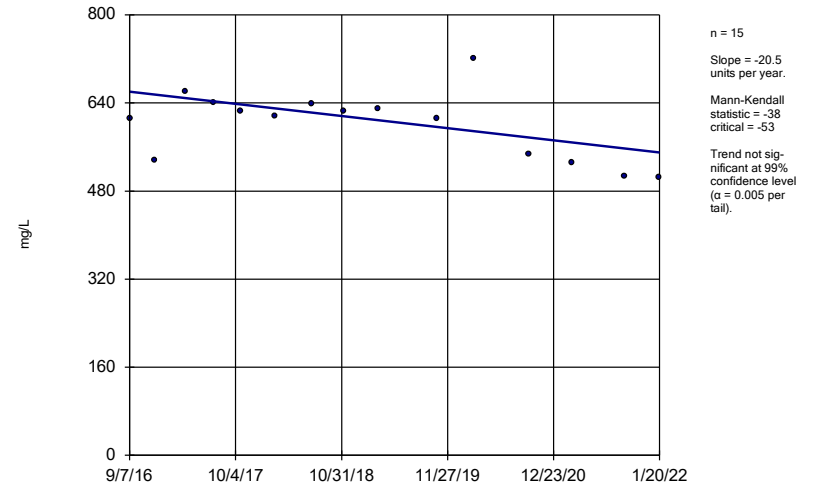
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-4



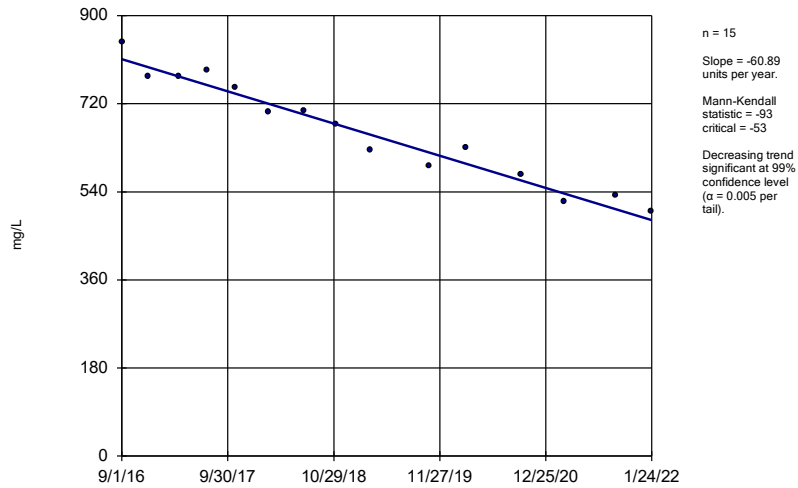
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-42



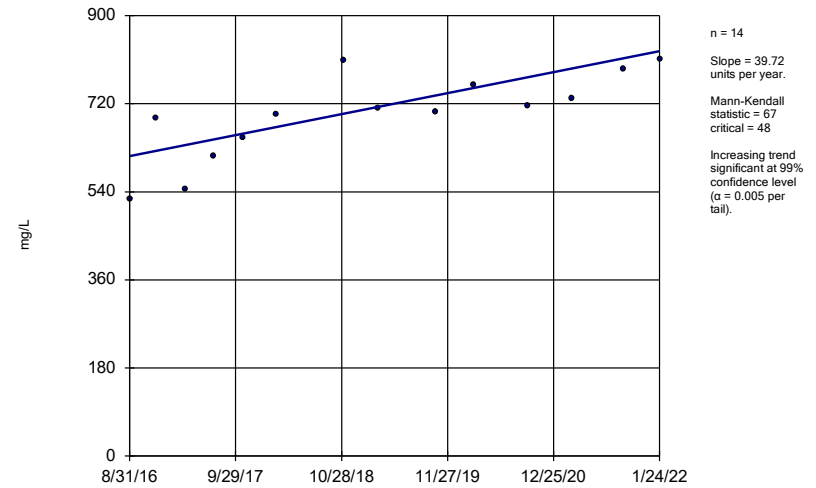
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-48



Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

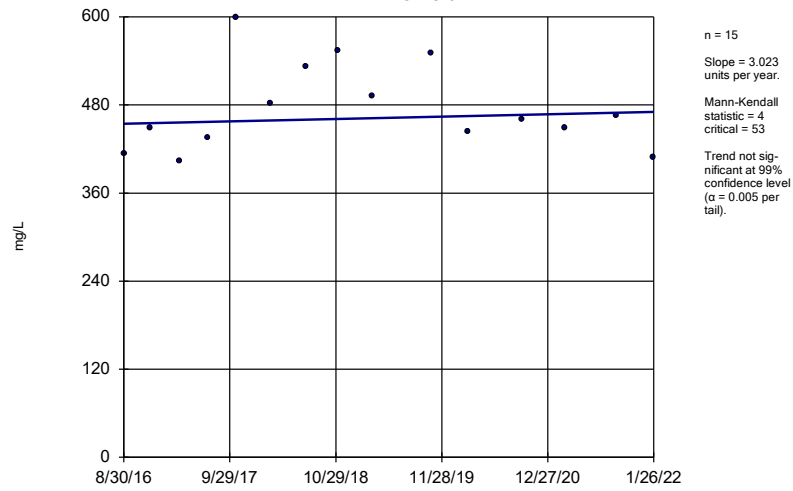
Sen's Slope Estimator  
DGWC-5



Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator

DGWC-9



Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2022 3:11 PM View: AP 234 Appendix III Tre  
Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE F.

# Upper Tolerance Limits Summary Table

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 4/13/2022, 4:27 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	n/a	47	n/a	n/a	80.85	n/a	n/a	0.08974	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0054	n/a	n/a	n/a	n/a	47	n/a	n/a	76.6	n/a	n/a	0.08974	NP Inter(NDs)
Barium (mg/L)	n/a	0.19	n/a	n/a	n/a	n/a	47	n/a	n/a	0	n/a	n/a	0.08974	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0009	n/a	n/a	n/a	n/a	48	n/a	n/a	60.42	n/a	n/a	0.08526	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	47	n/a	n/a	93.62	n/a	n/a	0.08974	NP Inter(NDs)
Chromium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	46	n/a	n/a	63.04	n/a	n/a	0.09447	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0322	n/a	n/a	n/a	n/a	47	n/a	n/a	38.3	n/a	n/a	0.08974	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	4.983	n/a	n/a	n/a	n/a	49	1.109	0.5427	0	None	sqrt(x)	0.05	Inter
Fluoride, total (mg/L)	n/a	0.42	n/a	n/a	n/a	n/a	51	n/a	n/a	52.94	n/a	n/a	0.0731	NP Inter(NDs)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	47	n/a	n/a	80.85	n/a	n/a	0.08974	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a	47	n/a	n/a	36.17	n/a	n/a	0.08974	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	47	n/a	n/a	85.11	n/a	n/a	0.08974	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.0409	n/a	n/a	n/a	n/a	47	n/a	n/a	63.83	n/a	n/a	0.08974	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	47	n/a	n/a	100	n/a	n/a	0.08974	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	47	n/a	n/a	95.74	n/a	n/a	0.08974	NP Inter(NDs)

FIGURE G.

<b>PLANT MCDONOUGH ASH POND 2, 3, 4 GWPS TABLE</b>				
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>GWPS</b>
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		4.98	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 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DGWC-9	0.02913	0.01664	0.01	Yes	16	0.02289	0.009597	6.25	None	No	0.01	Param.
Beryllium (mg/L)	B-92	0.02525	0.01025	0.004	Yes	4	0.01775	0.003304	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.01753	0.01058	0.004	Yes	6	0.01432	0.003763	0	None	x^4	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.009206	0.005901	0.004	Yes	15	0.007553	0.002439	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01262	0.009092	0.004	Yes	16	0.01086	0.002711	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.009115	0.00746	0.004	Yes	16	0.008288	0.001272	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008667	0.006346	0.004	Yes	15	0.007507	0.001712	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-9	0.00586	0.004965	0.004	Yes	16	0.005413	0.0006879	0	None	No	0.01	Param.
Cobalt (mg/L)	B-104D	0.19	0.1	0.032	Yes	5	0.15	0.04637	0	None	No	0.031	NP (selected)
Cobalt (mg/L)	B-56	0.05424	0.03896	0.032	Yes	5	0.0466	0.004561	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.05187	0.03613	0.032	Yes	6	0.044	0.005727	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.06769	0.06065	0.032	Yes	6	0.06417	0.002563	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.2	0.086	0.032	Yes	15	0.1501	0.04897	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-19	0.05338	0.04952	0.032	Yes	16	0.05145	0.002973	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.6741	0.4755	0.032	Yes	16	0.5821	0.1636	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3773	0.2515	0.032	Yes	16	0.3144	0.09666	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.4998	0.3952	0.032	Yes	16	0.4475	0.08036	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-8	0.08457	0.04108	0.032	Yes	15	0.06283	0.03209	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-9	0.2031	0.1476	0.032	Yes	16	0.1754	0.04258	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)	DGWC-47	0.07348	0.05756	0.04	Yes	16	0.06552	0.01223	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.1258	0.1063	0.04	Yes	16	0.1161	0.015	0	None	No	0.01	Param.

# Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	B-100	0.003	0.0013	0.006	No	5	0.0024	0.0008337	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-101D	0.0019	0.00039	0.006	No	4	0.001028	0.0006355	0	None	No	0.0625	NP (selected)
Antimony (mg/L)	B-102D	0.003	0.0016	0.006	No	5	0.00272	0.0006261	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-104D	0.001115	0.0004656	0.006	No	5	0.001208	0.001019	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Antimony (mg/L)	B-106D	0.003	0.00048	0.006	No	4	0.00237	0.00126	75	Kaplan-Meier	No	0.0625	NP (NDs)
Antimony (mg/L)	B-109D	0.004	0.00042	0.006	No	4	0.00169	0.001603	25	None	No	0.0625	NP (selected)
Antimony (mg/L)	B-111D	0.003	0.0006	0.006	No	5	0.00252	0.001073	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-56	0.003	0.0011	0.006	No	5	0.00262	0.0008497	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.00046	0.006	No	8	0.002683	0.000898	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.00066	0.006	No	5	0.002532	0.001046	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00036	0.006	No	7	0.001917	0.001353	57.14	None	No	0.008	NP (NDs)
Antimony (mg/L)	B-93	0.003	0.0014	0.006	No	5	0.00268	0.0007155	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	DGWC-10	0.003	0.0021	0.006	No	15	0.00294	0.0002324	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	17	0.002841	0.0006548	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	16	0.002881	0.000475	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	16	0.002691	0.0008468	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	16	0.002841	0.0006375	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.00036	0.006	No	16	0.002835	0.00066	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	16	0.00285	0.0006	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	16	0.002894	0.000425	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	16	0.002856	0.000575	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No	15	0.002525	0.0009859	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No	16	0.002888	0.00045	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	16	0.002762	0.0006998	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	15	0.002721	0.0007685	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.00046	0.006	No	15	0.002831	0.0006558	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-101D	0.005	0.0017	0.01	No	4	0.004175	0.00165	75	None	No	0.0625	NP (NDs)
Arsenic (mg/L)	B-104D	0.003739	0.001527	0.01	No	5	0.00358	0.001417	40	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-109D	0.005	0.0026	0.01	No	4	0.0044	0.0012	75	None	No	0.0625	NP (NDs)
Arsenic (mg/L)	B-111D	0.002994	0.001984	0.01	No	5	0.00348	0.001413	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Arsenic (mg/L)	B-56	0.0047	0.003	0.01	No	5	0.0037	0.0008276	0	None	No	0.031	NP (normality)
Arsenic (mg/L)	B-62	0.005	0.0033	0.01	No	8	0.004787	0.000601	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	B-63	0.005	0.0022	0.01	No	5	0.00444	0.001252	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	B-77	0.002995	0.00198	0.01	No	7	0.0032	0.00129	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	B-82	0.005	0.003	0.01	No	7	0.004714	0.0007559	85.71	None	No	0.008	NP (NDs)
Arsenic (mg/L)	B-83	0.005	0.0014	0.01	No	6	0.0044	0.00147	83.33	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	B-93	0.002958	0.001042	0.01	No	5	0.0032	0.001716	40	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-10	0.006969	0.003657	0.01	No	15	0.005313	0.002444	6.667	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	17	0.004484	0.001456	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	16	0.004712	0.001152	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	16	0.004221	0.00168	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0008	0.01	No	16	0.003271	0.002034	56.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.001941	0.000939	0.01	No	16	0.002259	0.001516	18.75	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No	16	0.004424	0.001273	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01654	0.007987	0.01	No	16	0.01226	0.006572	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No	16	0.00475	0.001	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0008	0.01	No	15	0.00386	0.001961	73.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	16	0.004487	0.001402	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.002781	0.001442	0.01	No	16	0.002687	0.001474	18.75	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.0008	0.01	No	16	0.003318	0.001988	56.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.00948	0.002765	0.01	No	15	0.008007	0.009756	13.33	None	ln(x)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.005	0.0012	0.01	No	15	0.003777	0.001805	66.67	None	No	0.01	NP (NDs)
<b>Arsenic (mg/L)</b>	<b>DGWC-9</b>	<b>0.02913</b>	<b>0.01664</b>	<b>0.01</b>	<b>Yes</b>	<b>16</b>	<b>0.02289</b>	<b>0.009597</b>	<b>6.25</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Barium (mg/L)	B-100	0.02464	0.01515	2	No	5	0.0206	0.003209	0	None	x^3	0.01	Param.
Barium (mg/L)	B-101D	0.08756	0.05325	2	No	4	0.0695	0.00755	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	B-102D	0.02437	0.01963	2	No	5	0.022	0.001414	0	None	No	0.01	Param.
Barium (mg/L)	B-104D	0.02643	0.01917	2	No	5	0.0228	0.002168	0	None	No	0.01	Param.

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Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	B-106D	0.02292	0.01858	2	No	4	0.02075	0.0009574	0	None	No	0.01	Param.
Barium (mg/L)	B-107D	0.1549	0.05958	2	No	4	0.1073	0.021	0	None	No	0.01	Param.
Barium (mg/L)	B-108D	0.06986	0.05114	2	No	4	0.0605	0.004123	0	None	No	0.01	Param.
Barium (mg/L)	B-109D	0.08497	0.007526	2	No	4	0.04625	0.01706	0	None	No	0.01	Param.
Barium (mg/L)	B-111D	0.04672	0.02248	2	No	5	0.0346	0.007232	0	None	No	0.01	Param.
Barium (mg/L)	B-56	0.03135	0.02465	2	No	5	0.028	0.002	0	None	No	0.01	Param.
Barium (mg/L)	B-62	0.02672	0.02003	2	No	8	0.02338	0.003159	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.02917	0.01723	2	No	5	0.0232	0.003564	0	None	No	0.01	Param.
Barium (mg/L)	B-66	0.02113	0.01487	2	No	5	0.018	0.001871	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.1281	0.09357	2	No	7	0.1109	0.01455	0	None	No	0.01	Param.
Barium (mg/L)	B-82	0.03114	0.02086	2	No	6	0.026	0.003742	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.04907	0.02034	2	No	6	0.03383	0.01143	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	B-88	0.0243	0.0153	2	No	5	0.0198	0.002683	0	None	No	0.01	Param.
Barium (mg/L)	B-93	0.02107	0.01413	2	No	5	0.0176	0.002074	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.02917	0.02293	2	No	15	0.02605	0.004606	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06572	0.05513	2	No	15	0.06043	0.007817	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03386	0.02441	2	No	17	0.02975	0.008686	0	None	ln(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03263	0.02737	2	No	15	0.02901	0.007107	6.667	None	x^3	0.01	Param.
Barium (mg/L)	DGWC-14	0.06275	0.0582	2	No	16	0.06048	0.003503	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.05027	0.04394	2	No	16	0.04711	0.004864	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.0553	0.04047	2	No	16	0.04789	0.01139	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02548	0.02201	2	No	16	0.02374	0.002664	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02263	0.02137	2	No	16	0.022	0.0009661	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01565	0.009614	2	No	16	0.01263	0.004637	6.25	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.0272	0.024	2	No	16	0.02584	0.001534	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03732	0.03162	2	No	16	0.03447	0.004386	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.02371	0.01873	2	No	16	0.02131	0.004018	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03608	0.0324	2	No	15	0.03424	0.002708	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.02019	0.01598	2	No	16	0.01809	0.003235	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-47	0.01957	0.01604	2	No	16	0.01781	0.002708	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.0155	0.013	2	No	16	0.01369	0.0009849	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-5	0.01831	0.0166	2	No	14	0.01746	0.001208	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03722	0.02572	2	No	15	0.03147	0.008488	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-9	0.01621	0.01491	2	No	16	0.01556	0.001002	0	None	No	0.01	Param.
Beryllium (mg/L)	B-100	0.0005873	0.0003207	0.004	No	5	0.000454	0.00007956	0	None	No	0.01	Param.
Beryllium (mg/L)	B-101D	0.00009478	0.00003472	0.004	No	4	0.00006475	0.00001323	0	None	No	0.01	Param.
Beryllium (mg/L)	B-102D	0.001438	0.001002	0.004	No	5	0.00122	0.0001304	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.00162	0.00102	0.004	No	5	0.00132	0.0001789	0	None	No	0.01	Param.
Beryllium (mg/L)	B-106D	0.0001442	0.0001008	0.004	No	4	0.0001225	0.000009574	0	None	No	0.01	Param.
Beryllium (mg/L)	B-107D	0.0005	0.00005	0.004	No	4	0.0003875	0.000225	75	None	No	0.0625	NP (NDs)
Beryllium (mg/L)	B-109D	0.0005	0.000059	0.004	No	4	0.0001773	0.0002153	25	None	No	0.0625	NP (normality)
Beryllium (mg/L)	B-56	0.001318	0.001082	0.004	No	5	0.0012	0.00007071	0	None	No	0.01	Param.
Beryllium (mg/L)	B-62	0.0005	0.000078	0.004	No	9	0.000202	0.0001705	22.22	None	No	0.002	NP (normality)
Beryllium (mg/L)	B-63	0.0004902	0.0003098	0.004	No	7	0.0004	0.00007594	14.29	None	No	0.01	Param.
Beryllium (mg/L)	B-77	0.0005	0.000053	0.004	No	7	0.0002657	0.0002212	42.86	None	No	0.008	NP (normality)
Beryllium (mg/L)	B-82	0.002008	0.001092	0.004	No	6	0.00155	0.0003332	0	None	No	0.01	Param.
Beryllium (mg/L)	B-83	0.0006048	0.0002408	0.004	No	6	0.0004017	0.0001548	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	B-88	0.005069	0.0001483	0.004	No	5	0.001986	0.00175	0	None	sqrt(x)	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>B-92</b>	<b>0.02525</b>	<b>0.01025</b>	<b>0.004</b>	<b>Yes</b>	<b>4</b>	<b>0.01775</b>	<b>0.003304</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Beryllium (mg/L)</b>	<b>B-93</b>	<b>0.01753</b>	<b>0.01058</b>	<b>0.004</b>	<b>Yes</b>	<b>6</b>	<b>0.01432</b>	<b>0.003763</b>	<b>0</b>	<b>None</b>	<b>x^4</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	B-97	0.002084	0.0003761	0.004	No	5	0.00152	0.0005848	20	Kaplan-Meier	x^2	0.01	Param.
Beryllium (mg/L)	B-98	0.00087	0.000068	0.004	No	5	0.0004876	0.0002841	60	Kaplan-Meier	No	0.031	NP (NDs)
<b>Beryllium (mg/L)</b>	<b>DGWC-10</b>	<b>0.009206</b>	<b>0.005901</b>	<b>0.004</b>	<b>Yes</b>	<b>15</b>	<b>0.007553</b>	<b>0.002439</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	DGWC-11	0.0005	0.00013	0.004	No	15	0.000476	0.0007205	46.67	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00049	0.00016	0.004	No	17	0.0004005	0.0006832	17.65	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No	15	0.0004967	0.0007238	60	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	16	0.0006111	0.0006494	87.5	None	No	0.01	NP (NDs)

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	DGWC-17	0.0006166	0.0005309	0.004	No	16	0.0005738	0.00006592	12.5	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-19	0.0021	0.0017	0.004	No	16	0.001906	0.0004809	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-20	0.005282	0.00248	0.004	No	16	0.003881	0.002153	12.5	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0002	0.00015	0.004	No	16	0.0003625	0.0007092	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.0002	0.00014	0.004	No	16	0.0003613	0.0007093	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	16	0.0006081	0.0006451	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00033	0.00019	0.004	No	15	0.0004213	0.0007196	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.0027	0.002043	0.004	No	16	0.002313	0.0006407	6.25	None	x^2	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>DGWC-47</b>	<b>0.01262</b>	<b>0.009092</b>	<b>0.004</b>	<b>Yes</b>	<b>16</b>	<b>0.01086</b>	<b>0.002711</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Beryllium (mg/L)</b>	<b>DGWC-48</b>	<b>0.009115</b>	<b>0.00746</b>	<b>0.004</b>	<b>Yes</b>	<b>16</b>	<b>0.008288</b>	<b>0.001272</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Beryllium (mg/L)</b>	<b>DGWC-5</b>	<b>0.008667</b>	<b>0.006346</b>	<b>0.004</b>	<b>Yes</b>	<b>15</b>	<b>0.007507</b>	<b>0.001712</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Beryllium (mg/L)	DGWC-8	0.002987	0.001628	0.004	No	15	0.00236	0.00108	6.667	None	sqrt(x)	0.01	Param.
<b>Beryllium (mg/L)</b>	<b>DGWC-9</b>	<b>0.00586</b>	<b>0.004965</b>	<b>0.004</b>	<b>Yes</b>	<b>16</b>	<b>0.005413</b>	<b>0.0006879</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cadmium (mg/L)	B-100	0.00059	0.00027	0.005	No	5	0.000402	0.0001718	0	None	No	0.031	NP (normality)
Cadmium (mg/L)	B-101D	0.0005	0.00011	0.005	No	4	0.0004025	0.000195	75	None	No	0.0625	NP (NDs)
Cadmium (mg/L)	B-102D	0.0009489	0.0006591	0.005	No	5	0.000804	0.00008649	0	None	No	0.01	Param.
Cadmium (mg/L)	B-106D	0.0003088	0.00007618	0.005	No	4	0.0001925	0.00005123	0	None	No	0.01	Param.
Cadmium (mg/L)	B-56	0.0002987	0.0002293	0.005	No	5	0.000264	0.00002074	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0005	0.00014	0.005	No	5	0.000378	0.0001715	60	None	No	0.031	NP (NDs)
Cadmium (mg/L)	B-82	0.0007813	0.0003687	0.005	No	6	0.000575	0.0001502	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0004012	0.0002521	0.005	No	6	0.0003267	0.00005428	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.0065	0.00022	0.005	No	5	0.002684	0.002458	0	None	No	0.031	NP (selected)
Cadmium (mg/L)	B-93	0.0008797	0.0006923	0.005	No	5	0.000786	0.00005595	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001179	0.0007973	0.005	No	15	0.000988	0.0002814	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00016	0.005	No	15	0.0004047	0.0001639	73.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003402	0.0002276	0.005	No	17	0.0004006	0.0001874	29.41	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	15	0.000452	0.0001287	86.67	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00012	0.005	No	16	0.0004331	0.0002304	75	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.00033	0.00023	0.005	No	16	0.0002969	0.00008784	12.5	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.00041	0.00034	0.005	No	16	0.00042	0.0001609	12.5	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-2	0.000281	0.0001339	0.005	No	16	0.000375	0.0002281	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-20	0.002305	0.001758	0.005	No	16	0.002031	0.0004207	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.000639	0.0003517	0.005	No	16	0.0005981	0.0001973	18.75	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0006895	0.0004592	0.005	No	16	0.0005744	0.000177	12.5	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0003	0.00018	0.005	No	16	0.0002856	0.0002091	12.5	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.000847	0.0006264	0.005	No	15	0.0007367	0.0001628	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.001058	0.0004581	0.005	No	16	0.0007956	0.0005496	12.5	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.00216	0.00129	0.005	No	16	0.001725	0.0006678	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.0042	0.0028	0.005	No	16	0.003488	0.001632	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-5	0.0008318	0.0004655	0.005	No	15	0.0006487	0.0002703	13.33	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002476	0.001924	0.005	No	15	0.0022	0.0004071	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006618	0.0005096	0.005	No	16	0.0005925	0.0001326	12.5	None	ln(x)	0.01	Param.
Chromium (mg/L)	B-100	0.005	0.00057	0.1	No	5	0.003302	0.002329	60	None	No	0.031	NP (NDs)
Chromium (mg/L)	B-101D	0.005	0.0014	0.1	No	4	0.0041	0.0018	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	B-104D	0.005	0.0011	0.1	No	5	0.00422	0.001744	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	B-109D	0.005	0.00061	0.1	No	4	0.003902	0.002195	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	B-56	0.001524	0.0003348	0.1	No	5	0.002678	0.002145	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	B-62	0.005	0.00098	0.1	No	8	0.004497	0.001421	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.00064	0.1	No	5	0.004128	0.00195	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	B-77	0.005	0.00068	0.1	No	7	0.00278	0.00213	42.86	None	No	0.008	NP (normality)
Chromium (mg/L)	B-82	0.005	0.0011	0.1	No	6	0.00435	0.001592	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	B-83	0.005747	0.001953	0.1	No	6	0.00385	0.001381	0	None	No	0.01	Param.
Chromium (mg/L)	B-88	0.00197	0.0007556	0.1	No	5	0.00279	0.00204	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	B-93	0.001195	0.0004647	0.1	No	5	0.002466	0.002322	40	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	DGWC-10	0.005	0.00078	0.1	No	15	0.00224	0.002024	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.0006	0.1	No	15	0.003826	0.002015	73.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No	17	0.004525	0.00134	88.24	None	No	0.01	NP (NDs)

# Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	DGWC-13	0.005	0.00074	0.1	No	15	0.003859	0.001959	73.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.00058	0.1	No	16	0.004459	0.00232	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0035	0.0025	0.1	No	16	0.003037	0.0008366	12.5	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.0031	0.0024	0.1	No	16	0.003387	0.001958	18.75	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.0005	0.1	No	16	0.003323	0.002237	62.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.005	0.0016	0.1	No	16	0.003381	0.002329	37.5	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-21	0.005	0.0005	0.1	No	16	0.003434	0.002117	62.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	16	0.004762	0.00095	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0005	0.1	No	16	0.002363	0.002124	37.5	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	15	0.0047	0.001162	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.0005	0.1	No	16	0.003202	0.002139	56.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	16	0.004731	0.001075	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	16	0.004444	0.001521	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	15	0.004697	0.001175	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.005	0.00086	0.1	No	15	0.003498	0.001973	60	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.0057	0.00059	0.1	No	16	0.003549	0.002106	56.25	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.087	0.029	0.032	No	7	0.05457	0.02716	0	None	No	0.008	NP (normality)
Cobalt (mg/L)	B-101D	0.003913	0.001837	0.032	No	4	0.002875	0.0004573	0	None	No	0.01	Param.
Cobalt (mg/L)	B-102D	0.01518	0.01282	0.032	No	5	0.014	0.0007071	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>B-104D</b>	<b>0.19</b>	<b>0.1</b>	<b>0.032</b>	<b>Yes</b>	<b>5</b>	<b>0.15</b>	<b>0.04637</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.031</b>	<b>NP (selected)</b>
Cobalt (mg/L)	B-106D	0.001021	0.0004466	0.032	No	4	0.001157	0.0009039	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-107D	0.002061	0.0002441	0.032	No	4	0.001153	0.0004001	0	None	No	0.01	Param.
Cobalt (mg/L)	B-108D	0.0048	0.00061	0.032	No	4	0.002203	0.001806	0	None	No	0.0625	NP (selected)
Cobalt (mg/L)	B-111D	0.0008753	0.0003847	0.032	No	5	0.000978	0.0008622	20	Kaplan-Meier	ln(x)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>B-56</b>	<b>0.05424</b>	<b>0.03896</b>	<b>0.032</b>	<b>Yes</b>	<b>5</b>	<b>0.0466</b>	<b>0.004561</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-62	0.0025	0.0003	0.032	No	8	0.001951	0.001016	75	None	No	0.004	NP (NDs)
<b>Cobalt (mg/L)</b>	<b>B-63</b>	<b>0.05187</b>	<b>0.03613</b>	<b>0.032</b>	<b>Yes</b>	<b>6</b>	<b>0.044</b>	<b>0.005727</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-66	0.013	0.004798	0.032	No	6	0.008483	0.003955	16.67	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-77	0.002764	0.0005955	0.032	No	7	0.001914	0.0009245	28.57	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	B-82	0.006994	0.001092	0.032	No	7	0.004043	0.002485	0	None	No	0.01	Param.
Cobalt (mg/L)	B-83	0.02028	0.005788	0.032	No	6	0.01303	0.005274	0	None	No	0.01	Param.
Cobalt (mg/L)	B-88	0.02345	0.0009922	0.032	No	6	0.008367	0.009138	0	None	ln(x)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>B-93</b>	<b>0.06769</b>	<b>0.06065</b>	<b>0.032</b>	<b>Yes</b>	<b>6</b>	<b>0.06417</b>	<b>0.002563</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	B-98	0.0048	0.0025	0.032	No	4	0.003075	0.00115	75	None	No	0.0625	NP (NDs)
<b>Cobalt (mg/L)</b>	<b>DGWC-10</b>	<b>0.2</b>	<b>0.086</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.1501</b>	<b>0.04897</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>NP (normality)</b>
Cobalt (mg/L)	DGWC-11	0.0025	0.0006	0.032	No	15	0.001482	0.0008885	40	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.013	0.0021	0.032	No	17	0.008706	0.009703	11.76	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-13	0.0025	0.0005	0.032	No	15	0.002085	0.0008588	80	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0028	0.0016	0.032	No	16	0.003519	0.00577	6.25	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02676	0.02009	0.032	No	16	0.02287	0.006278	6.25	None	x^2	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-19</b>	<b>0.05338</b>	<b>0.04952</b>	<b>0.032</b>	<b>Yes</b>	<b>16</b>	<b>0.05145</b>	<b>0.002973</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-2	0.0284	0.0055	0.032	No	16	0.01676	0.01166	0	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>DGWC-20</b>	<b>0.6741</b>	<b>0.4755</b>	<b>0.032</b>	<b>Yes</b>	<b>16</b>	<b>0.5821</b>	<b>0.1636</b>	<b>0</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-21	0.009705	0.008358	0.032	No	16	0.008556	0.002085	12.5	None	x^5	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009815	0.007486	0.032	No	16	0.008469	0.002183	12.5	None	x^2	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.0025	0.00039	0.032	No	16	0.001752	0.001348	56.25	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-4	0.0021	0.0015	0.032	No	15	0.002013	0.0008717	13.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.0426	0.01599	0.032	No	16	0.02929	0.02045	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>DGWC-47</b>	<b>0.3773</b>	<b>0.2515</b>	<b>0.032</b>	<b>Yes</b>	<b>16</b>	<b>0.3144</b>	<b>0.09666</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-48</b>	<b>0.4998</b>	<b>0.3952</b>	<b>0.032</b>	<b>Yes</b>	<b>16</b>	<b>0.4475</b>	<b>0.08036</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	DGWC-5	0.04	0.02	0.032	No	15	0.02775	0.01072	0	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>DGWC-8</b>	<b>0.08457</b>	<b>0.04108</b>	<b>0.032</b>	<b>Yes</b>	<b>15</b>	<b>0.06283</b>	<b>0.03209</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-9</b>	<b>0.2031</b>	<b>0.1476</b>	<b>0.032</b>	<b>Yes</b>	<b>16</b>	<b>0.1754</b>	<b>0.04258</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Combined Radium 226 + 228 (pCi/L)	B-100	1.4	0.168	5	No	5	0.782	0.4357	0	None	No	0.031	NP (selected)
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	1.74	0.628	5	No	5	1.002	0.4775	0	None	No	0.031	NP (selected)
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>B-104D</b>	<b>18.51</b>	<b>8.768</b>	<b>5</b>	<b>Yes</b>	<b>5</b>	<b>13.64</b>	<b>2.907</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 4/13/2022, 4:35 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
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.
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>B-109D</b>	<b>18.75</b>	<b>6.021</b>	<b>5</b>	<b>Yes</b>	<b>4</b>	<b>12.39</b>	<b>2.804</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
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	1.951	1.275	5	No	7	1.613	0.2846	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	2.17	0.617	5	No	6	1.416	0.7269	0	None	No	0.0155	NP (selected)
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	1.15	0.0359	5	No	6	0.6532	0.3977	0	None	No	0.0155	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-88	2.84	0.771	5	No	5	1.637	0.9496	0	None	No	0.031	NP (selected)
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-101D	0.1	0.051	4	No	4	0.064	0.02401	25	None	No	0.0625	NP (normality)
Fluoride, total (mg/L)	B-102D	0.1115	0.05295	4	No	5	0.0822	0.01746	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-104D	0.5246	0.2354	4	No	5	0.38	0.08631	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-106D	0.1	0.052	4	No	4	0.06475	0.02354	25	None	No	0.0625	NP (normality)
Fluoride, total (mg/L)	B-109D	0.1993	0.08574	4	No	4	0.1425	0.025	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-111D	0.6099	0.2341	4	No	5	0.422	0.1121	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-56	0.3525	0.06269	4	No	5	0.2076	0.08648	0	None	No	0.01	Param.
Fluoride, total (mg/L)	B-62	0.43	0.093	4	No	7	0.1731	0.1226	0	None	No	0.008	NP (normality)
Fluoride, total (mg/L)	B-63	0.45	0.12	4	No	4	0.2325	0.1486	0	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-66	0.51	0.12	4	No	4	0.2875	0.1656	0	None	No	0.0625	NP (selected)
Fluoride, total (mg/L)	B-77	0.1	0.078	4	No	6	0.09567	0.008802	66.67	None	No	0.0155	NP (NDs)
Fluoride, total (mg/L)	B-82	0.2	0.052	4	No	5	0.1104	0.05423	60	None	No	0.031	NP (NDs)
Fluoride, total (mg/L)	B-83	0.11	0.03719	4	No	6	0.08617	0.02915	33.33	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	B-93	0.4115	0.2725	4	No	5	0.342	0.04147	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-10	1.858	1.374	4	No	17	1.616	0.3859	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-11	0.1	0.052	4	No	16	0.08163	0.02569	62.5	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-12	0.2	0.085	4	No	17	0.1549	0.1411	35.29	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	DGWC-13	0.203	0.0833	4	No	16	0.1511	0.1082	6.25	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-14	0.1	0.06	4	No	17	0.08671	0.02582	70.59	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-15	0.11	0.079	4	No	17	0.1051	0.04225	64.71	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-17	0.219	0.08606	4	No	17	0.1978	0.1524	17.65	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-19	0.4699	0.1718	4	No	17	0.3588	0.3073	5.882	None	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	DGWC-2	0.28	0.053	4	No	17	0.1404	0.1539	41.18	None	No	0.01	NP (normality)

# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	DGWC-20	0.9847	0.4388	4	No	17	0.7118	0.4356	5.882	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-21	0.14	0.079	4	No	17	0.1066	0.06454	64.71	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-22	0.12	0.09	4	No	17	0.1174	0.06341	52.94	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-23	0.2156	0.09287	4	No	17	0.1802	0.1523	11.76	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-4	0.17	0.082	4	No	17	0.1342	0.1722	70.59	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-42	0.1	0.06	4	No	17	0.09294	0.02114	88.24	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	DGWC-47	1.115	0.5252	4	No	17	0.82	0.4704	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-48	1.156	0.6086	4	No	17	0.8824	0.437	0	None	No	0.01	Param.
Fluoride, total (mg/L)	DGWC-5	0.6778	0.2217	4	No	16	0.5431	0.4512	6.25	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-8	0.355	0.09666	4	No	16	0.2751	0.2307	18.75	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	DGWC-9	1.378	0.9813	4	No	17	1.179	0.3162	0	None	No	0.01	Param.
Lead (mg/L)	B-100	0.0002658	0.00007745	0.015	No	5	0.0004956	0.0004626	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	B-101D	0.001	0.000065	0.015	No	4	0.0007663	0.0004675	75	Kaplan-Meier	No	0.0625	NP (NDs)
Lead (mg/L)	B-102D	0.001	0.000037	0.015	No	5	0.0004292	0.0005211	40	None	No	0.031	NP (normality)
Lead (mg/L)	B-104D	0.001	0.000051	0.015	No	5	0.0008102	0.0004244	80	None	No	0.031	NP (NDs)
Lead (mg/L)	B-107D	0.001	0.000044	0.015	No	4	0.000761	0.000478	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000051	0.015	No	5	0.0006218	0.0005179	60	None	No	0.031	NP (NDs)
Lead (mg/L)	B-56	0.0002446	0.00006493	0.015	No	5	0.0004822	0.0004754	40	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	B-63	0.001	0.000047	0.015	No	5	0.000624	0.0005149	60	Kaplan-Meier	No	0.031	NP (NDs)
Lead (mg/L)	B-77	0.0016	0.00021	0.015	No	7	0.0007743	0.0005154	42.86	None	No	0.008	NP (selected)
Lead (mg/L)	B-82	0.001	0.000059	0.015	No	6	0.0005548	0.0004887	50	None	No	0.0155	NP (normality)
Lead (mg/L)	B-83	0.001	0.000065	0.015	No	6	0.0005458	0.0004704	33.33	None	No	0.0155	NP (normality)
Lead (mg/L)	B-88	0.01033	0.00001383	0.015	No	5	0.003272	0.004927	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	B-93	0.001	0.00012	0.015	No	5	0.000648	0.000482	60	None	No	0.031	NP (NDs)
Lead (mg/L)	DGWC-10	0.001	0.00011	0.015	No	15	0.0006521	0.0004424	60	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.0001	0.015	No	15	0.0006999	0.0004397	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.001	0.00011	0.015	No	17	0.0008947	0.0002972	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.015	No	15	0.0008865	0.0003001	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.015	No	16	0.0008264	0.0003733	81.25	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.0012	0.0001	0.015	No	16	0.0007338	0.0004393	62.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.00009	0.015	No	16	0.0006121	0.0004549	56.25	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00007	0.015	No	16	0.0007243	0.0004251	68.75	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.000086	0.015	No	16	0.0005459	0.0004693	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-20	0.001	0.00015	0.015	No	16	0.0007479	0.0003629	62.5	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.00014	0.015	No	16	0.0006416	0.0004258	56.25	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.015	No	16	0.0009416	0.0002335	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.00012	0.015	No	15	0.0007646	0.0004051	73.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0004511	0.0001577	0.015	No	16	0.0008263	0.001188	25	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.001	0.00053	0.015	No	16	0.001076	0.001068	31.25	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.0022	0.00095	0.015	No	16	0.001629	0.001139	12.5	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.001	0.000051	0.015	No	15	0.0006252	0.0006613	40	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.001	0.00011	0.015	No	15	0.0006521	0.0004097	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-9	0.001	0.00028	0.015	No	16	0.00085	0.0003235	81.25	None	No	0.01	NP (NDs)
Lithium (mg/L)	B-100	0.003016	0.001264	0.04	No	5	0.00214	0.0005225	0	None	No	0.01	Param.
Lithium (mg/L)	B-101D	0.017	0.006902	0.04	No	4	0.01195	0.002223	0	None	No	0.01	Param.
Lithium (mg/L)	B-102D	0.01538	0.01102	0.04	No	5	0.0132	0.001304	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.04001	0.03494	0.04	No	5	0.0376	0.001517	0	None	x^3	0.01	Param.
Lithium (mg/L)	B-106D	0.006141	0.004509	0.04	No	4	0.005325	0.0003594	0	None	No	0.01	Param.
Lithium (mg/L)	B-107D	0.01811	0.01239	0.04	No	4	0.01525	0.001258	0	None	No	0.01	Param.
Lithium (mg/L)	B-108D	0.01692	0.01258	0.04	No	4	0.01475	0.0009574	0	None	No	0.01	Param.
Lithium (mg/L)	B-109D	0.01711	0.01139	0.04	No	4	0.01425	0.001258	0	None	No	0.01	Param.
Lithium (mg/L)	B-111D	0.03138	0.01862	0.04	No	5	0.025	0.003808	0	None	No	0.01	Param.
Lithium (mg/L)	B-56	0.006196	0.004724	0.04	No	5	0.00546	0.0004393	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.015	0.0078	0.04	No	8	0.009375	0.002345	12.5	None	No	0.004	NP (normality)
Lithium (mg/L)	B-63	0.015	0.0062	0.04	No	6	0.0078	0.00353	16.67	None	No	0.0155	NP (normality)
Lithium (mg/L)	B-66	0.015	0.00073	0.04	No	5	0.01215	0.006382	80	None	No	0.031	NP (NDs)
Lithium (mg/L)	B-77	0.004192	0.0008941	0.04	No	7	0.006021	0.00628	28.57	Kaplan-Meier	x^(1/3)	0.01	Param.



# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	B-82	0.004158	0.0006351	0.04	No	6	0.001987	0.001394	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	B-83	0.004017	0.001316	0.04	No	6	0.002667	0.0009832	0	None	No	0.01	Param.
Lithium (mg/L)	B-88	0.029	0.0016	0.04	No	5	0.00898	0.01143	0	None	No	0.031	NP (selected)
Lithium (mg/L)	B-93	0.013	0.011	0.04	No	5	0.0116	0.0008944	0	None	No	0.031	NP (normality)
Lithium (mg/L)	DGWC-10	0.006718	0.002851	0.04	No	15	0.00538	0.004126	13.33	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-11	0.0028	0.0019	0.04	No	15	0.003113	0.003305	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.015	0.0011	0.04	No	17	0.01089	0.006559	70.59	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.0037	0.0029	0.04	No	15	0.0048	0.004151	13.33	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0034	0.04	No	16	0.004694	0.002975	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0064	0.0057	0.04	No	15	0.006173	0.0008681	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.015	0.00096	0.04	No	16	0.009782	0.006959	62.5	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0035	0.003	0.04	No	16	0.003937	0.002958	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.085	0.023	0.04	No	16	0.04749	0.02995	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.04	No	16	0.006756	0.005599	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-21	0.0063	0.0057	0.04	No	16	0.006512	0.002288	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0046	0.0036	0.04	No	16	0.004737	0.00277	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.0118	0.003707	0.04	No	16	0.01111	0.01783	6.25	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-4	0.0038	0.0025	0.04	No	15	0.003787	0.003138	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.01251	0.00968	0.04	No	16	0.01109	0.002172	6.25	None	No	0.01	Param.
<b>Lithium (mg/L)</b>	<b>DGWC-47</b>	<b>0.07348</b>	<b>0.05756</b>	<b>0.04</b>	<b>Yes</b>	<b>16</b>	<b>0.06552</b>	<b>0.01223</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>DGWC-48</b>	<b>0.1258</b>	<b>0.1063</b>	<b>0.04</b>	<b>Yes</b>	<b>16</b>	<b>0.1161</b>	<b>0.015</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	DGWC-5	0.00808	0.004375	0.04	No	15	0.006373	0.002953	6.667	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	DGWC-8	0.006975	0.004221	0.04	No	15	0.005847	0.002818	6.667	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-9	0.02929	0.02363	0.04	No	16	0.02646	0.004347	6.25	None	No	0.01	Param.
Mercury (mg/L)	B-100	0.0002	0.00011	0.002	No	4	0.0001775	0.000045	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-101D	0.0002	0.00014	0.002	No	4	0.000185	0.00003	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-104D	0.0002	0.000079	0.002	No	5	0.0001758	0.00005411	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-107D	0.0002	0.00016	0.002	No	4	0.00019	0.00002	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-108D	0.0002	0.00014	0.002	No	4	0.000185	0.00003	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.000094	0.002	No	5	0.0001788	0.0000474	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-56	0.0002	0.00016	0.002	No	5	0.000192	0.00001789	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No	6	0.000185	0.00003674	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.0001	0.002	No	5	0.000162	0.00005215	60	None	No	0.031	NP (NDs)
Mercury (mg/L)	B-93	0.0002837	0.00006508	0.002	No	5	0.0001896	0.00006626	20	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0002	0.000081	0.002	No	15	0.0001681	0.00005494	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.0002	0.00008	0.002	No	15	0.0001727	0.00005688	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00008	0.002	No	17	0.0001568	0.00006349	64.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	15	0.000184	0.00004239	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	16	0.0001744	0.00005537	81.25	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	16	0.0001912	0.000035	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.00006	0.002	No	16	0.0001441	0.00006323	50	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-19	0.0002	0.00009	0.002	No	16	0.0001737	0.00005726	81.25	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	16	0.0002046	0.000126	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	16	0.0001781	0.00004708	81.25	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00008	0.002	No	16	0.0001606	0.00006202	68.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.0001	0.002	No	16	0.0001697	0.00005593	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0001952	0.000126	0.002	No	16	0.0001862	0.00005548	31.25	Kaplan-Meier	sqrt(x)	0.01	Param.
Mercury (mg/L)	DGWC-4	0.00022	0.00013	0.002	No	15	0.0002068	0.000115	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	16	0.00019	0.00004	93.75	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	16	0.0001912	0.000035	93.75	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002535	0.0001262	0.002	No	15	0.0001983	0.0001154	13.33	None	x^(1/3)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.000079	0.002	No	15	0.0001527	0.00006222	60	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.00021	0.00013	0.002	No	16	0.0001851	0.00008525	43.75	None	No	0.01	NP (normality)
Molybdenum (mg/L)	B-101D	0.01	0.0022	0.1	No	4	0.00805	0.0039	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	B-104D	0.01	0.00083	0.1	No	5	0.006406	0.004923	60	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	B-109D	0.002608	0.0003417	0.1	No	4	0.001475	0.0004992	0	None	No	0.01	Param.
Molybdenum (mg/L)	B-111D	0.013	0.0052	0.1	No	5	0.00716	0.003317	0	None	No	0.031	NP (normality)

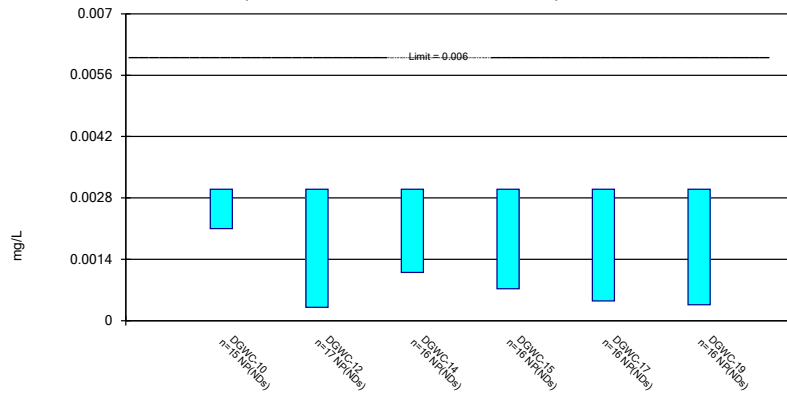
# Confidence Intervals - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 4/13/2022, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	B-66	0.01	0.0015	0.1	No	5	0.00666	0.004575	60	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.1	No	5	0.00648	0.00482	60	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	DGWC-13	0.02437	0.01244	0.1	No	15	0.01892	0.009349	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.0018	0.1	No	16	0.004912	0.00409	37.5	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-23	0.01092	0.006853	0.1	No	16	0.008888	0.003128	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.007089	0.004724	0.1	No	15	0.005907	0.001745	6.667	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.0019	0.05	No	5	0.00438	0.001386	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-101D	0.005	0.0031	0.05	No	4	0.004525	0.00095	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-104D	0.005	0.0016	0.05	No	5	0.00394	0.001545	60	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-108D	0.005	0.0016	0.05	No	4	0.00415	0.0017	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	B-111D	0.005	0.0022	0.05	No	5	0.00444	0.001252	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	B-56	0.02912	0.003536	0.05	No	5	0.01412	0.008641	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	B-77	0.005	0.0017	0.05	No	7	0.004529	0.001247	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0016	0.05	No	6	0.00345	0.001706	50	None	No	0.0155	NP (normality)
Selenium (mg/L)	B-83	0.0295	0.009895	0.05	No	6	0.0197	0.007137	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.003306	0.001194	0.05	No	5	0.00308	0.001289	20	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	B-93	0.036	0.0063	0.05	No	5	0.01556	0.0123	0	None	No	0.031	NP (selected)
Selenium (mg/L)	DGWC-10	0.05073	0.02131	0.05	No	15	0.03602	0.02171	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0017	0.05	No	17	0.003994	0.00221	58.82	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004335	0.001931	0.05	No	15	0.00442	0.002391	20	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-14	0.01	0.0016	0.05	No	16	0.004062	0.002277	62.5	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	16	0.005112	0.001528	93.75	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.008991	0.006416	0.05	No	16	0.007856	0.002312	12.5	None	ln(x)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.008721	0.005441	0.05	No	16	0.007081	0.002521	12.5	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0053	0.0037	0.05	No	16	0.005062	0.001593	43.75	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.06568	0.03434	0.05	No	16	0.05001	0.02408	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	16	0.004794	0.000825	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	15	0.00476	0.0009295	93.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.01246	0.004865	0.05	No	16	0.008662	0.005836	12.5	None	No	0.01	Param.
Selenium (mg/L)	DGWC-48	0.006784	0.0028	0.05	No	16	0.005769	0.00318	18.75	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.04184	0.008956	0.05	No	15	0.03077	0.04124	6.667	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.0069	0.0028	0.05	No	15	0.004613	0.002068	53.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-9	0.1254	0.0492	0.05	No	16	0.08729	0.05853	0	None	No	0.01	Param.
Thallium (mg/L)	B-56	0.0003386	0.0001454	0.002	No	5	0.000242	0.00005762	0	None	No	0.01	Param.
Thallium (mg/L)	B-82	0.001	0.000099	0.002	No	6	0.0007015	0.0004624	66.67	None	No	0.0155	NP (NDs)
Thallium (mg/L)	B-83	0.001	0.000072	0.002	No	6	0.0008453	0.0003789	83.33	None	No	0.0155	NP (NDs)
Thallium (mg/L)	B-88	0.001	0.0002	0.002	No	5	0.00084	0.0003578	80	None	No	0.031	NP (NDs)
Thallium (mg/L)	DGWC-10	0.0006	0.00034	0.002	No	15	0.00048	0.0002241	13.33	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.00009	0.002	No	17	0.0006275	0.0004591	58.82	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00017	0.002	No	16	0.0004356	0.0003933	31.25	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.00059	0.00049	0.002	No	16	0.0005456	0.0001339	6.25	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-20	0.0009559	0.0005248	0.002	No	16	0.0009456	0.0004827	31.25	Kaplan-Meier	ln(x)	0.01	Param.
Thallium (mg/L)	DGWC-22	0.001	0.00007	0.002	No	16	0.0007084	0.0004467	68.75	Kaplan-Meier	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	15	0.0009382	0.0002394	93.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00009	0.002	No	16	0.0007712	0.0004093	75	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00036	0.0002	0.002	No	16	0.0003469	0.0002599	12.5	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.00008	0.002	No	16	0.0007129	0.0004399	68.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.0002	0.002	No	15	0.0008227	0.0003682	80	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	15	0.0003753	0.0003274	20	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.001	0.00043	0.002	No	16	0.0007213	0.0002474	37.5	None	No	0.01	NP (normality)

### Non-Parametric Confidence Interval

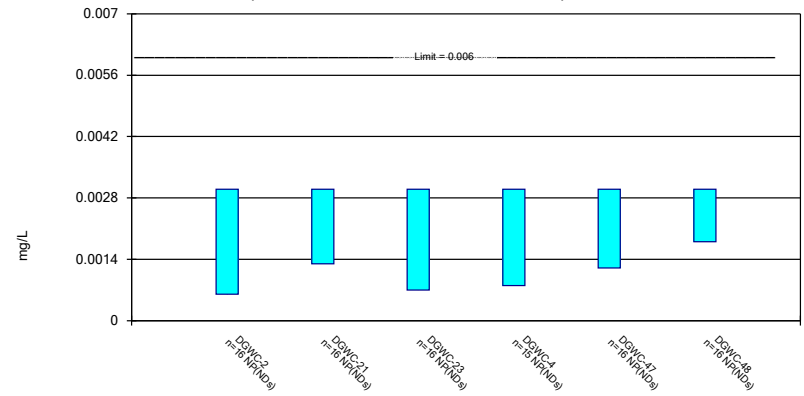
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Constituent: Antimony Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

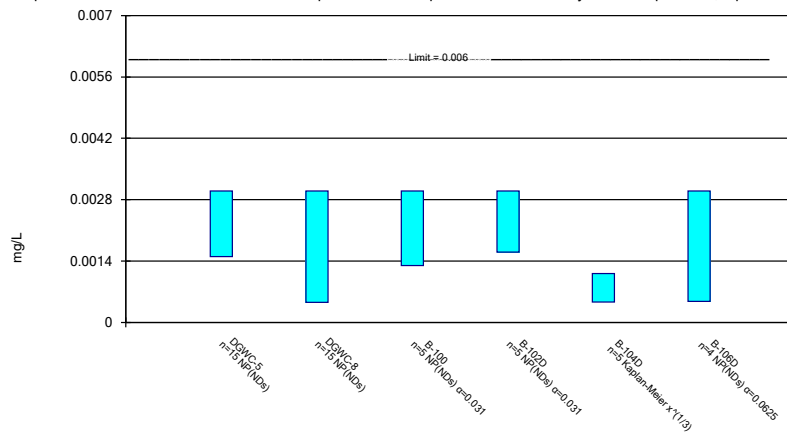
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

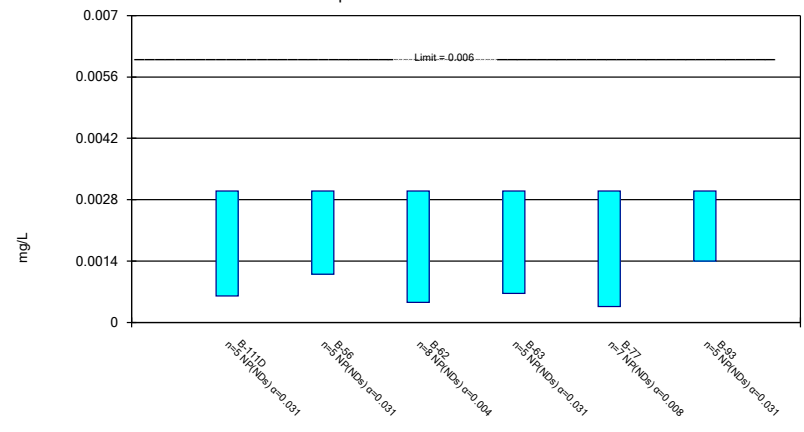
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

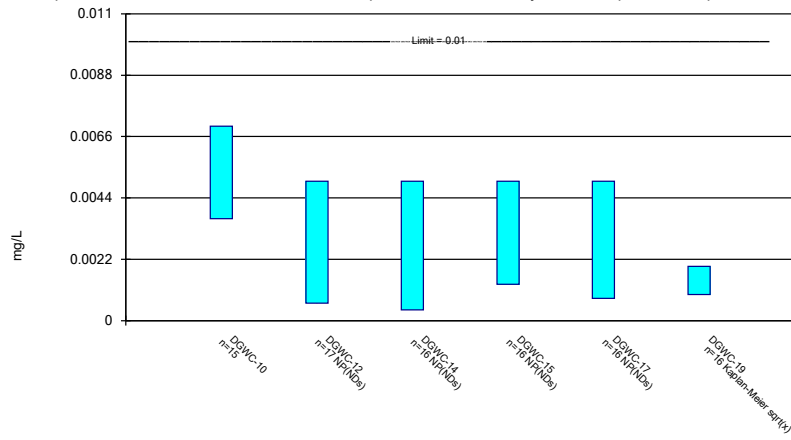
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

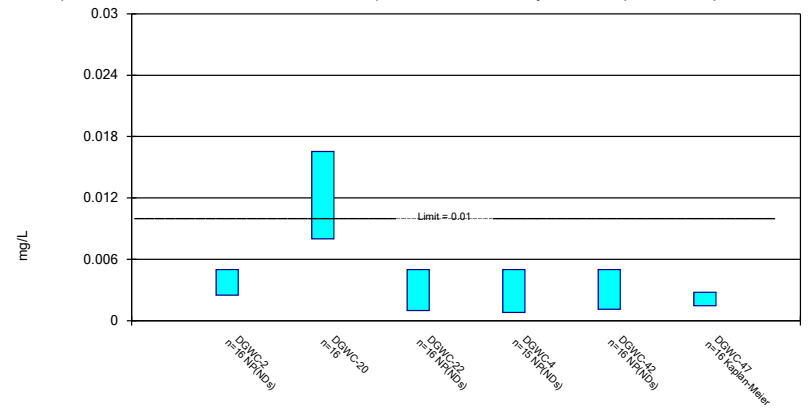
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

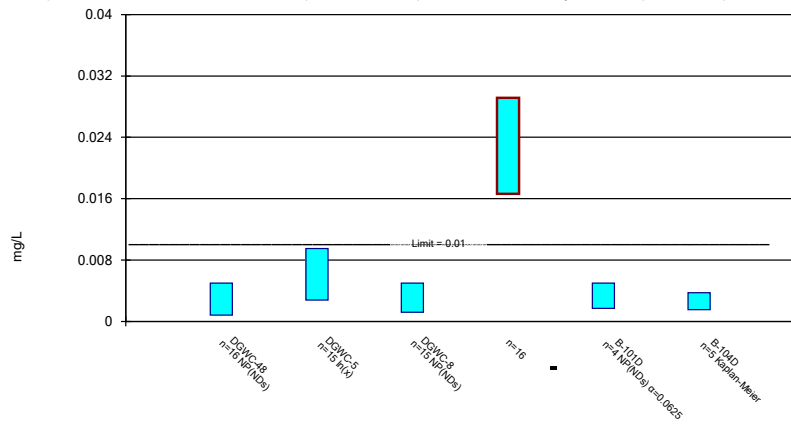
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

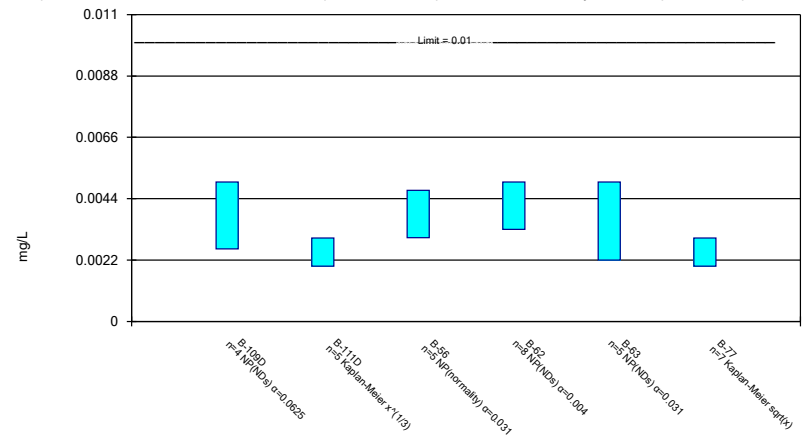
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

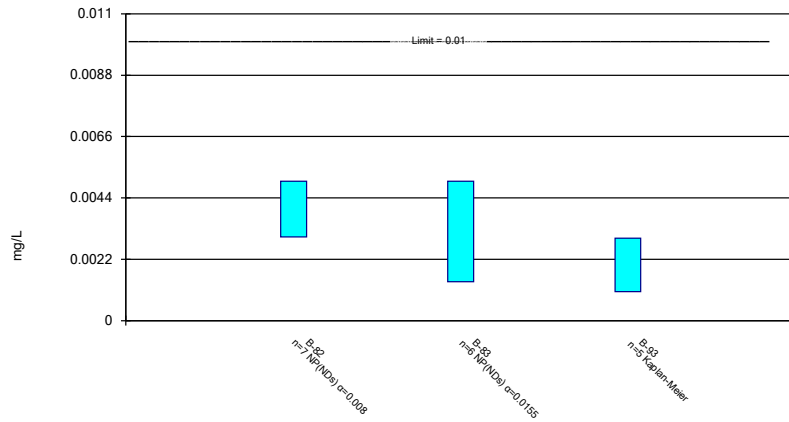
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

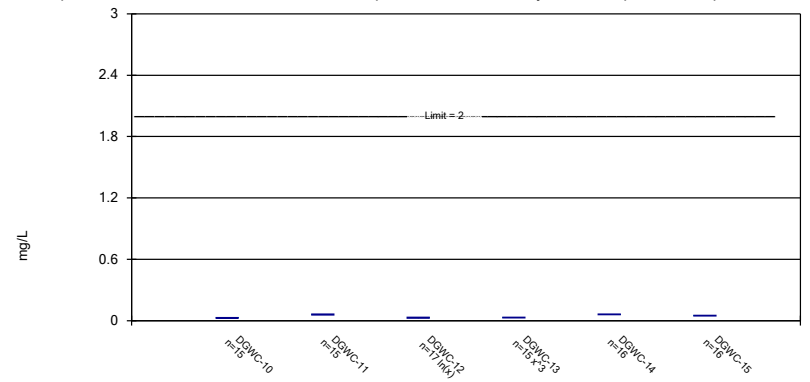
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

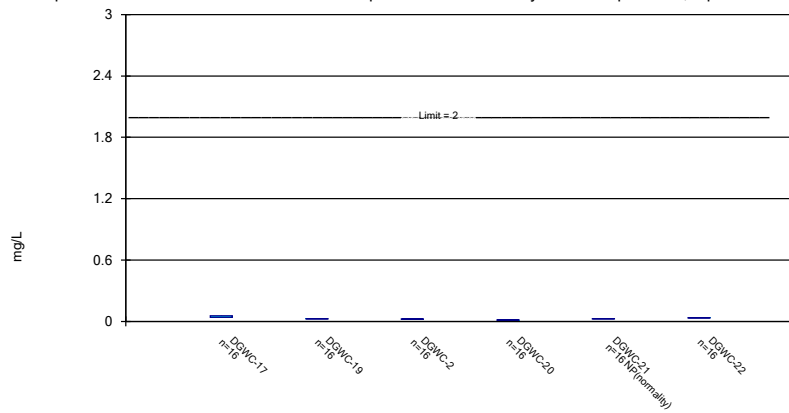
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

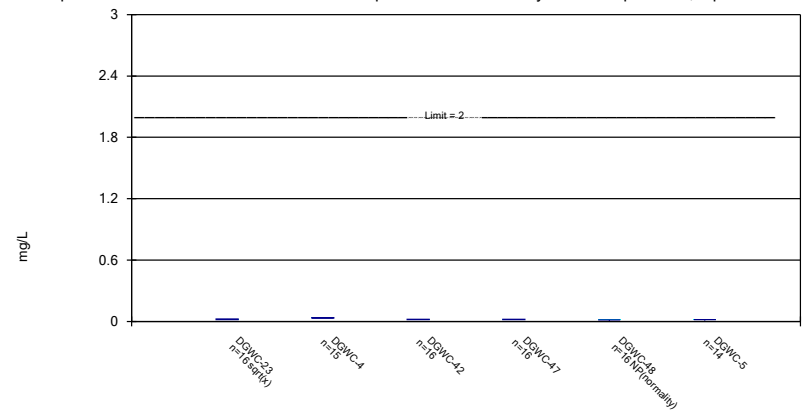
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

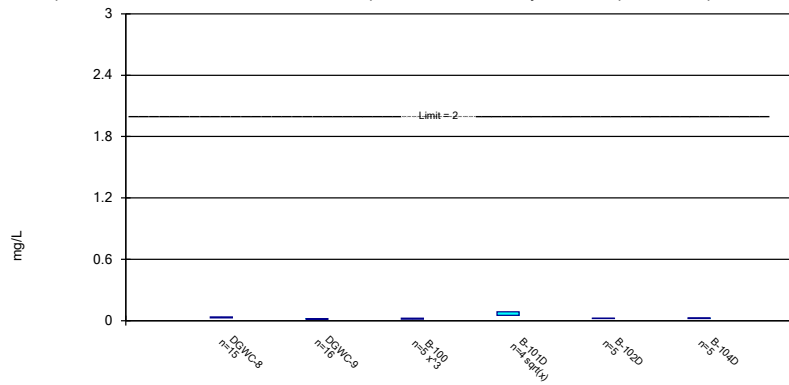
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

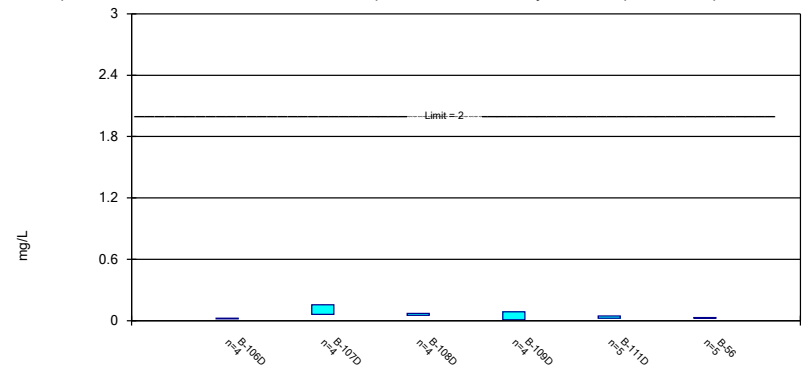
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

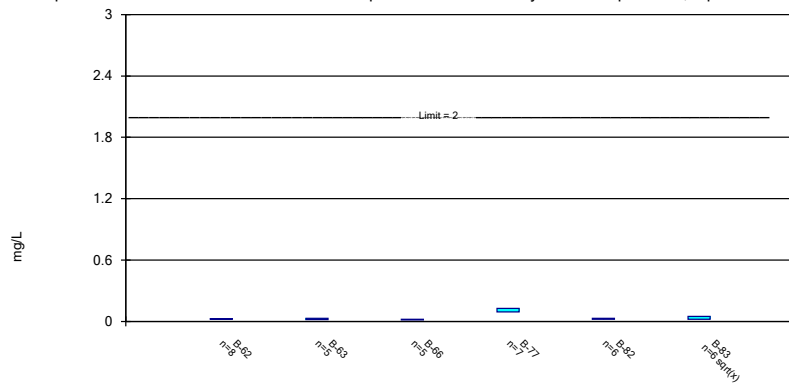
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

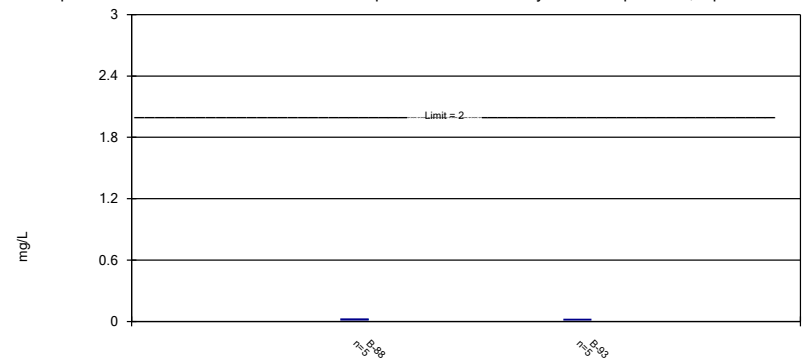
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

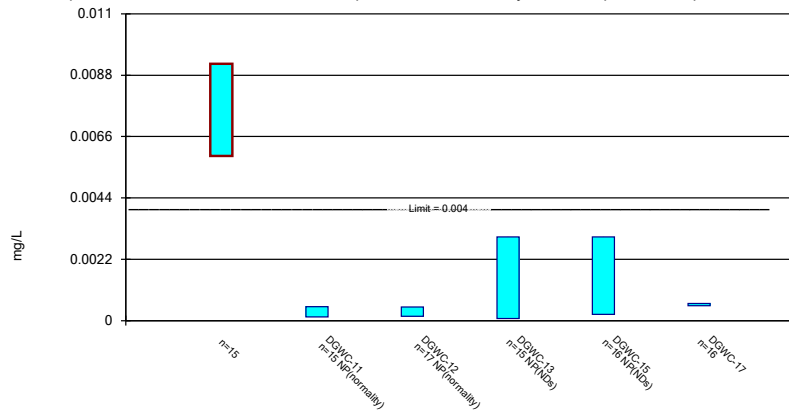
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

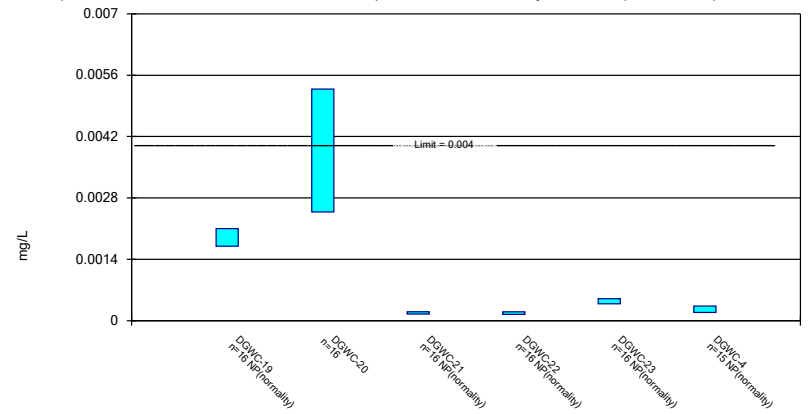
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

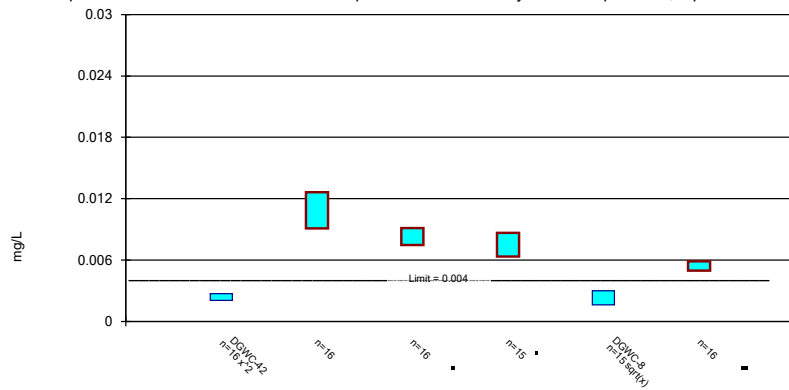
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

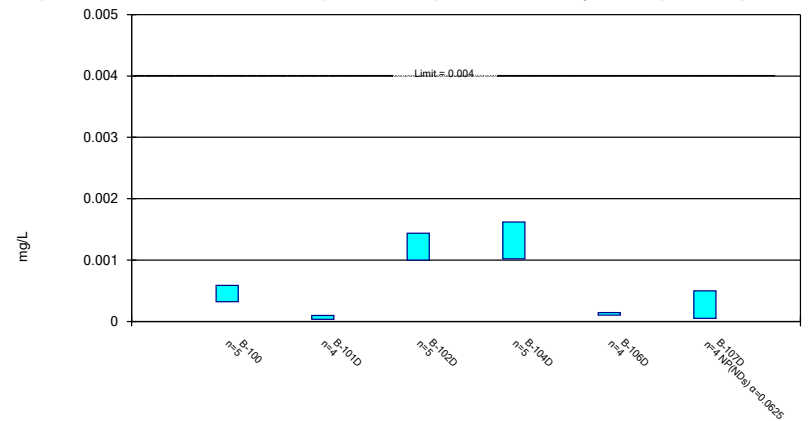
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

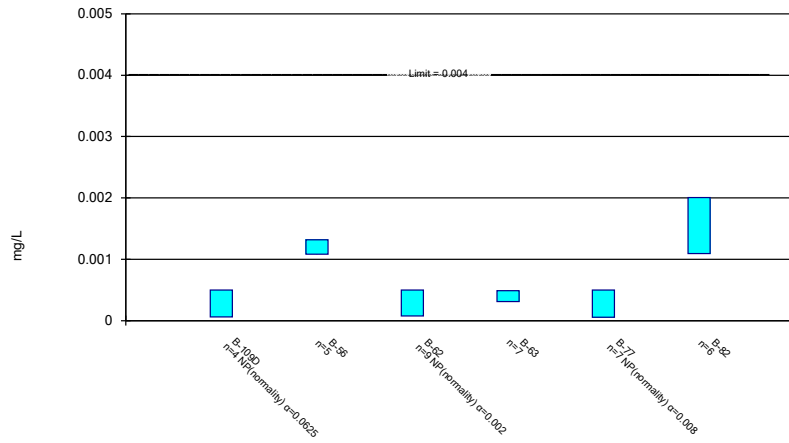
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

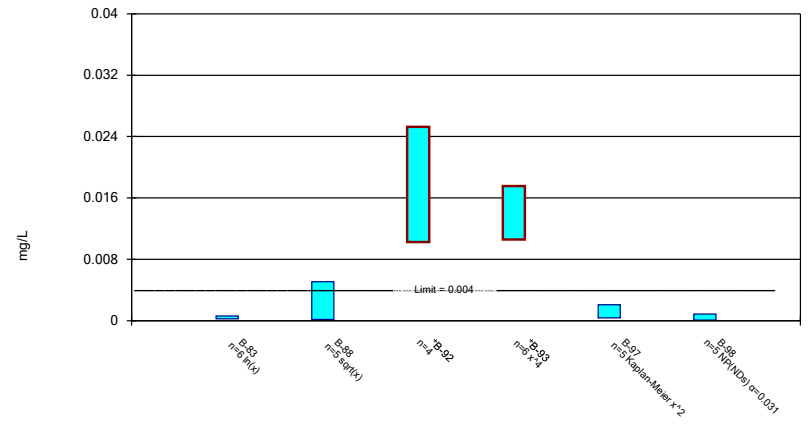
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

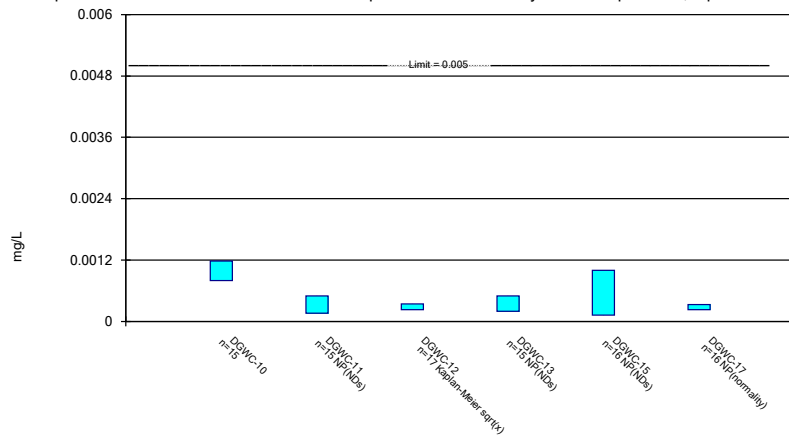
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

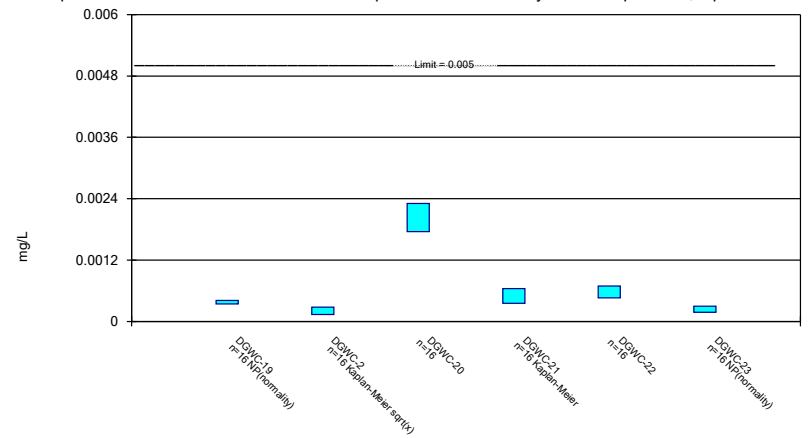
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 4/13/2022 4:31 PM 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.

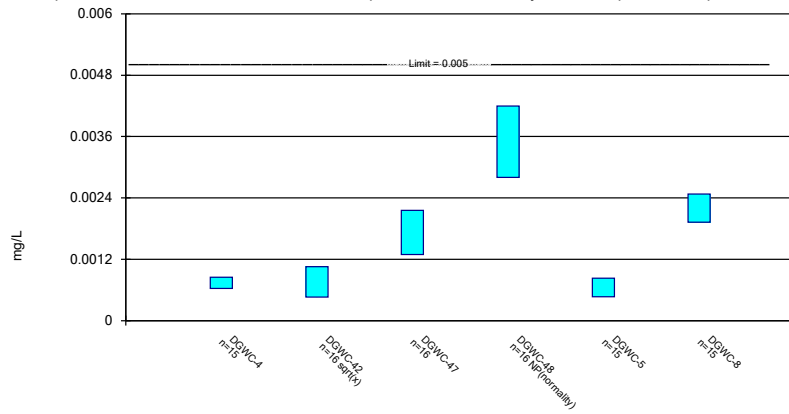


Constituent: Cadmium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP



Parametric and Non-Parametric (NP) Confidence Interval

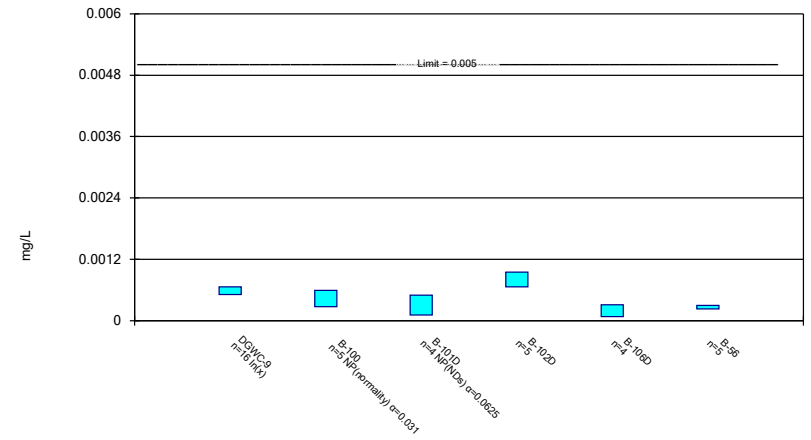
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

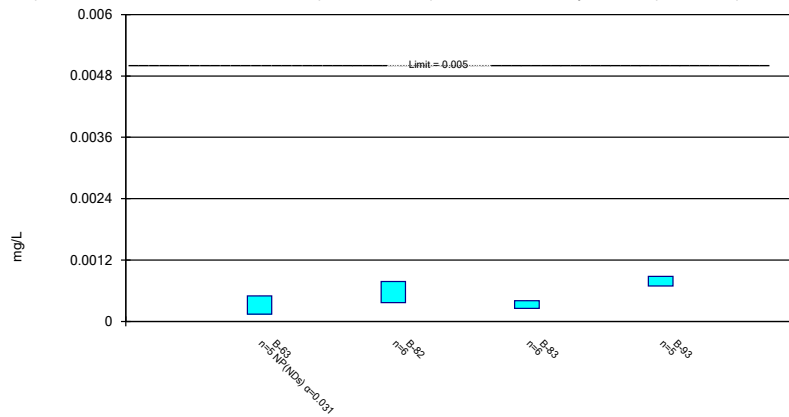
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

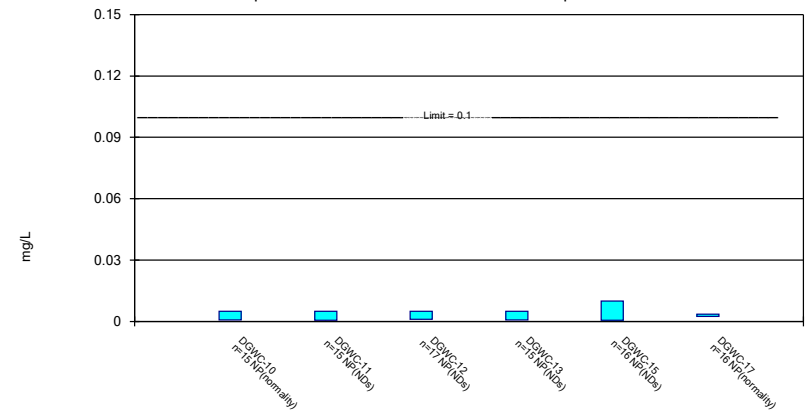
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

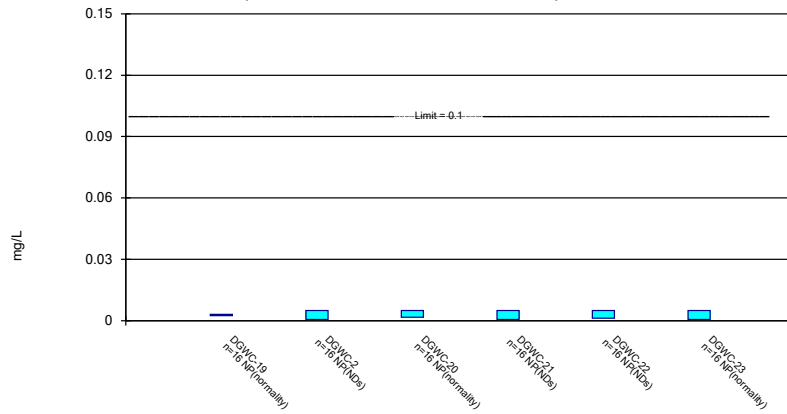
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

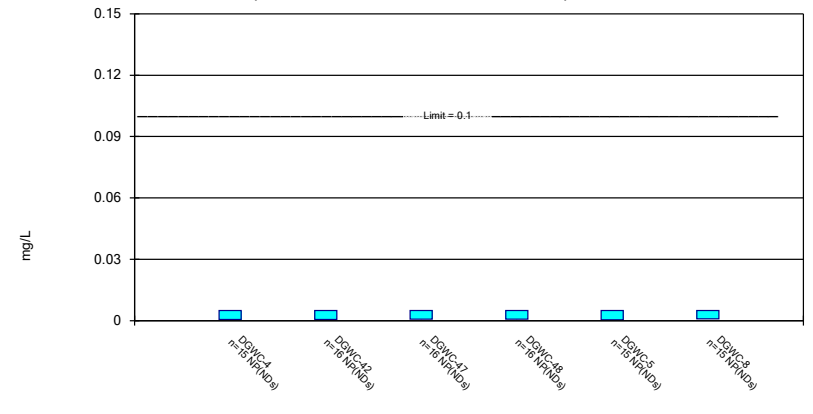
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

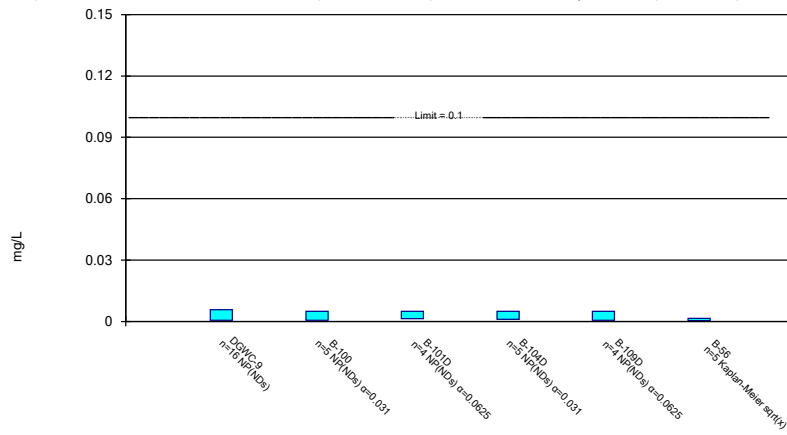
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

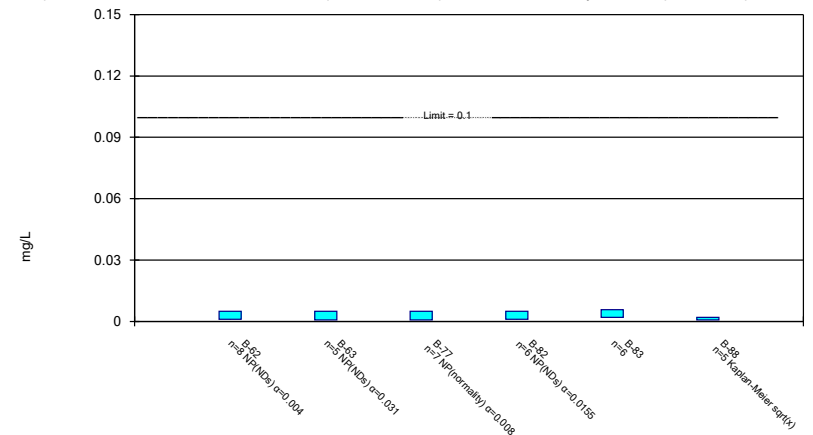
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

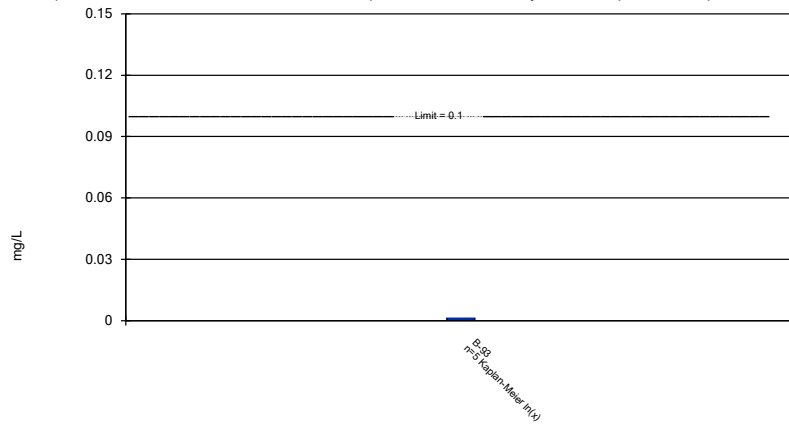
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

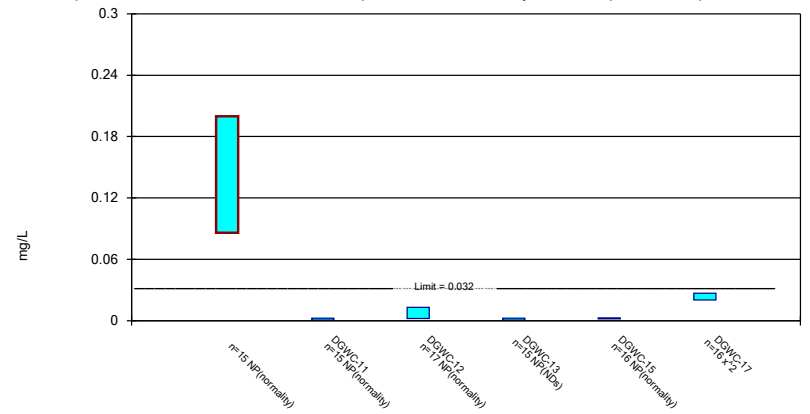
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 4/13/2022 4:31 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

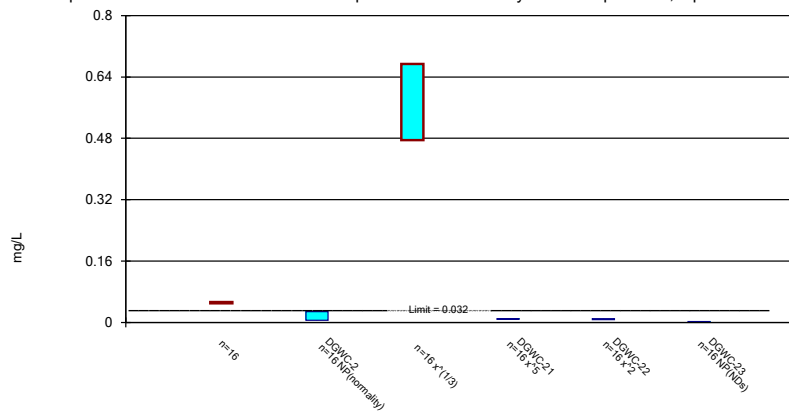
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

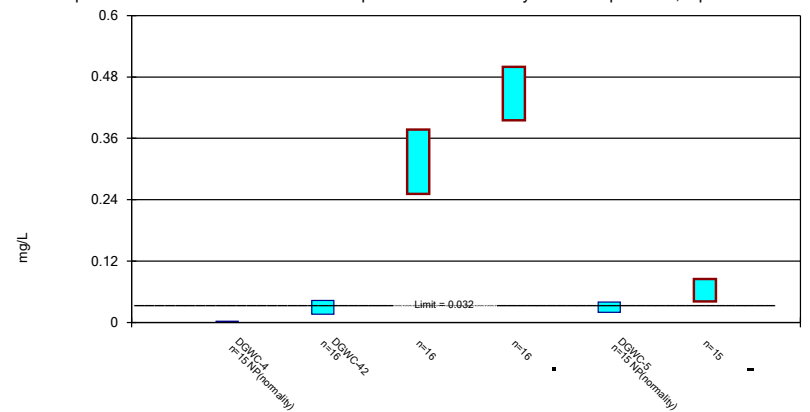
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

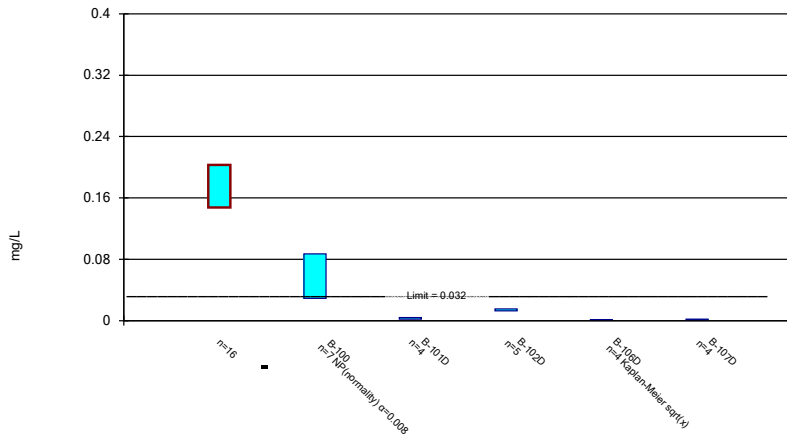
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

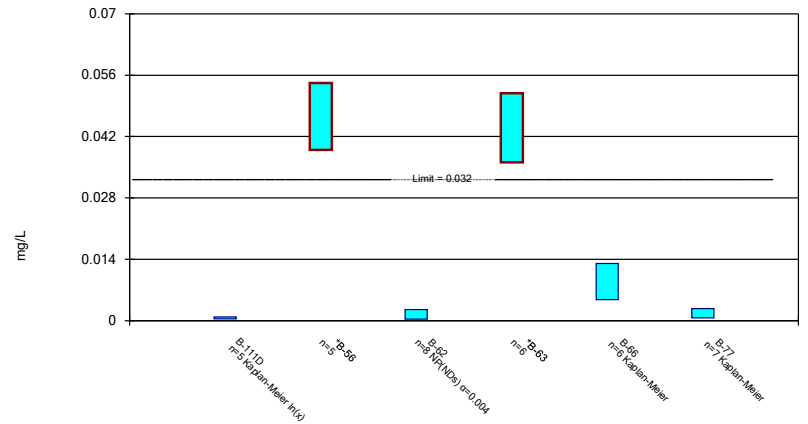
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

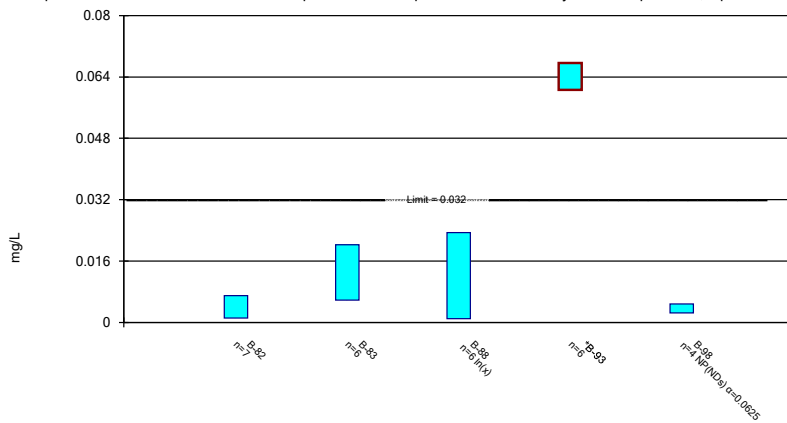
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

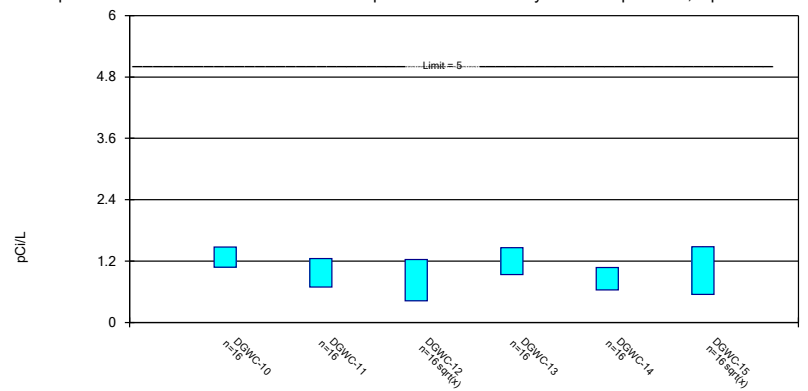
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

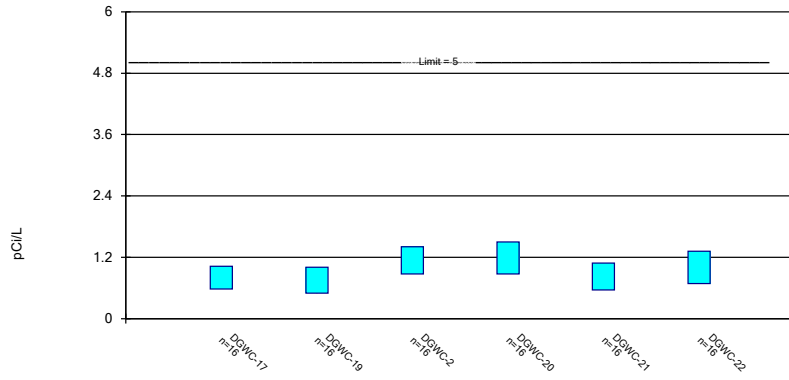
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

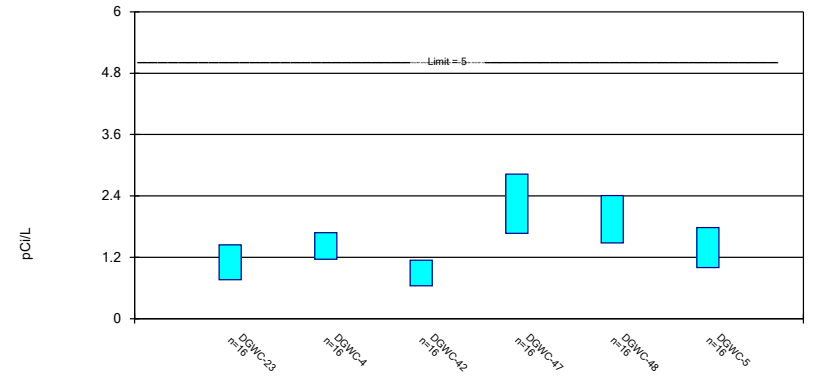
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Inte  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

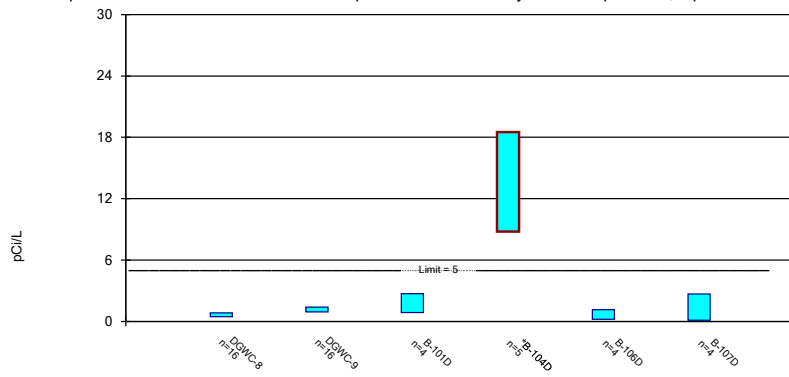
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Inte  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

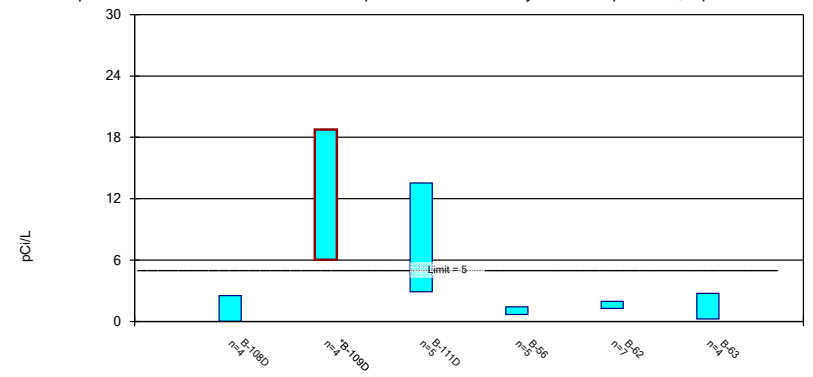
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Inte  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

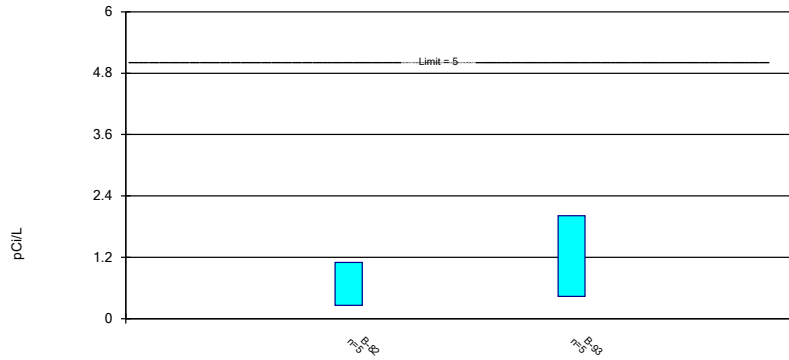
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Inte  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

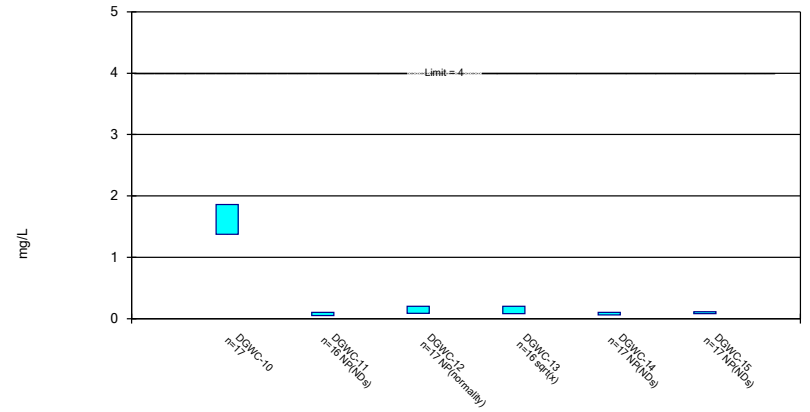
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Inte  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

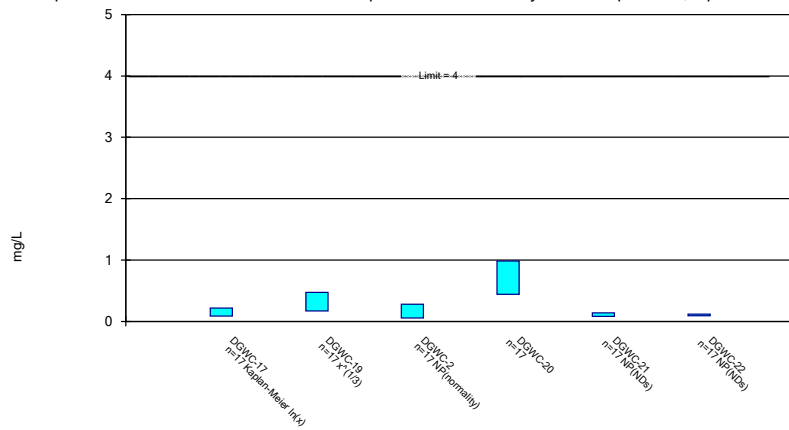
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

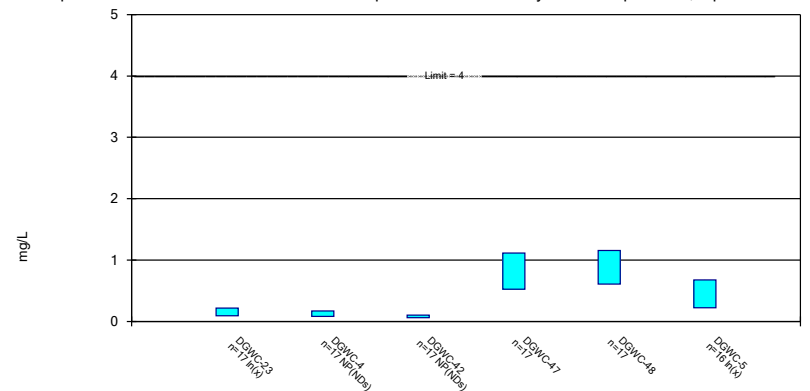
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

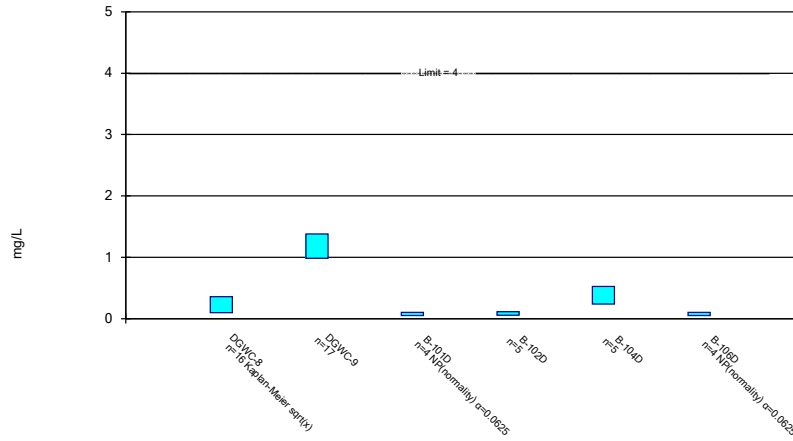
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

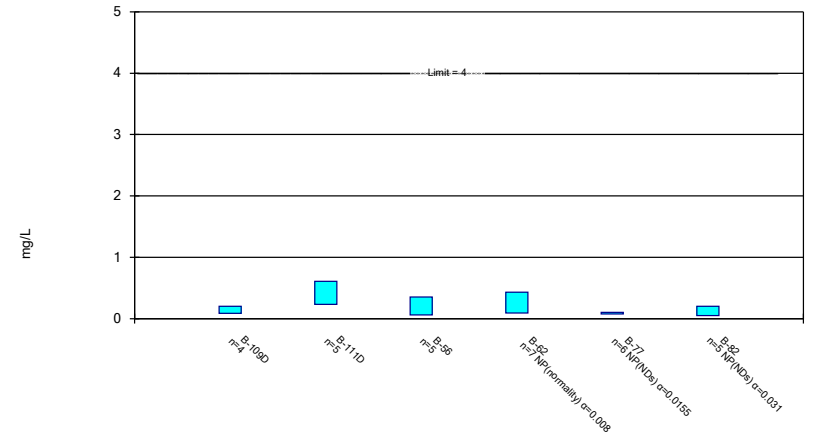
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

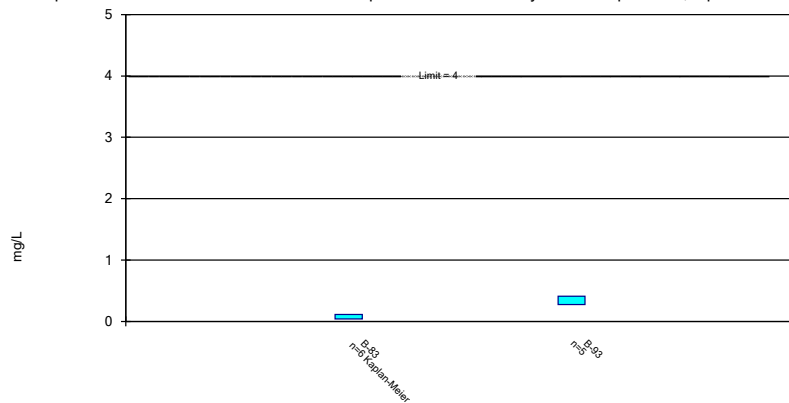
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

Parametric Confidence Interval

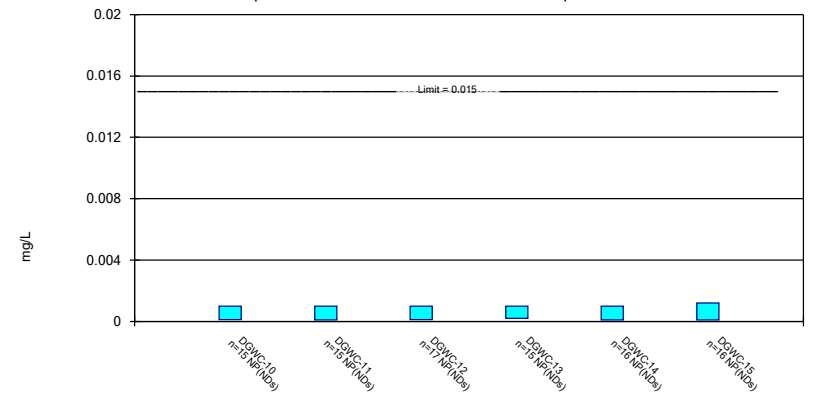
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

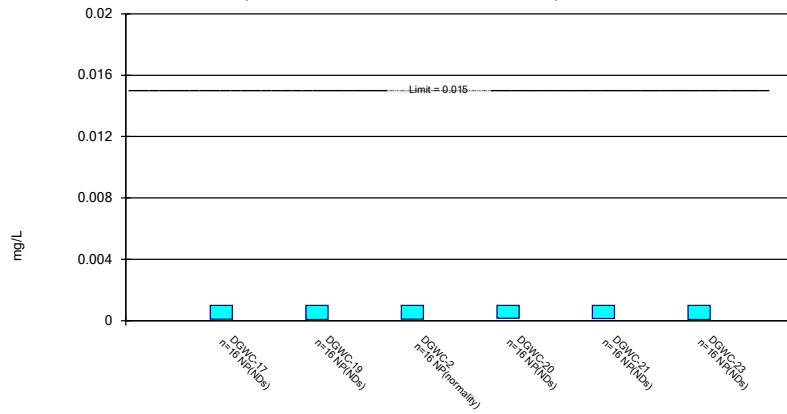
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

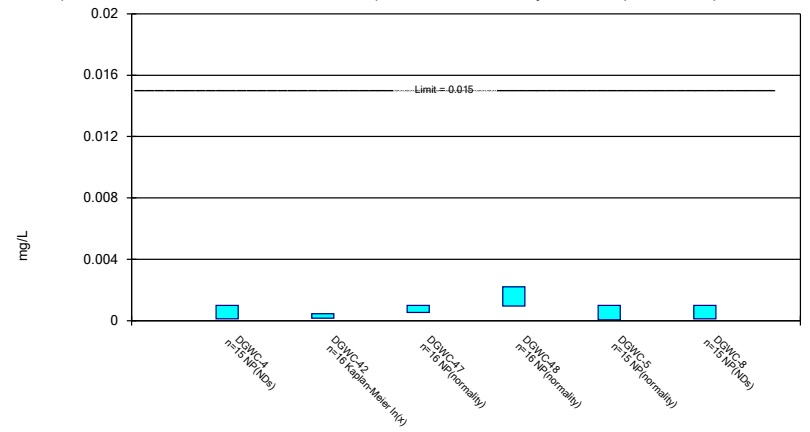
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

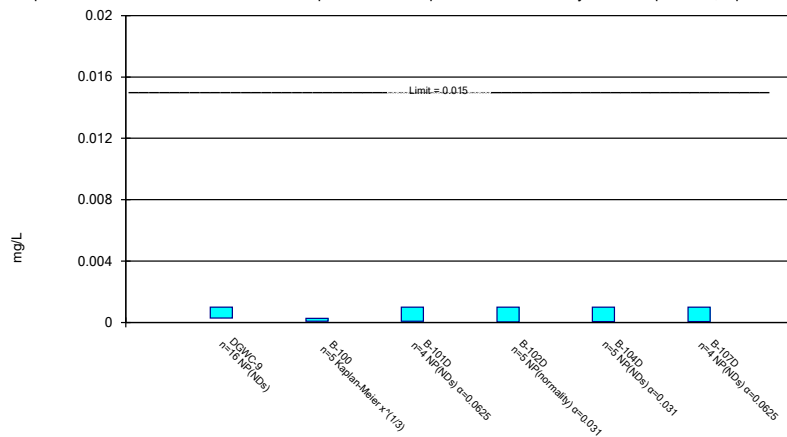
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

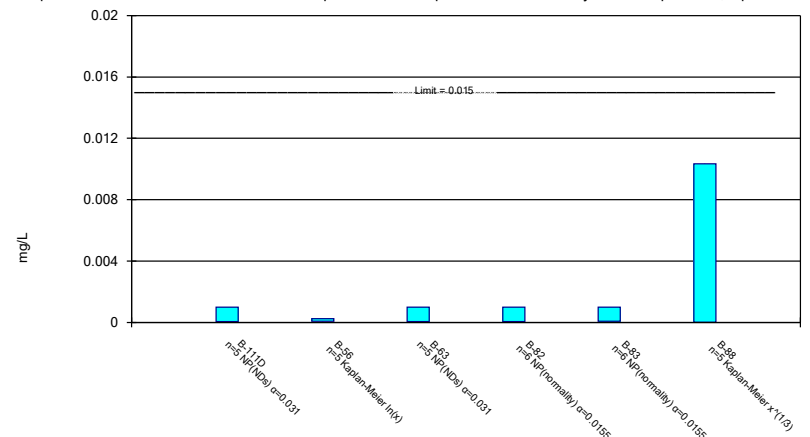
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 4/13/2022 4:32 PM 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.

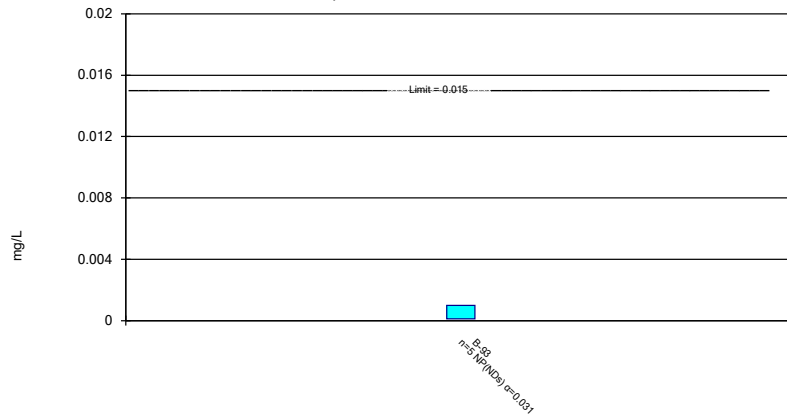


Constituent: Lead Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP



### Non-Parametric Confidence Interval

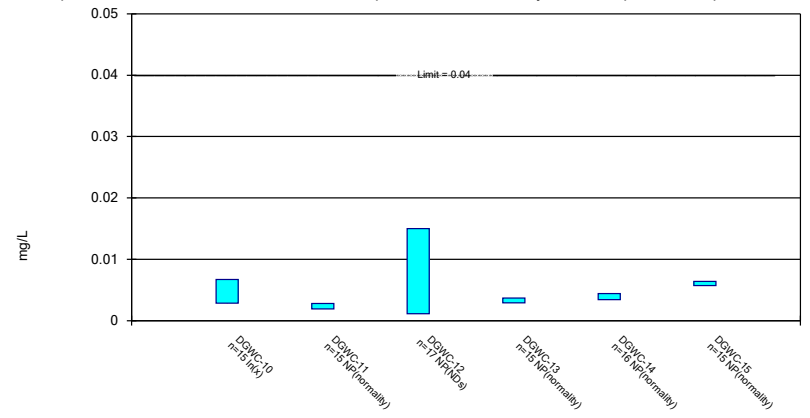
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

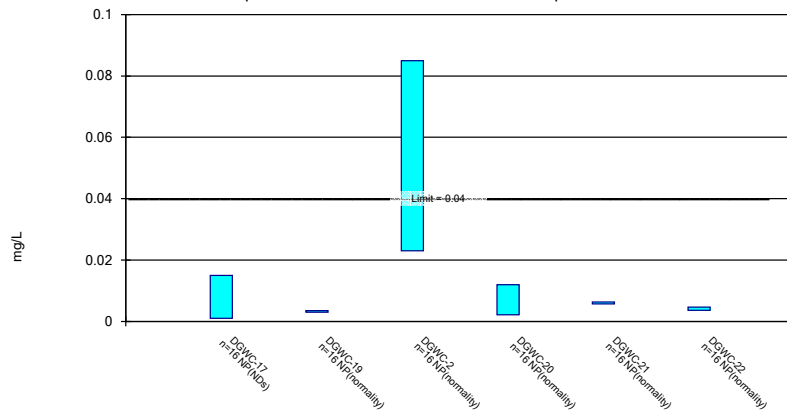
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

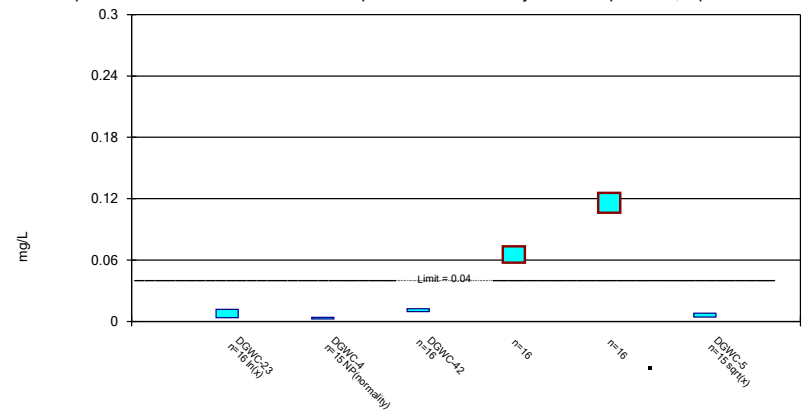
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lithium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

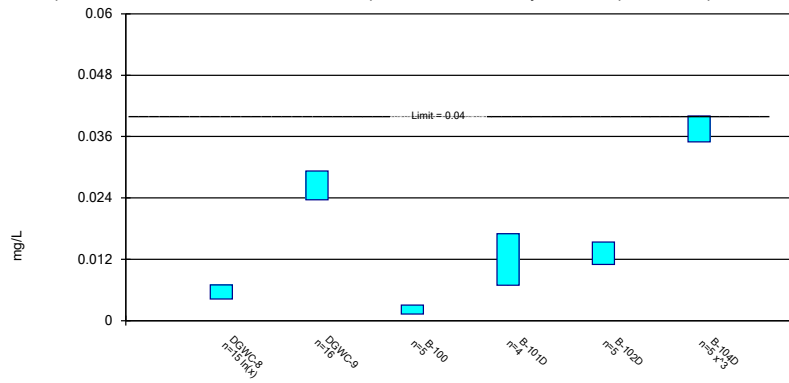
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

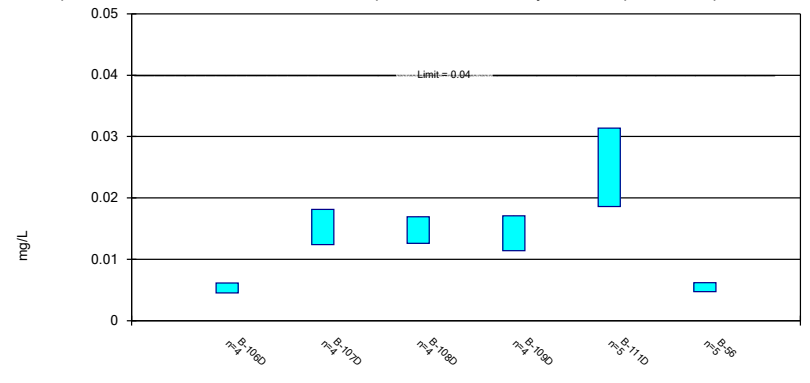
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric Confidence Interval

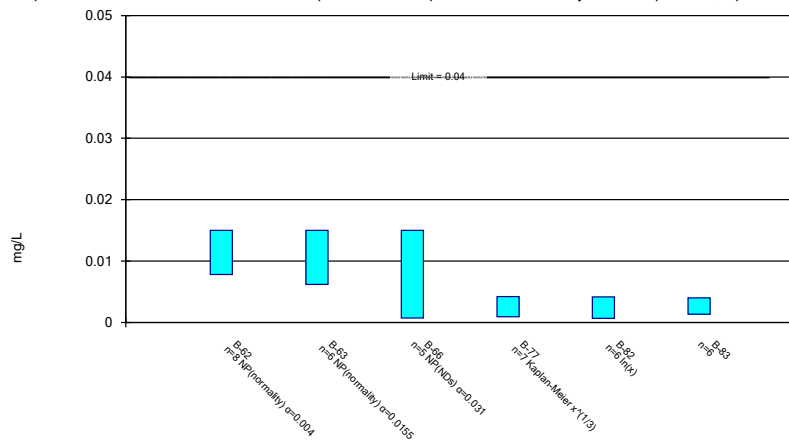
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

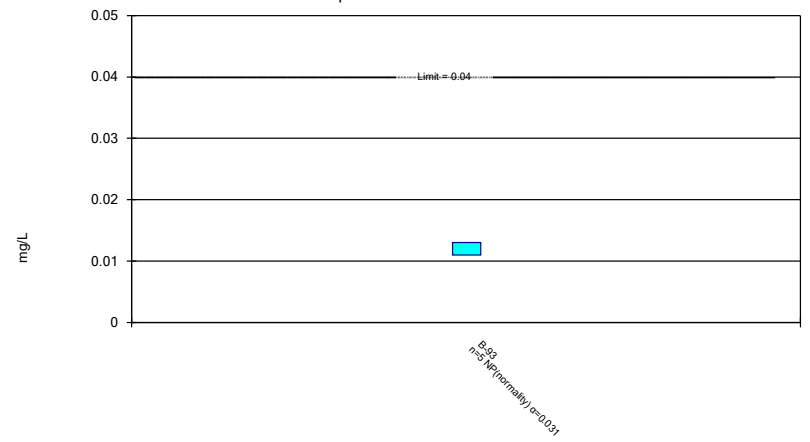
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

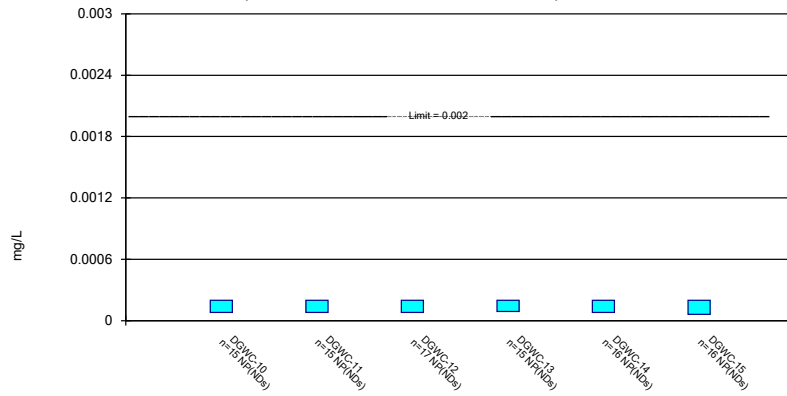
Compliance Limit is not exceeded.



Constituent: Lithium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

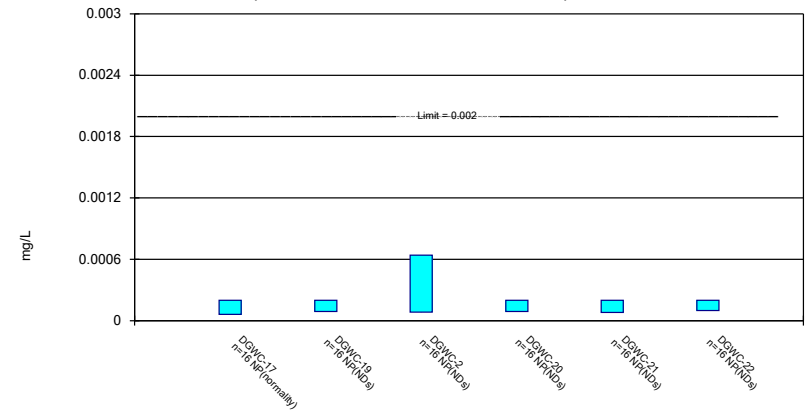
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

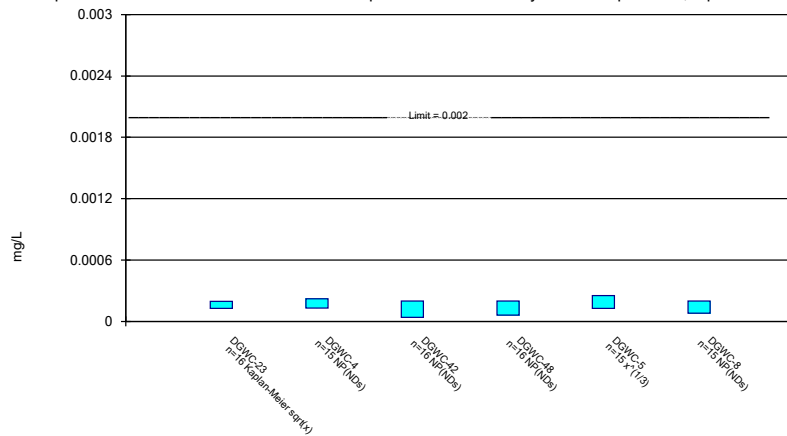
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

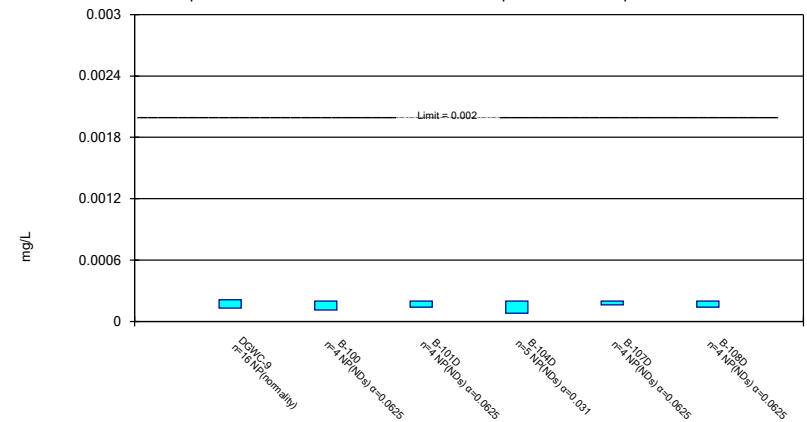
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

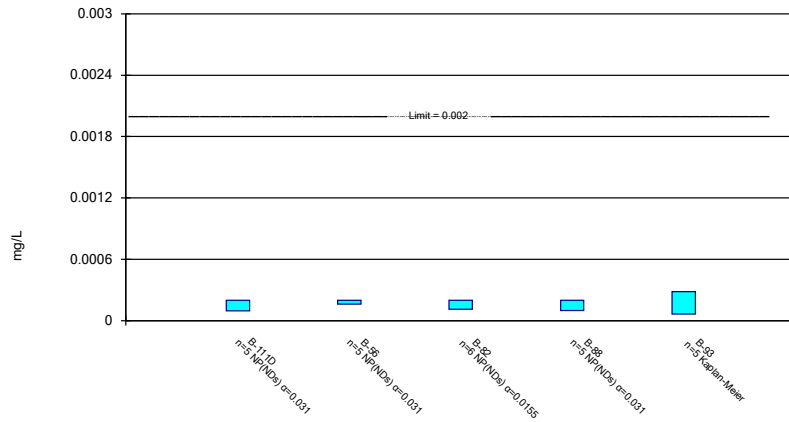
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
 Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

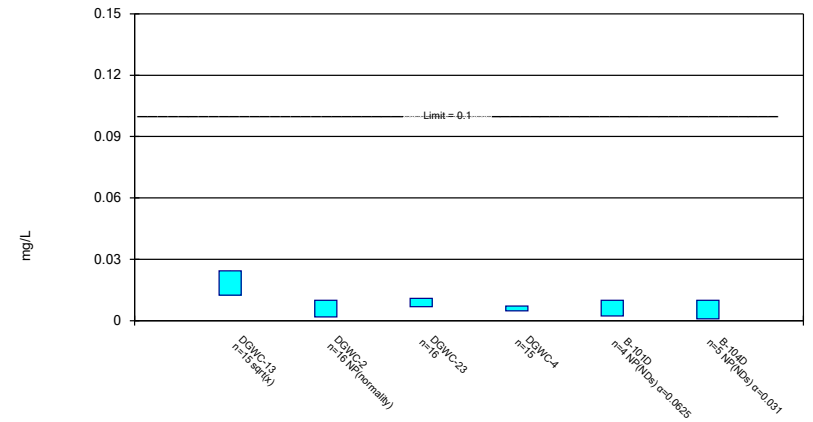
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

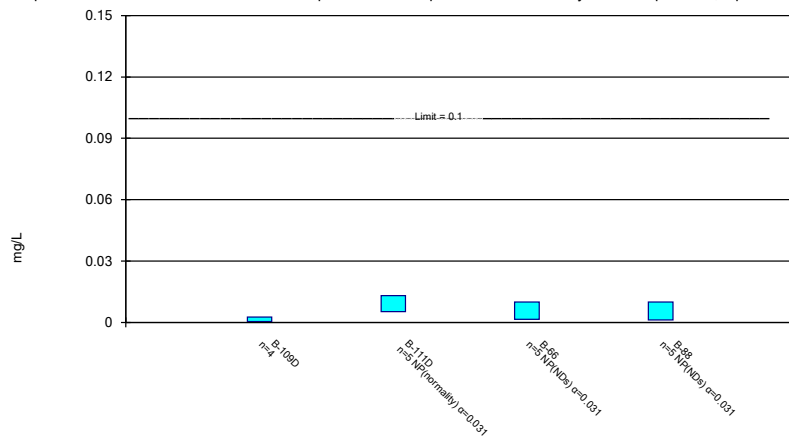
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

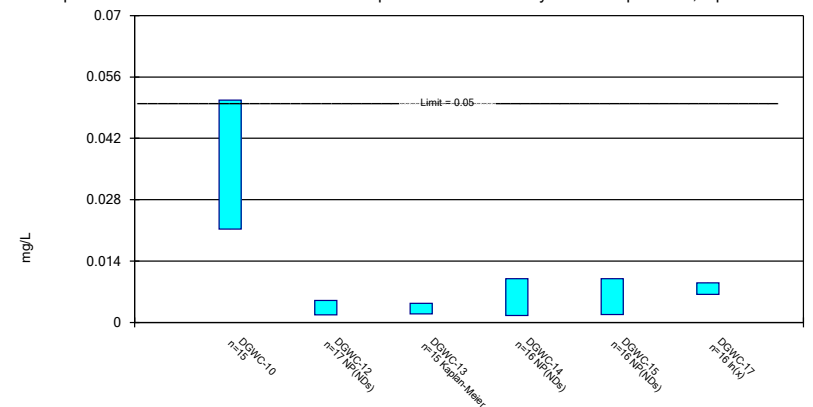
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

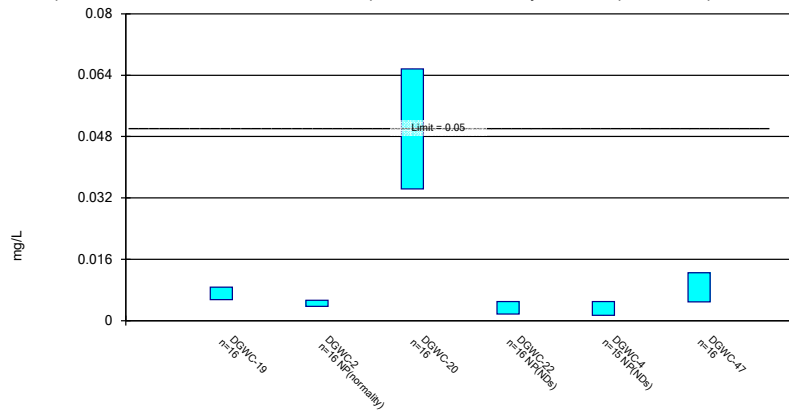
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

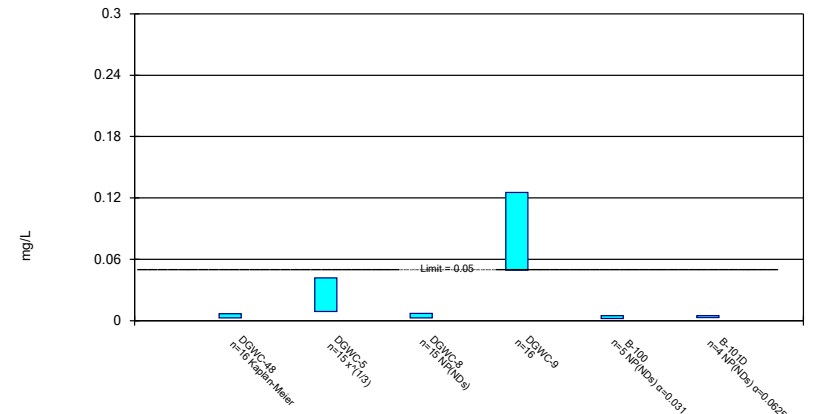
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

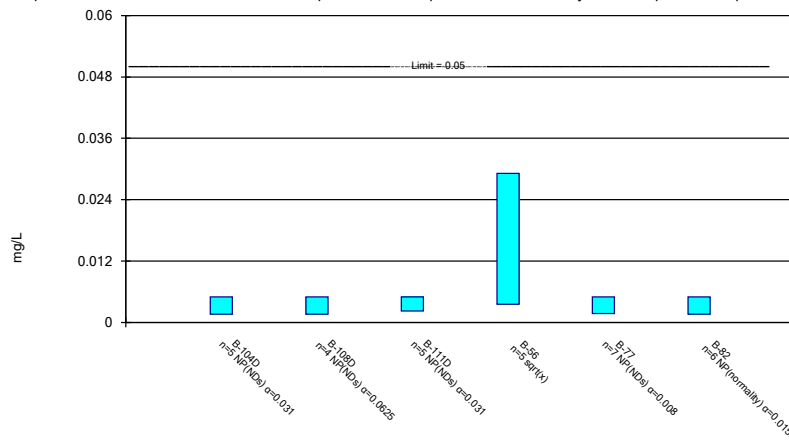
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

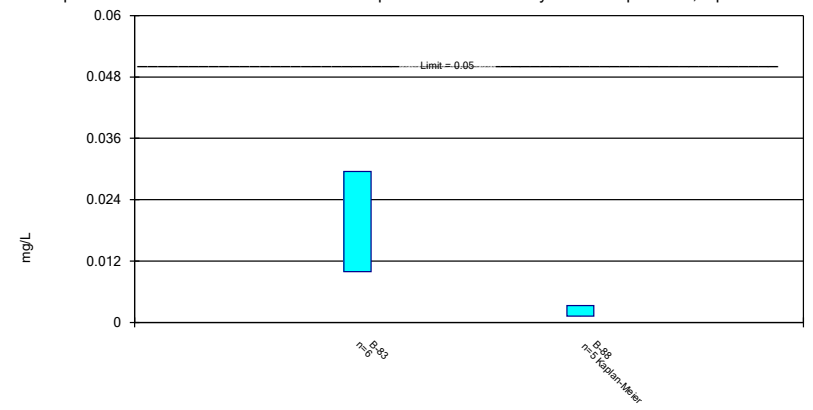
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/13/2022 4:32 PM 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: Selenium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

# Confidence Interval

Constituent: Antimony (mg/L)    Analysis Run 4/13/2022 4:35 PM    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)					
Mean	0.00294	0.002841	0.002881	0.002691	0.002841	0.002835
Std. Dev.	0.0002324	0.0006548	0.000475	0.0008468	0.0006375	0.00066
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 4/13/2022 4:35 PM 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
Mean	0.00285	0.002894	0.002856	0.002525	0.002888	0.002762
Std. Dev.	0.0006	0.000425	0.000575	0.0009859	0.00045	0.0006998
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 4/13/2022 4:35 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-5	DGWC-8	B-100	B-102D	B-104D	B-106D
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)		0.00048 (J)
1/11/2021				<0.003		
1/12/2021					0.00048 (J)	
3/2/2021	0.0015 (J)	0.00046 (J)				
3/4/2021				<0.003	0.00077 (J)	<0.003
3/8/2021			0.0017 (J)			
9/10/2021	<0.003			<0.003		
9/13/2021		<0.003	<0.003			<0.003
9/14/2021					<0.003	
1/21/2022			<0.003			
1/24/2022	<0.003				0.001 (J)	
1/25/2022		<0.003				<0.003
1/27/2022				<0.003		
Mean	0.002721	0.002831	0.0024	0.00272	0.001208	0.00237
Std. Dev.	0.0007685	0.0006558	0.0008337	0.0006261	0.001019	0.00126
Upper Lim.	0.003	0.003	0.003	0.003	0.001115	0.003
Lower Lim.	0.0015	0.00046	0.0013	0.0016	0.0004656	0.00048



# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-111D	B-56	B-62	B-63	B-77	B-93
1/28/2019				<0.003		
1/30/2019			<0.003			
9/11/2019			<0.003	<0.003		
9/18/2019					<0.003	
10/21/2019			<0.003			
10/22/2019				0.00066 (J)		
10/24/2019					<0.003	
8/13/2020			<0.003		0.00043 (J)	
8/17/2020		<0.003				
8/19/2020						<0.003
9/24/2020			0.00046 (J)		0.00036 (J)	
9/28/2020		<0.003				0.0014 (J)
12/9/2020	<0.003					
1/12/2021	<0.003					
3/3/2021		<0.003				
3/4/2021					0.00063 (J)	
3/5/2021	0.0006 (J)					
3/9/2021						<0.003
3/12/2021			<0.003			
9/9/2021			<0.003			
9/13/2021		<0.003				
9/14/2021	<0.003			<0.003	<0.003	
9/15/2021						<0.003
1/20/2022			<0.003	<0.003	<0.003	
1/24/2022	<0.003					
1/26/2022						<0.003
1/27/2022		0.0011 (J)				
Mean	0.00252	0.00262	0.002683	0.002532	0.001917	0.00268
Std. Dev.	0.001073	0.0008497	0.000898	0.001046	0.001353	0.0007155
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0006	0.0011	0.00046	0.00066	0.00036	0.0014

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:35 PM 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)					
Mean	0.005313	0.004484	0.004712	0.004221	0.003271	0.002259
Std. Dev.	0.002444	0.001456	0.001152	0.00168	0.002034	0.001516
Upper Lim.	0.006969	0.005	0.005	0.005	0.005	0.001941
Lower Lim.	0.003657	0.00063	0.00039	0.0013	0.0008	0.000939

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-22	DGWC-4	DGWC-42	DGWC-47
9/1/2016						0.0037 (J)
9/2/2016		0.0159	<0.005			
9/7/2016					<0.005	
12/7/2016		0.0037 (J)				
12/8/2016			<0.005		<0.005	0.0032 (J)
3/28/2017				0.0005 (J)		
3/29/2017		0.015	<0.005			
3/30/2017	<0.005					
3/31/2017					0.0007 (J)	0.0031 (J)
5/11/2017	<0.005					
5/12/2017				0.0005 (J)		
6/15/2017	<0.005			<0.005		
7/11/2017	<0.005			0.0008 (J)		
7/12/2017		0.0121				
7/13/2017			<0.005		<0.005	0.0018 (J)
10/24/2017	<0.005			<0.005		
10/25/2017		0.0135	<0.005		<0.005	
10/26/2017						0.0016 (J)
2/27/2018	<0.005			<0.005		
2/28/2018		0.0177	0.001 (J)		0.0011 (J)	
3/1/2018						0.0029 (J)
7/11/2018	<0.005	0.0055			<0.005	
7/12/2018			<0.005			0.0023 (J)
11/6/2018	<0.005			<0.005		
11/7/2018		0.0054	<0.005		<0.005	<0.005 (J)
8/27/2019	0.00099 (J)			<0.005		
8/28/2019					<0.005	
8/29/2019		0.0064	<0.005			0.00089 (J)
10/15/2019				<0.005		
10/17/2019	<0.005	0.0094			<0.005	0.0013 (J)
10/18/2019			<0.005			
3/2/2020				<0.005		
3/3/2020	0.0025 (J)		<0.005			
3/4/2020		0.029			<0.005	0.0012 (J)
8/11/2020	<0.005					
8/12/2020				<0.005		0.00081 (J)
8/13/2020		0.014			<0.005	
8/14/2020			<0.005			
9/22/2020		0.0063		<0.005	<0.005	
9/23/2020	<0.005					<0.005
9/24/2020			<0.005			
3/1/2021				<0.005		
3/2/2021	<0.005	0.019				
3/3/2021			<0.005		<0.005	<0.005
9/9/2021	<0.005					
9/10/2021		0.0083	<0.005	<0.005		0.0016 (J)
9/13/2021					<0.005	
1/20/2022	0.0023 (J)		<0.005		<0.005	
1/21/2022		0.015				0.0036 (J)
1/24/2022				0.0011 (J)		
Mean	0.004424	0.01226	0.00475	0.00386	0.004487	0.002687
Std. Dev.	0.001273	0.006572	0.001	0.001961	0.001402	0.001474

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-2	DGWC-20	DGWC-22	DGWC-4	DGWC-42	DGWC-47
Upper Lim.	0.005	0.01654	0.005	0.005	0.005	0.002781
Lower Lim.	0.0025	0.007987	0.001	0.0008	0.0011	0.001442

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:35 PM 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	
Mean	0.003318	0.008007	0.003777	0.02289	0.004175	0.00358
Std. Dev.	0.001988	0.009756	0.001805	0.009597	0.00165	0.001417
Upper Lim.	0.005	0.00948	0.005	0.02913	0.005	0.003739
Lower Lim.	0.0008	0.002765	0.0012	0.01664	0.0017	0.001527

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-109D	B-111D	B-56	B-62	B-63	B-77
1/28/2019					<0.005	
1/30/2019				<0.005		
9/11/2019				<0.005	<0.005	
9/18/2019						<0.005
10/21/2019				<0.005		
10/22/2019					<0.005	
10/24/2019						0.0029 (J)
8/13/2020				<0.005		0.002 (J)
8/17/2020			0.0032 (J)			
9/24/2020				<0.005		0.0025 (J)
9/28/2020			0.0047 (J)			
12/9/2020		<0.005				
1/12/2021		<0.005				
1/13/2021	<0.005					
3/3/2021			0.003 (J)			
3/4/2021						0.002 (J)
3/5/2021		0.0023 (J)				
3/8/2021	<0.005					
3/12/2021				<0.005		
9/9/2021				<0.005		
9/10/2021	<0.005					
9/13/2021			0.0031 (J)			
9/14/2021		0.0029 (J)			<0.005	<0.005
1/20/2022	0.0026 (J)			0.0033 (J)	0.0022 (J)	0.003 (J)
1/24/2022		0.0022 (J)				
1/27/2022			0.0045 (J)			
Mean	0.0044	0.00348	0.0037	0.004787	0.00444	0.0032
Std. Dev.	0.0012	0.001413	0.0008276	0.000601	0.001252	0.00129
Upper Lim.	0.005	0.002994	0.0047	0.005	0.005	0.002995
Lower Lim.	0.0026	0.001984	0.003	0.0033	0.0022	0.00198

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-82	B-83	B-93
9/23/2019	<0.005		
10/21/2019	<0.005	<0.005	
8/14/2020		<0.005	
8/17/2020	<0.005		
8/19/2020			0.0013 (J)
9/25/2020		<0.005	
9/28/2020	<0.005		0.0027 (J)
3/4/2021		<0.005	
3/9/2021			<0.005
3/12/2021	<0.005		
9/14/2021	<0.005		
9/15/2021			<0.005
9/16/2021		<0.005	
1/21/2022		0.0014 (J)	
1/25/2022	0.003 (J)		
1/26/2022			0.002 (J)
Mean	0.004714	0.0044	0.0032
Std. Dev.	0.0007559	0.00147	0.001716
Upper Lim.	0.005	0.005	0.002958
Lower Lim.	0.003	0.0014	0.001042

# Confidence Interval

Constituent: Barium (mg/L)    Analysis Run 4/13/2022 4:35 PM    View: AP 234 Confidence Intervals

Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	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					
Mean	0.02605	0.06043	0.02975	0.02901	0.06048	0.04711
Std. Dev.	0.004606	0.007817	0.008686	0.007107	0.003503	0.004864
Upper Lim.	0.02917	0.06572	0.03386	0.03263	0.06275	0.05027
Lower Lim.	0.02293	0.05513	0.02441	0.02737	0.0582	0.04394



# Confidence Interval

Constituent: Barium (mg/L)    Analysis Run 4/13/2022 4:35 PM    View: AP 234 Confidence Intervals

Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.0214				
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				
Mean	0.04789	0.02374	0.022	0.01263	0.02584	0.03447
Std. Dev.	0.01139	0.002664	0.0009661	0.004637	0.001534	0.004386
Upper Lim.	0.0553	0.02548	0.02263	0.01565	0.0272	0.03732
Lower Lim.	0.04047	0.02201	0.02137	0.009614	0.024	0.03162

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						0.0266 (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
Mean	0.02131	0.03424	0.01809	0.01781	0.01369	0.01746
Std. Dev.	0.004018	0.002708	0.003235	0.002708	0.0009849	0.001208
Upper Lim.	0.02371	0.03608	0.02019	0.01957	0.0155	0.01831
Lower Lim.	0.01873	0.0324	0.01598	0.01604	0.013	0.0166

# Confidence Interval

Constituent: Barium (mg/L)    Analysis Run 4/13/2022 4:35 PM    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	
Mean	0.03147	0.01556	0.0206	0.0695	0.022	0.0228
Std. Dev.	0.008488	0.001002	0.003209	0.00755	0.001414	0.002168
Upper Lim.	0.03722	0.01621	0.02464	0.08756	0.02437	0.02643
Lower Lim.	0.02572	0.01491	0.01515	0.05325	0.01963	0.01917

# Confidence Interval

Constituent: Barium (mg/L)    Analysis Run 4/13/2022 4:35 PM    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						0.03
9/28/2020						0.026
12/9/2020		0.13	0.066		0.027	
12/17/2020	0.022					
1/12/2021					0.027	
1/13/2021				0.06		
3/3/2021						0.028
3/4/2021	0.021	0.12	0.06			
3/5/2021					0.038	
3/8/2021				0.056		
9/10/2021				0.022		
9/13/2021	0.02	0.087				0.026
9/14/2021			0.06		0.043	
1/20/2022				0.047		
1/24/2022		0.092	0.056		0.038	
1/25/2022	0.02					
1/27/2022						0.03
Mean	0.02075	0.1073	0.0605	0.04625	0.0346	0.028
Std. Dev.	0.0009574	0.021	0.004123	0.01706	0.007232	0.002
Upper Lim.	0.02292	0.1549	0.06986	0.08497	0.04672	0.03135
Lower Lim.	0.01858	0.05958	0.05114	0.007526	0.02248	0.02465

# Confidence Interval

Constituent: Barium (mg/L)    Analysis Run 4/13/2022 4:35 PM    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		0.028				
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					0.024	
9/24/2020	0.025			0.12		
9/25/2020						0.027
9/28/2020					0.023	
3/4/2021				0.11		0.032
3/12/2021	0.027					
9/9/2021	0.021					
9/14/2021		0.026	0.018	0.12	0.022	
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	
Mean	0.02338	0.0232	0.018	0.1109	0.026	0.03383
Std. Dev.	0.003159	0.003564	0.001871	0.01455	0.003742	0.01143
Upper Lim.	0.02672	0.02917	0.02113	0.1281	0.03114	0.04907
Lower Lim.	0.02003	0.01723	0.01487	0.09357	0.02086	0.02034

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-88	B-93
8/17/2020	0.022	
8/19/2020		0.018
9/25/2020	0.021	
9/28/2020		0.017
3/5/2021	0.022	
3/9/2021		0.016 (J)
9/13/2021	0.016	
9/15/2021		0.016
1/26/2022		0.021
1/27/2022	0.018	
Mean	0.0198	0.0176
Std. Dev.	0.002683	0.002074
Upper Lim.	0.0243	0.02107
Lower Lim.	0.0153	0.01413

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:35 PM 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					
Mean	0.007553	0.000476	0.0004005	0.0004967	0.0006111	0.0005738
Std. Dev.	0.002439	0.0007205	0.0006832	0.0007238	0.0006494	6.592E-05
Upper Lim.	0.009206	0.0005	0.00049	0.003	0.003	0.0006166
Lower Lim.	0.005901	0.00013	0.00016	7E-05	0.00022	0.0005309

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:35 PM 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					
Mean	0.001906	0.003881	0.0003625	0.0003613	0.0006081	0.0004213
Std. Dev.	0.0004809	0.002153	0.0007092	0.0007093	0.0006451	0.0007196
Upper Lim.	0.0021	0.005282	0.0002	0.0002	0.0005	0.00033
Lower Lim.	0.0017	0.00248	0.00015	0.00014	0.00038	0.00019



# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016					0.0018 (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
Mean	0.002313	0.01086	0.008288	0.007507	0.00236	0.005413
Std. Dev.	0.0006407	0.002711	0.001272	0.001712	0.00108	0.0006879
Upper Lim.	0.0027	0.01262	0.009115	0.008667	0.002987	0.00586
Lower Lim.	0.002043	0.009092	0.00746	0.006346	0.001628	0.004965

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-106D	B-107D
8/17/2020	0.0004 (J)					
9/25/2020	0.00035 (J)					
12/9/2020				0.0013 (J)		<0.0005
12/17/2020			0.0014 (J)		0.00012 (J)	
1/11/2021			0.0013 (J)			
1/12/2021		6.6E-05 (J)		0.0015 (J)		
3/4/2021			0.0012	0.0015	0.00013 (J)	5E-05 (J)
3/5/2021		4.7E-05 (J)				
3/8/2021	0.00046 (J)					
9/10/2021			0.0011			
9/13/2021	0.00053	6.7E-05 (J)			0.00013 (J)	<0.0005
9/14/2021				0.0011		
1/21/2022	0.00053					
1/24/2022				0.0012		<0.0005
1/25/2022					0.00011 (J)	
1/26/2022		7.9E-05 (J)				
1/27/2022			0.0011			
Mean	0.000454	6.475E-05	0.00122	0.00132	0.0001225	0.0003875
Std. Dev.	7.956E-05	1.323E-05	0.0001304	0.0001789	9.574E-06	0.000225
Upper Lim.	0.0005873	9.478E-05	0.001438	0.00162	0.0001442	0.0005
Lower Lim.	0.0003207	3.472E-05	0.001002	0.00102	0.0001008	5E-05

# Confidence Interval

Constituent: Beryllium (mg/L)    Analysis Run 4/13/2022 4:35 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-109D	B-56	B-62	B-63	B-77	B-82
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)		
9/18/2019					0.00011 (J)	
9/23/2019						0.0015 (J)
10/21/2019			7.8E-05 (J)			0.0011 (J)
10/22/2019				0.0003 (J)		
10/24/2019					<0.0005	
8/13/2020			0.00011 (J)		0.00014 (J)	
8/17/2020		0.0013 (J)				0.0014 (J)
9/24/2020			0.00013 (J)		5.3E-05 (J)	
9/28/2020		0.0012 (J)				0.0015 (J)
1/13/2021	5.9E-05 (J)					
3/3/2021		0.0011				
3/4/2021					5.7E-05 (J)	
3/8/2021	7.9E-05 (J)					
3/12/2021			<0.0005			
9/9/2021			0.00014 (J)			
9/10/2021	<0.0005					
9/13/2021		0.0012				
9/14/2021				0.00042 (J)	<0.0005	0.0017
1/20/2022	7.1E-05 (J)		0.00015 (J)	0.00034 (J)	<0.0005	
1/25/2022						0.0021
1/27/2022		0.0012				
Mean	0.0001773	0.0012	0.000202	0.0004	0.0002657	0.00155
Std. Dev.	0.0002153	7.071E-05	0.0001705	7.594E-05	0.0002212	0.0003332
Upper Lim.	0.0005	0.001318	0.0005	0.0004902	0.0005	0.002008
Lower Lim.	5.9E-05	0.001082	7.8E-05	0.0003098	5.3E-05	0.001092

# Confidence Interval

Constituent: Beryllium (mg/L)    Analysis Run 4/13/2022 4:35 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-83	B-88	B-92	B-93	B-97	B-98
10/21/2019	0.00039 (J)					
12/18/2019			0.022			
12/19/2019				0.0069		
2/17/2020					<0.0005	<0.0005
2/27/2020					0.0019 (J)	<0.0005
8/14/2020	0.0007 (J)					
8/17/2020		0.0014 (J)				
8/19/2020				0.015		
9/25/2020	0.00028 (J)	0.00063 (J)				
9/28/2020				0.015		
3/4/2021	0.00037 (J)					
3/5/2021		0.005				
3/9/2021			0.017	0.017	0.0019	
3/15/2021						<0.0005
9/13/2021		0.001				
9/15/2021			0.014	0.015	0.0016	0.00087
9/16/2021	0.00028 (J)					
1/21/2022	0.00039 (J)					
1/26/2022			0.018	0.017	0.0017	6.8E-05 (J)
1/27/2022		0.0019				
Mean	0.0004017	0.001986	0.01775	0.01432	0.00152	0.0004876
Std. Dev.	0.0001548	0.00175	0.003304	0.003763	0.0005848	0.0002841
Upper Lim.	0.0006048	0.005069	0.02525	0.01753	0.002084	0.00087
Lower Lim.	0.0002408	0.0001483	0.01025	0.01058	0.0003761	6.8E-05

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:35 PM 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					
Mean	0.000988	0.0004047	0.0004006	0.000452	0.0004331	0.0002969
Std. Dev.	0.0002814	0.0001639	0.0001874	0.0001287	0.0002304	8.784E-05
Upper Lim.	0.001179	0.0005	0.0003402	0.0005	0.001	0.00033
Lower Lim.	0.0007973	0.00016	0.0002276	0.0002	0.00012	0.00023

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:35 PM 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)					
Mean	0.00042	0.000375	0.002031	0.0005981	0.0005744	0.0002856
Std. Dev.	0.0001609	0.0002281	0.0004207	0.0001973	0.000177	0.0002091
Upper Lim.	0.00041	0.000281	0.002305	0.000639	0.0006895	0.0003
Lower Lim.	0.00034	0.0001339	0.001758	0.0003517	0.0004592	0.00018

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:35 PM 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
Mean	0.0007367	0.0007956	0.001725	0.003488	0.0006487	0.0022
Std. Dev.	0.0001628	0.0005496	0.0006678	0.001632	0.0002703	0.0004071
Upper Lim.	0.000847	0.001058	0.00216	0.0042	0.0008318	0.002476
Lower Lim.	0.0006264	0.0004581	0.00129	0.0028	0.0004655	0.001924

# Confidence Interval

Constituent: Cadmium (mg/L)    Analysis Run 4/13/2022 4:35 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-9	B-100	B-101D	B-102D	B-106D	B-56
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)				0.00029 (J)
9/22/2020	0.00059 (J)					
9/25/2020		0.00027 (J)				
9/28/2020						0.00024 (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					
3/3/2021						0.00026 (J)
3/4/2021				0.00081	0.00021 (J)	
3/5/2021			<0.0005			
3/8/2021		0.00027 (J)				
9/10/2021	0.00053			0.00083		
9/13/2021		0.00029 (J)	<0.0005		0.00024 (J)	0.00028 (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		0.00025 (J)
Mean	0.0005925	0.000402	0.0004025	0.000804	0.0001925	0.000264
Std. Dev.	0.0001326	0.0001718	0.000195	8.649E-05	5.123E-05	2.074E-05
Upper Lim.	0.0006618	0.00059	0.0005	0.0009489	0.0003088	0.0002987
Lower Lim.	0.0005096	0.00027	0.00011	0.0006591	7.618E-05	0.0002293



# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

	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		0.00058 (J)		
8/19/2020				0.00077 (J)
9/25/2020			0.00026 (J)	
9/28/2020		0.00066 (J)		0.00074 (J)
3/4/2021			0.00032 (J)	
3/9/2021				0.00075 (J)
9/14/2021	0.00025 (J)	0.0007		
9/15/2021				0.00088
9/16/2021			0.0003 (J)	
1/20/2022	<0.0005			
1/21/2022			0.0003 (J)	
1/25/2022		0.00072		
1/26/2022				0.00079
Mean	0.000378	0.000575	0.0003267	0.000786
Std. Dev.	0.0001715	0.0001502	5.428E-05	5.595E-05
Upper Lim.	0.0005	0.0007813	0.0004012	0.0008797
Lower Lim.	0.00014	0.0003687	0.0002521	0.0006923

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:35 PM 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)					
Mean	0.00224	0.003826	0.004525	0.003859	0.004459	0.003037
Std. Dev.	0.002024	0.002015	0.00134	0.001959	0.00232	0.0008366
Upper Lim.	0.005	0.005	0.005	0.005	0.01	0.0035
Lower Lim.	0.00078	0.0006	0.00099	0.00074	0.00058	0.0025

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:35 PM 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)					
Mean	0.003387	0.003323	0.003381	0.003434	0.004762	0.002363
Std. Dev.	0.001958	0.002237	0.002329	0.002117	0.00095	0.002124
Upper Lim.	0.0031	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0024	0.0005	0.0016	0.0005	0.0012	0.0005

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:35 PM 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
Mean	0.0047	0.003202	0.004731	0.004444	0.004697	0.003498
Std. Dev.	0.001162	0.002139	0.001075	0.001521	0.001175	0.001973
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0005	0.0005	0.0007	0.0007	0.00045	0.00086

# Confidence Interval

Constituent: Chromium (mg/L)    Analysis Run 4/13/2022 4:35 PM    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)
Mean	0.003549	0.003302	0.0041	0.00422	0.003902	0.002678
Std. Dev.	0.002106	0.002329	0.0018	0.001744	0.002195	0.002145
Upper Lim.	0.0057	0.005	0.005	0.005	0.005	0.001524
Lower Lim.	0.00059	0.00057	0.0014	0.0011	0.00061	0.0003348

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:35 PM 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
Mean	0.004497	0.004128	0.00278	0.00435	0.00385	0.00279
Std. Dev.	0.001421	0.00195	0.00213	0.001592	0.001381	0.00204
Upper Lim.	0.005	0.005	0.005	0.005	0.005747	0.00197
Lower Lim.	0.00098	0.00064	0.00068	0.0011	0.001953	0.0007556

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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)
Mean	0.002466
Std. Dev.	0.002322
Upper Lim.	0.001195
Lower Lim.	0.0004647

# Confidence Interval

Constituent: Cobalt (mg/L)    Analysis Run 4/13/2022 4:35 PM    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					
Mean	0.1501	0.001482	0.008706	0.002085	0.003519	0.02287
Std. Dev.	0.04897	0.0008885	0.009703	0.0008588	0.00577	0.006278
Upper Lim.	0.2	0.0025	0.013	0.0025	0.0028	0.02676
Lower Lim.	0.086	0.0006	0.0021	0.0005	0.0016	0.02009



# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:35 PM 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					
Mean	0.05145	0.01676	0.5821	0.008556	0.008469	0.001752
Std. Dev.	0.002973	0.01166	0.1636	0.002085	0.002183	0.001348
Upper Lim.	0.05338	0.0284	0.6741	0.009705	0.009815	0.0025
Lower Lim.	0.04952	0.0055	0.4755	0.008358	0.007486	0.00039

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:35 PM 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
Mean	0.002013	0.02929	0.3144	0.4475	0.02775	0.06283
Std. Dev.	0.0008717	0.02045	0.09666	0.08036	0.01072	0.03209
Upper Lim.	0.0021	0.0426	0.3773	0.4998	0.04	0.08457
Lower Lim.	0.0015	0.01599	0.2515	0.3952	0.02	0.04108

# Confidence Interval

Constituent: Cobalt (mg/L)    Analysis Run 4/13/2022 4:35 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-9	B-100	B-101D	B-102D	B-106D	B-107D
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						0.0017 (J)
12/17/2020				0.014	0.00087 (J)	
1/11/2021				0.015		
1/12/2021			0.0034 (J)			
3/2/2021	0.18					
3/4/2021				0.014	0.0007 (J)	0.0012 (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)	0.00083 (J)
1/21/2022		0.034				
1/24/2022						0.00088 (J)
1/25/2022					<0.005	
1/26/2022	0.22		0.0028 (J)			
1/27/2022				0.014		
Mean	0.1754	0.05457	0.002875	0.014	0.001157	0.001153
Std. Dev.	0.04258	0.02716	0.0004573	0.0007071	0.0009039	0.0004001
Upper Lim.	0.2031	0.087	0.003913	0.01518	0.001021	0.002061
Lower Lim.	0.1476	0.029	0.001837	0.01282	0.0004466	0.0002441

# Confidence Interval

Constituent: Cobalt (mg/L)    Analysis Run 4/13/2022 4:35 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-111D	B-56	B-62	B-63	B-66	B-77
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)
10/21/2019			0.00031 (J)		0.0074	
10/22/2019				0.046		
10/24/2019						0.0021 (J)
8/13/2020			<0.005			0.0011 (J)
8/17/2020		0.042				
9/24/2020			<0.005			0.0004 (J)
9/28/2020		0.042				
12/9/2020	0.00076 (J)					
1/12/2021	0.0007 (J)					
3/3/2021		0.05				
3/4/2021						0.0017 (J)
3/5/2021	0.00052 (J)					
3/12/2021			<0.005	0.046	0.01	
9/9/2021			<0.005			
9/13/2021		0.047				
9/14/2021	<0.005			0.037	0.012	<0.005
1/20/2022			<0.005	0.039		<0.005
1/24/2022	0.00041 (J)					
1/25/2022					0.013	
1/27/2022		0.052				
Mean	0.000978	0.0466	0.001951	0.044	0.008483	0.001914
Std. Dev.	0.0008622	0.004561	0.001016	0.005727	0.003955	0.0009245
Upper Lim.	0.0008753	0.05424	0.0025	0.05187	0.013	0.002764
Lower Lim.	0.0003847	0.03896	0.0003	0.03613	0.004798	0.0005955

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-82	B-83	B-88	B-93	B-98
9/23/2019	0.0038 (J)				
10/21/2019	0.0089	0.018			
11/22/2019			0.018 (J)		
12/19/2019				0.066	
2/17/2020					<0.005
8/14/2020		0.021			
8/17/2020	0.0028 (J)		0.0031 (J)		
8/19/2020				0.068	
9/25/2020		0.0073	0.0015 (J)		
9/28/2020	0.0053			0.064	
3/4/2021		0.0099			
3/5/2021			0.022		
3/9/2021				0.061	
3/12/2021	0.0021 (J)				
3/15/2021					<0.005
9/13/2021			0.0018 (J)		
9/14/2021	0.0015 (J)				
9/15/2021				0.062	0.0048 (J)
9/16/2021		0.011			
1/21/2022		0.011			
1/25/2022	0.0039 (J)				
1/26/2022				0.064	<0.005
1/27/2022			0.0038 (J)		
Mean	0.004043	0.01303	0.008367	0.06417	0.003075
Std. Dev.	0.002485	0.005274	0.009138	0.002563	0.00115
Upper Lim.	0.006994	0.02028	0.02345	0.06769	0.0048
Lower Lim.	0.001092	0.005788	0.000922	0.06065	0.0025

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	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 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		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 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						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 4/13/2022 4:35 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-101D	B-104D	B-106D	B-107D
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)					
9/22/2020		1.15 (U)				
9/23/2020	0.8 (U)					
12/9/2020				15.2		1.49
12/17/2020					0.952 (U)	
1/12/2021			1.91	17		
3/2/2021	0.751 (U)	1.29 (U)				
3/4/2021				14.5	0.681 (U)	2.14
3/5/2021			2.17			
9/10/2021		1.28				
9/13/2021	0.916 (U)		1.8		0.625 (U)	0.813 (U)
9/14/2021				9.6		
1/24/2022				11.9		1.14 (U)
1/25/2022	0.356 (U)				0.454 (U)	
1/26/2022		0.789 (U)	1.21			
Mean	0.6412	1.171	1.773	13.64	0.678	1.396
Std. Dev.	0.2687	0.3608	0.4058	2.907	0.2066	0.568
Upper Lim.	0.816	1.405	2.694	18.51	1.147	2.685
Lower Lim.	0.4664	0.9357	0.8511	8.768	0.2089	0.1062

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-108D	B-109D	B-111D	B-56	B-62	B-63
1/28/2019						2.14 (U)
1/30/2019					1.97 (U)	
10/21/2019					1.82	
10/22/2019						1.28 (U)
8/13/2020					1.63	
8/17/2020				1.15 (U)		
9/24/2020					1.28 (U)	
9/28/2020				1.39		
12/9/2020	1.31 (U)		12.3			
1/12/2021			9.63			
1/13/2021		11.8				
3/3/2021				1.01 (U)		
3/4/2021	2.02					
3/5/2021			9.05			
3/8/2021		12.1				
3/12/2021					1.18 (U)	
9/9/2021					1.7	
9/10/2021		9.45				
9/13/2021				0.854 (U)		
9/14/2021	0.917 (U)		4.39			1.68
1/20/2022		16.2			1.71	0.846 (U)
1/24/2022	0.812 (U)		5.68			
1/27/2022				0.831 (U)		
Mean	1.265	12.39	8.21	1.047	1.613	1.487
Std. Dev.	0.5472	2.804	3.18	0.231	0.2846	0.553
Upper Lim.	2.507	18.75	13.54	1.434	1.951	2.742
Lower Lim.	0.02236	6.021	2.882	0.6598	1.275	0.231

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

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	B-82	B-93
10/21/2019	0.63 (U)	
8/17/2020	0.662 (U)	
8/19/2020		1.19 (U)
9/28/2020	0.747 (U)	1.54
3/9/2021		0.786 (U)
9/14/2021	1.03 (U)	
9/15/2021		1.84
1/25/2022	0.33 (U)	
1/26/2022		0.758 (U)
Mean	0.6798	1.223
Std. Dev.	0.2512	0.4716
Upper Lim.	1.101	2.013
Lower Lim.	0.2589	0.4326

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	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					
Mean	1.616	0.08163	0.1549	0.1511	0.08671	0.1051
Std. Dev.	0.3859	0.02569	0.1411	0.1082	0.02582	0.04225
Upper Lim.	1.858	0.1	0.2	0.203	0.1	0.11
Lower Lim.	1.374	0.052	0.085	0.0833	0.06	0.079

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.75				
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	<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				
Mean	0.1978	0.3588	0.1404	0.7118	0.1066	0.1174
Std. Dev.	0.1524	0.3073	0.1539	0.4356	0.06454	0.06341
Upper Lim.	0.219	0.4699	0.28	0.9847	0.14	0.12
Lower Lim.	0.08606	0.1718	0.053	0.4388	0.079	0.09

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						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
Mean	0.1802	0.1342	0.09294	0.82	0.8824	0.5431

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
Std. Dev.	0.1523	0.1722	0.02114	0.4704	0.437	0.4512
Upper Lim.	0.2156	0.17	0.1	1.115	1.156	0.6778
Lower Lim.	0.09287	0.082	0.06	0.5252	0.6086	0.2217



# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9	B-101D	B-102D	B-104D	B-106D
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)					
9/22/2020		0.99				
9/23/2020	<0.1					
12/9/2020					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	
3/2/2021	0.059 (J)	0.93				
3/4/2021				0.11	0.43	0.055 (J)
3/5/2021			0.053 (J)			
9/10/2021		2		0.083 (J)		
9/13/2021	0.069 (J)		0.051 (J)			0.052 (J)
9/14/2021					0.5	
1/24/2022					0.28	
1/25/2022	<0.1					<0.1
1/26/2022		1.2	<0.1			
1/27/2022				0.062 (J)		
Mean	0.2751	1.179	0.064	0.0822	0.38	0.06475
Std. Dev.	0.2307	0.3162	0.02401	0.01746	0.08631	0.02354
Upper Lim.	0.355	1.378	0.1	0.1115	0.5246	0.1
Lower Lim.	0.09666	0.9813	0.051	0.05295	0.2354	0.052

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-109D	B-111D	B-56	B-62	B-77	B-82
1/30/2019				0.43		
10/21/2019				0.23 (J)		0.2 (J)
10/24/2019					0.096 (J)	
8/13/2020				0.11	<0.1	
8/17/2020			0.19			<0.1
9/24/2020				0.093 (J)	<0.1	
9/28/2020			0.098 (J)			<0.1
12/9/2020		0.33				
1/12/2021		0.32				
1/13/2021	0.17					
3/3/2021			0.34			
3/4/2021					<0.1	
3/5/2021		0.51				
3/8/2021	0.14					
3/12/2021				0.11		
9/9/2021				0.14		
9/10/2021	0.15					
9/13/2021			0.2			
9/14/2021		0.57			0.078 (J)	0.052 (J)
1/20/2022	0.11			0.099 (J)	<0.1	
1/24/2022		0.38				
1/25/2022						<0.1
1/27/2022			0.21			
Mean	0.1425	0.422	0.2076	0.1731	0.09567	0.1104
Std. Dev.	0.025	0.1121	0.08648	0.1226	0.008802	0.05423
Upper Lim.	0.1993	0.6099	0.3525	0.43	0.1	0.2
Lower Lim.	0.08574	0.2341	0.06269	0.093	0.078	0.052

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-83	B-93
10/21/2019	0.13 (J)	
8/14/2020	0.05 (J)	
8/19/2020		0.32
9/25/2020	<0.1	
9/28/2020		0.3
3/4/2021	0.071 (J)	
3/9/2021		0.34
9/15/2021		0.34
9/16/2021	0.066 (J)	
1/21/2022	<0.1	
1/26/2022		0.41
Mean	0.08617	0.342
Std. Dev.	0.02915	0.04147
Upper Lim.	0.11	0.4115
Lower Lim.	0.03719	0.2725

# Confidence Interval

Constituent: Lead (mg/L)    Analysis Run 4/13/2022 4:35 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	<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					
Mean	0.0006521	0.0006999	0.0008947	0.0008865	0.0008264	0.0007338
Std. Dev.	0.0004424	0.0004397	0.0002972	0.0003001	0.0003733	0.0004393
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 4/13/2022 4:35 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-23
9/1/2016		<0.001				
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				
Mean	0.0006121	0.0007243	0.0005459	0.0007479	0.0006416	0.0009416
Std. Dev.	0.0004549	0.0004251	0.0004693	0.0003629	0.0004258	0.0002335
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	9E-05	7E-05	8.6E-05	0.00015	0.00014	6.6E-05

# Confidence Interval

Constituent: Lead (mg/L)    Analysis Run 4/13/2022 4:35 PM    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
Mean	0.0007646	0.0008263	0.001076	0.001629	0.0006252	0.0006521
Std. Dev.	0.0004051	0.001188	0.001068	0.001139	0.0006613	0.0004097
Upper Lim.	0.001	0.0004511	0.001	0.0022	0.001	0.001
Lower Lim.	0.00012	0.0001577	0.00053	0.00095	5.1E-05	0.00011

# Confidence Interval

Constituent: Lead (mg/L)    Analysis Run 4/13/2022 4:35 PM    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		
Mean	0.00085	0.0004956	0.0007663	0.0004292	0.0008102	0.000761
Std. Dev.	0.0003235	0.0004626	0.0004675	0.0005211	0.0004244	0.000478
Upper Lim.	0.001	0.0002658	0.001	0.001	0.001	0.001
Lower Lim.	0.00028	7.745E-05	6.5E-05	3.7E-05	5.1E-05	4.4E-05

# Confidence Interval

Constituent: Lead (mg/L)    Analysis Run 4/13/2022 4:35 PM    View: AP 234 Confidence Intervals  
 Plant McDonough    Client: Southern Company    Data: McDonough AP

	B-111D	B-56	B-63	B-82	B-83	B-88
1/28/2019			<0.001			
9/11/2019			4.7E-05 (J)			
9/23/2019				0.00016 (J)		
10/21/2019				<0.001	0.00012 (J)	
10/22/2019			7.3E-05 (J)			
8/14/2020					0.00092 (J)	
8/17/2020		0.00022 (J)		5.9E-05 (J)		0.00081 (J)
9/25/2020					6.5E-05 (J)	0.00035 (J)
9/28/2020		9.1E-05 (J)		0.00011 (J)		
12/9/2020	5.8E-05 (J)					
1/12/2021	5.1E-05 (J)					
3/3/2021		0.0001 (J)				
3/4/2021					0.00017 (J)	
3/5/2021	<0.001					0.012
9/13/2021		<0.001				<0.001
9/14/2021	<0.001		<0.001	<0.001		
9/16/2021					<0.001	
1/20/2022			<0.001			
1/21/2022					<0.001	
1/24/2022	<0.001					
1/25/2022				<0.001		
1/27/2022		<0.001				0.0022
Mean	0.0006218	0.0004822	0.000624	0.0005548	0.0005458	0.003272
Std. Dev.	0.0005179	0.0004754	0.0005149	0.0004887	0.0004704	0.004927
Upper Lim.	0.001	0.0002446	0.001	0.001	0.001	0.01033
Lower Lim.	5.1E-05	6.493E-05	4.7E-05	5.9E-05	6.5E-05	1.383E-05



# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-93
8/19/2020	0.00012 (J)
9/28/2020	0.00012 (J)
3/9/2021	<0.001
9/15/2021	<0.001
1/26/2022	<0.001
Mean	0.000648
Std. Dev.	0.000482
Upper Lim.	0.001
Lower Lim.	0.00012

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	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)					
Mean	0.00538	0.003113	0.01089	0.0048	0.004694	0.006173
Std. Dev.	0.004126	0.003305	0.006559	0.004151	0.002975	0.0008681
Upper Lim.	0.006718	0.0028	0.015	0.0037	0.0044	0.0064
Lower Lim.	0.002851	0.0019	0.0011	0.0029	0.0034	0.0057

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.0034 (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)				
Mean	0.009782	0.003937	0.04749	0.006756	0.006512	0.004737
Std. Dev.	0.006959	0.002958	0.02995	0.005599	0.002288	0.00277
Upper Lim.	0.015	0.0035	0.085	0.012	0.0063	0.0046
Lower Lim.	0.00096	0.003	0.023	0.0021	0.0057	0.0036

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						0.0026 (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)
Mean	0.01111	0.003787	0.01109	0.06552	0.1161	0.006373
Std. Dev.	0.01783	0.003138	0.002172	0.01223	0.015	0.002953
Upper Lim.	0.0118	0.0038	0.01251	0.07348	0.1258	0.00808
Lower Lim.	0.003707	0.0025	0.00968	0.05756	0.1063	0.004375

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:35 PM 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)	
Mean	0.005847	0.02646	0.00214	0.01195	0.0132	0.0376
Std. Dev.	0.002818	0.004347	0.0005225	0.002223	0.001304	0.001517
Upper Lim.	0.006975	0.02929	0.003016	0.017	0.01538	0.04001
Lower Lim.	0.004221	0.02363	0.001264	0.006902	0.01102	0.03494

# Confidence Interval

Constituent: Lithium (mg/L)    Analysis Run 4/13/2022 4:35 PM    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						0.0056 (J)
9/28/2020						0.005 (J)
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)		
3/3/2021						0.0051 (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)		
9/10/2021				0.013 (J)		
9/13/2021	0.0056 (J)	0.014 (J)				0.0055 (J)
9/14/2021			0.015 (J)		0.029 (J)	
1/20/2022				0.014 (J)		
1/24/2022		0.015 (J)	0.014 (J)		0.026 (J)	
1/25/2022	0.0055 (J)					
1/27/2022						0.0061 (J)
Mean	0.005325	0.01525	0.01475	0.01425	0.025	0.00546
Std. Dev.	0.0003594	0.001258	0.0009574	0.001258	0.003808	0.0004393
Upper Lim.	0.006141	0.01811	0.01692	0.01711	0.03138	0.006196
Lower Lim.	0.004509	0.01239	0.01258	0.01139	0.01862	0.004724

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:35 PM 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		<0.03				
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					0.0016 (J)	
9/24/2020	0.0084 (J)			0.00095 (J)		
9/25/2020						0.0018 (J)
9/28/2020					0.001 (J)	
3/4/2021				0.0011 (J)		0.0024 (J)
3/12/2021	0.0087 (J)	0.0066 (J)				
9/9/2021	0.0094 (J)					
9/14/2021		0.0064 (J)	<0.03	<0.03	0.001 (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)	
Mean	0.009375	0.0078	0.01215	0.006021	0.001987	0.002667
Std. Dev.	0.002345	0.00353	0.006382	0.00628	0.001394	0.0009832
Upper Lim.	0.015	0.015	0.015	0.004192	0.004158	0.004017
Lower Lim.	0.0078	0.0062	0.00073	0.0008941	0.0006351	0.001316

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-93
8/19/2020	0.011 (J)
9/28/2020	0.011 (J)
3/9/2021	0.012 (J)
9/15/2021	0.011 (J)
1/26/2022	0.013 (J)
Mean	0.0116
Std. Dev.	0.0008944
Upper Lim.	0.013
Lower Lim.	0.011



# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	7E-05 (J)	5E-05 (J)			5E-05 (J)	
9/1/2016			9E-05 (J)			
9/6/2016				<0.0002		<0.0002
12/6/2016	9E-05 (J)	8E-05 (J)			8E-05 (J)	
12/7/2016			<0.0002	9E-05 (J)		<0.0002
3/29/2017	8E-05 (J)	6E-05 (J)	0.00014 (J)		6E-05 (J)	
3/30/2017				7E-05 (J)		6E-05 (J)
7/12/2017	<0.0002	<0.0002	8E-05 (J)	<0.0002	<0.0002	<0.0002
10/24/2017	<0.0002	<0.0002				
10/25/2017			6E-05 (J)		<0.0002	<0.0002
11/15/2017				<0.0002		
2/27/2018	<0.0002	<0.0002	6E-05 (J)		<0.0002	
2/28/2018				<0.0002		<0.0002
7/11/2018			3.6E-05 (J)		<0.0002	<0.0002
11/6/2018	<0.0002	<0.0002				
11/7/2018			<0.0002	<0.0002	<0.0002	<0.0002
8/27/2019	<0.0002	<0.0002	<0.0002		<0.0002	
8/28/2019				<0.0002		<0.0002
9/17/2019			<0.0002			
10/15/2019	<0.0002	<0.0002	<0.0002			
10/16/2019				<0.0002	<0.0002	
10/17/2019						<0.0002
3/2/2020		<0.0002	<0.0002			
3/3/2020	<0.0002			<0.0002	<0.0002	<0.0002
8/11/2020	<0.0002	<0.0002	<0.0002		<0.0002	
8/12/2020				<0.0002		
8/13/2020						<0.0002
9/22/2020		<0.0002	<0.0002		<0.0002	
9/23/2020				<0.0002		<0.0002
9/24/2020	8.1E-05 (J)					
3/2/2021		<0.0002		<0.0002	<0.0002	<0.0002
3/3/2021			<0.0002			
3/4/2021	<0.0002					
9/9/2021		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/10/2021	<0.0002					
1/24/2022						<0.0002
1/25/2022		<0.0002	<0.0002	<0.0002	<0.0002	
1/26/2022	<0.0002					
Mean	0.0001681	0.0001727	0.0001568	0.000184	0.0001744	0.0001912
Std. Dev.	5.494E-05	5.688E-05	6.349E-05	4.239E-05	5.537E-05	3.5E-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 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		4E-05 (J)				
9/2/2016				<0.0002	6E-05 (J)	5E-05 (J)
9/7/2016	6E-05 (J)					
12/7/2016		5E-05 (J)		8E-05 (J)		
12/8/2016	<0.0002				<0.0002	<0.0002
3/29/2017		9E-05 (J)		8E-05 (J)		0.0001 (J)
3/30/2017	0.00012 (J)		7E-05 (J)		8E-05 (J)	
5/11/2017			8.3E-05 (J)			
6/15/2017			8E-05 (J)			
7/11/2017			<0.0002			
7/12/2017	5E-05 (J)	<0.0002		<0.0002	6E-05 (J)	
7/13/2017						<0.0002
10/24/2017			<0.0002			
10/25/2017	5E-05 (J)	<0.0002		<0.0002	5E-05 (J)	<0.0002
2/27/2018			<0.0002			
2/28/2018	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
7/11/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
7/12/2018						5.5E-05 (J)
11/6/2018			0.00064			
11/7/2018	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
8/27/2019	0.00016 (J)		<0.0002			
8/28/2019		<0.0002				
8/29/2019				<0.0002	<0.0002	<0.0002
10/16/2019		<0.0002				
10/17/2019			<0.0002	<0.0002	<0.0002	
10/18/2019	<0.0002					<0.0002
3/3/2020		<0.0002	<0.0002		<0.0002	<0.0002
3/4/2020	<0.0002			<0.0002		
8/11/2020		<0.0002	<0.0002			
8/13/2020				<0.0002		
8/14/2020	9.8E-05 (J)				<0.0002	<0.0002
9/22/2020		<0.0002		<0.0002		
9/23/2020			<0.0002			
9/24/2020	8.2E-05 (J)				0.00012 (J)	<0.0002
3/2/2021		<0.0002	<0.0002	9E-05 (J)		
3/3/2021	<0.0002				<0.0002	<0.0002
9/9/2021		<0.0002	<0.0002		<0.0002	
9/10/2021				<0.0002		0.00011 (J)
9/13/2021	8.6E-05 (J)					
1/20/2022			<0.0002		<0.0002	<0.0002
1/21/2022				<0.0002		
1/24/2022	<0.0002					
1/25/2022		<0.0002				
Mean	0.0001441	0.0001737	0.0002046	0.0001781	0.0001606	0.0001697
Std. Dev.	6.323E-05	5.726E-05	0.000126	4.708E-05	6.202E-05	5.593E-05
Upper Lim.	0.0002	0.0002	0.00064	0.0002	0.0002	0.0002
Lower Lim.	6E-05	9E-05	8.3E-05	9E-05	8E-05	0.0001

# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-48	DGWC-5	DGWC-8
8/30/2016						9E-05 (J)
8/31/2016					0.00015 (J)	
9/1/2016				<0.0002		
9/7/2016			<0.0002			
12/6/2016					0.00012 (J)	0.0001 (J)
12/8/2016			<0.0002	<0.0002		
3/28/2017		<0.0002			0.00017 (J)	
3/29/2017						0.00012 (J)
3/30/2017	0.0002 (J)			6E-05 (J)		
3/31/2017			4E-05 (J)			
5/12/2017	0.00015 (J)	8.2E-05 (J)				
6/15/2017	0.00019 (J)	8E-05 (J)				
7/11/2017		<0.0002			0.0002 (J)	6E-05 (J)
7/12/2017	0.00012 (J)					
7/13/2017			<0.0002	<0.0002		
10/24/2017		<0.0002				<0.0002
10/25/2017			<0.0002		9E-05 (J)	
10/26/2017	0.00012 (J)			<0.0002		
2/27/2018		<0.0002			9E-05 (J)	4.2E-05 (J)
2/28/2018			<0.0002			
3/1/2018	<0.0002					
3/2/2018				<0.0002		
7/11/2018			<0.0002			
7/12/2018	0.00016 (J)			<0.0002		
11/6/2018		0.00059			0.00055	<0.0002
11/7/2018			<0.0002	<0.0002		
11/8/2018	<0.0002					
8/27/2019		<0.0002			0.00016 (J)	
8/28/2019			<0.0002			<0.0002
8/29/2019	<0.0002			<0.0002		
10/15/2019		<0.0002				
10/16/2019					<0.0002	<0.0002
10/17/2019			<0.0002			
10/18/2019	<0.0002			<0.0002		
3/2/2020		<0.0002			<0.0002	
3/3/2020						<0.0002
3/4/2020	0.00026		<0.0002	<0.0002		
8/12/2020		<0.0002			0.00017 (J)	7.9E-05 (J)
8/13/2020	0.00014 (J)		<0.0002	<0.0002		
9/22/2020		<0.0002	<0.0002		0.0002 (J)	
9/23/2020				<0.0002		<0.0002
9/24/2020	0.0002 (J)					
3/1/2021		<0.0002				
3/2/2021					9.4E-05 (J)	<0.0002
3/3/2021	0.00033		<0.0002	<0.0002		
9/9/2021	0.00011 (J)					
9/10/2021		0.00013 (J)		<0.0002	0.0003	
9/13/2021			<0.0002			<0.0002
1/20/2022	<0.0002		<0.0002			
1/24/2022		0.00022		<0.0002	0.00028	
1/25/2022						<0.0002
Mean	0.0001862	0.0002068	0.00019	0.0001912	0.0001983	0.0001527

# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-23	DGWC-4	DGWC-42	DGWC-48	DGWC-5	DGWC-8
Std. Dev.	5.548E-05	0.000115	4E-05	3.5E-05	0.0001154	6.222E-05
Upper Lim.	0.0001952	0.00022	0.0002	0.0002	0.0002535	0.0002
Lower Lim.	0.000126	0.00013	4E-05	6E-05	0.0001262	7.9E-05

# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/13/2022 4:35 PM 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			
Mean	0.0001851	0.0001775	0.000185	0.0001758	0.00019	0.000185
Std. Dev.	8.525E-05	4.5E-05	3E-05	5.411E-05	2E-05	3E-05
Upper Lim.	0.00021	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 4/13/2022 4:35 PM 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	
Mean	0.0001788	0.000192	0.000185	0.000162	0.0001896
Std. Dev.	4.74E-05	1.789E-05	3.674E-05	5.215E-05	6.626E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002837
Lower Lim.	9.4E-05	0.00016	0.00011	0.0001	6.508E-05

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-13	DGWC-2	DGWC-23	DGWC-4	B-101D	B-104D
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)			
12/9/2020						0.0012 (J)
1/12/2021					0.0022 (J)	<0.01
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)		
9/13/2021				<0.01		
9/14/2021						<0.01
1/20/2022		0.0022 (J)	0.0073 (J)			
1/24/2022				0.0045 (J)		0.00083 (J)
1/25/2022	0.0093 (J)					
1/26/2022				<0.01		
Mean	0.01892	0.004912	0.008888	0.005907	0.00805	0.006406

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-13	DGWC-2	DGWC-23	DGWC-4	B-101D	B-104D
Std. Dev.	0.009349	0.00409	0.003128	0.001745	0.0039	0.004923
Upper Lim.	0.02437	0.01	0.01092	0.007089	0.01	0.01
Lower Lim.	0.01244	0.0018	0.006853	0.004724	0.0022	0.00083



# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-109D	B-111D	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		0.0055 (J)		
1/12/2021		0.0054 (J)		
1/13/2021	0.0022 (J)			
3/5/2021		0.0067 (J)		<0.01
3/8/2021	0.0014 (J)			
9/10/2021	0.0011 (J)			
9/13/2021				<0.01
9/14/2021		0.013	<0.01	
1/20/2022	0.0012 (J)			
1/24/2022		0.0052 (J)		
1/25/2022			<0.01	
1/27/2022				<0.01
Mean	0.001475	0.00716	0.00666	0.00648
Std. Dev.	0.0004992	0.003317	0.004575	0.00482
Upper Lim.	0.002608	0.013	0.01	0.01
Lower Lim.	0.0003417	0.0052	0.0015	0.0012

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:35 PM 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					
Mean	0.03602	0.003994	0.00442	0.004062	0.005112	0.007856
Std. Dev.	0.02171	0.00221	0.002391	0.002277	0.001528	0.002312
Upper Lim.	0.05073	0.005	0.004335	0.01	0.01	0.008991
Lower Lim.	0.02131	0.0017	0.001931	0.0016	0.0018	0.006416

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:35 PM 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)					
Mean	0.007081	0.005062	0.05001	0.004794	0.00476	0.008662
Std. Dev.	0.002521	0.001593	0.02408	0.000825	0.0009295	0.005836

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	DGWC-19	DGWC-2	DGWC-20	DGWC-22	DGWC-4	DGWC-47
Upper Lim.	0.008721	0.0053	0.06568	0.005	0.005	0.01246
Lower Lim.	0.005441	0.0037	0.03434	0.0017	0.0014	0.004865

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:35 PM 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
Mean	0.005769	0.03077	0.004613	0.08729	0.00438	0.004525
Std. Dev.	0.00318	0.04124	0.002068	0.05853	0.001386	0.00095
Upper Lim.	0.006784	0.04184	0.0069	0.1254	0.005	0.005
Lower Lim.	0.0028	0.008956	0.0028	0.0492	0.0019	0.0031

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-104D	B-108D	B-111D	B-56	B-77	B-82
9/18/2019					<0.005	
9/23/2019						<0.005
10/21/2019						0.0016 (J)
10/24/2019					<0.005	
8/13/2020					<0.005	
8/17/2020				0.011		<0.005
9/24/2020					<0.005	
9/28/2020				0.029		0.0021 (J)
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)			0.0017 (J)	
3/5/2021			0.0022 (J)			
9/13/2021				0.011		
9/14/2021	<0.005	<0.005	<0.005		<0.005	<0.005
1/20/2022					<0.005	
1/24/2022	<0.005	<0.005	<0.005			
1/25/2022						0.002 (J)
1/27/2022				0.0066		
Mean	0.00394	0.00415	0.00444	0.01412	0.004529	0.00345
Std. Dev.	0.001545	0.0017	0.001252	0.008641	0.001247	0.001706
Upper Lim.	0.005	0.005	0.005	0.02912	0.005	0.005
Lower Lim.	0.0016	0.0016	0.0022	0.003536	0.0017	0.0016

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-83	B-88
10/21/2019	0.0082 (J)	
8/14/2020	0.015	
8/17/2020		0.0017 (J)
9/25/2020	0.019	0.0033 (J)
3/4/2021	0.024	
3/5/2021		0.0033 (J)
9/13/2021		0.0021 (J)
9/16/2021	0.025	
1/21/2022	0.027	
1/27/2022		<0.005
Mean	0.0197	0.00308
Std. Dev.	0.007137	0.001289
Upper Lim.	0.0295	0.003306
Lower Lim.	0.009895	0.001194

# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/13/2022 4:35 PM 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		<0.001		0.0005 (J)		
9/2/2016					<0.001	<0.001
9/7/2016			<0.001			
12/6/2016	0.0004 (J)					
12/7/2016		<0.001		0.0005 (J)	0.0006 (J)	
12/8/2016			<0.001			<0.001
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	<0.001	<0.001				
2/28/2018			0.00015 (J)	0.00049 (J)	<0.001	<0.001
7/11/2018		<0.001	0.00017 (J)	0.0005 (J)	<0.001	
7/12/2018						<0.001
11/6/2018	<0.001 (J)					
11/7/2018		<0.001	<0.001	<0.001 (J)	<0.001 (J)	<0.001
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)			<0.001
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)	<0.001		0.00059 (J)		
8/13/2020					0.0016 (J)	
8/14/2020			0.00019 (J)			<0.001
9/22/2020		<0.001		0.0005 (J)	0.00055 (J)	
9/24/2020	0.00034 (J)		0.00018 (J)			<0.001
3/2/2021				0.00056 (J)	0.0014 (J)	
3/3/2021		<0.001	0.00017 (J)			<0.001
3/4/2021	0.00042 (J)					
9/9/2021		<0.001		0.00056 (J)		
9/10/2021	0.00027 (J)				0.00052 (J)	<0.001
9/13/2021			<0.001			
1/20/2022						<0.001
1/21/2022					<0.001	
1/24/2022			<0.001			
1/25/2022		<0.001		0.00057 (J)		
1/26/2022	0.00033 (J)					
Mean	0.00048	0.0006275	0.0004356	0.0005456	0.0009456	0.0007084
Std. Dev.	0.0002241	0.0004591	0.0003933	0.0001339	0.0004827	0.0004467
Upper Lim.	0.0006	0.001	0.001	0.00059	0.0009559	0.001
Lower Lim.	0.00034	9E-05	0.00017	0.00049	0.0005248	7E-05



# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/13/2022 4:35 PM 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					<0.001	
9/1/2016			0.0002 (J)	<0.001		
9/7/2016		<0.001				
12/6/2016					<0.001	<0.001
12/8/2016		<0.001	<0.001	<0.001		
3/28/2017	<0.001				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	<0.001					
6/15/2017	<0.001					
7/11/2017	<0.001				<0.001	0.0001 (J)
7/13/2017		9E-05 (J)	0.0002 (J)	8E-05 (J)		
10/24/2017	<0.001					0.0003 (J)
10/25/2017		9E-05 (J)			<0.001	
10/26/2017			0.0003 (J)	9E-05 (J)		
2/27/2018	<0.001				<0.001	0.00033 (J)
2/28/2018		<0.001				
3/1/2018			0.00032 (J)			
3/2/2018				<0.001		
7/11/2018		<0.001				
7/12/2018			0.00031 (J)	<0.001		
11/6/2018	<0.001				<0.001	<0.001 (J)
11/7/2018		<0.001	<0.001 (J)	<0.001		
8/27/2019	<0.001				<0.001	
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		<0.001	0.00025 (J)			
10/18/2019				<0.001		
3/2/2020	<0.001				6.2E-05 (J)	
3/3/2020						0.00023 (J)
3/4/2020		<0.001	0.00021 (J)	6.8E-05 (J)		
8/12/2020	<0.001		0.00018 (J)		<0.001	0.00023 (J)
8/13/2020		<0.001		<0.001		
9/22/2020	<0.001	<0.001			<0.001	
9/23/2020			0.00026 (J)	<0.001		0.0002 (J)
3/1/2021	<0.001					
3/2/2021					<0.001	0.00019 (J)
3/3/2021		<0.001	0.00023 (J)	<0.001		
9/10/2021	<0.001		0.00036 (J)	<0.001	<0.001	
9/13/2021		<0.001				0.00019 (J)
1/20/2022		<0.001				
1/21/2022			0.00028 (J)			
1/24/2022	<0.001			<0.001	<0.001	
1/25/2022						0.00019 (J)
Mean	0.0009382	0.0007712	0.0003469	0.0007129	0.0008227	0.0003753
Std. Dev.	0.0002394	0.0004093	0.0002599	0.0004399	0.0003682	0.0003274
Upper Lim.	0.001	0.001	0.00036	0.001	0.001	0.001
Lower Lim.	7.3E-05	9E-05	0.0002	8E-05	0.0002	0.00019

# Confidence Interval

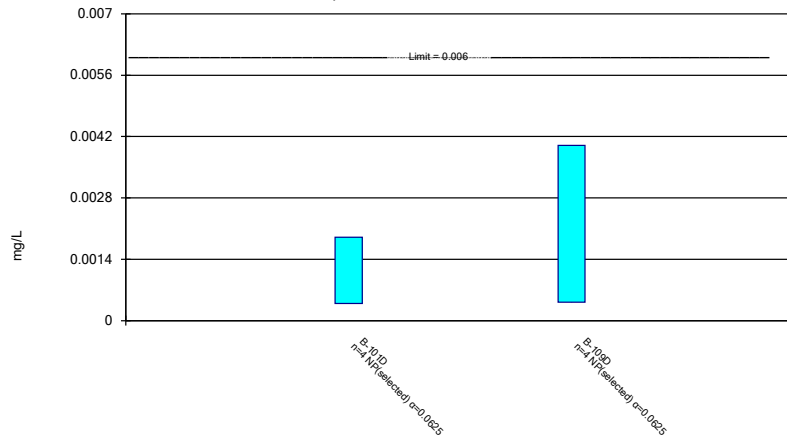
Constituent: Thallium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-9	B-56	B-82	B-83	B-88
8/30/2016	<0.001				
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	<0.001				
11/6/2018	<0.001				
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	<0.001				
8/14/2020				<0.001	
8/17/2020		0.00016 (J)	<0.001		<0.001
9/22/2020	0.00043 (J)				
9/25/2020				<0.001	<0.001
9/28/2020		0.00023 (J)	<0.001		
3/2/2021	<0.001				
3/3/2021		0.00026 (J)			
3/4/2021				<0.001	
3/5/2021					0.0002 (J)
9/10/2021	0.0004 (J)				
9/13/2021		0.00024 (J)			<0.001
9/14/2021			<0.001		
9/16/2021				<0.001	
1/21/2022				<0.001	
1/25/2022			<0.001		
1/26/2022	<0.001				
1/27/2022		0.00032 (J)			<0.001
Mean	0.0007213	0.000242	0.0007015	0.0008453	0.00084
Std. Dev.	0.0002474	5.762E-05	0.0004624	0.0003789	0.0003578
Upper Lim.	0.001	0.0003386	0.001	0.001	0.001
Lower Lim.	0.00043	0.0001454	9.9E-05	7.2E-05	0.0002

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

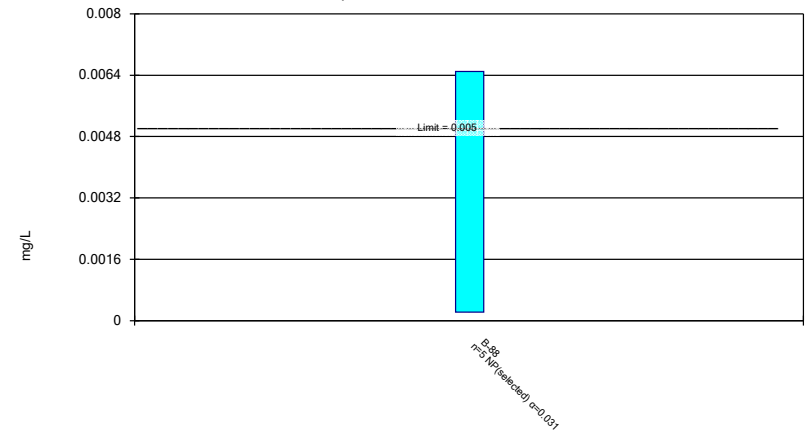


Normality testing disabled.

Constituent: Antimony Analysis Run 4/13/2022 4:33 PM View: AP 234 Confidence Intervals Nonparametri  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

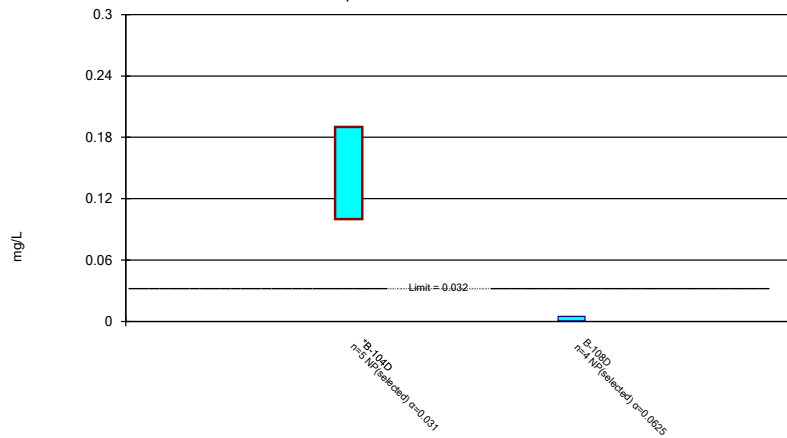


Normality testing disabled.

Constituent: Cadmium Analysis Run 4/13/2022 4:34 PM View: AP 234 Confidence Intervals Nonparametri  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

Compliance limit is exceeded.\*

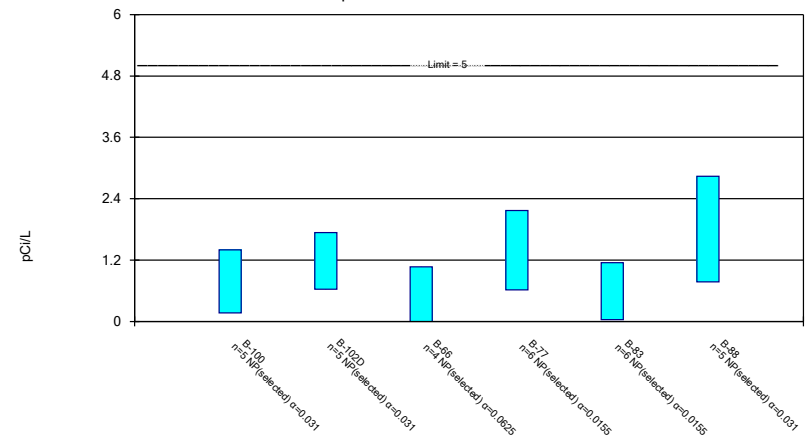


Normality testing disabled.

Constituent: Cobalt Analysis Run 4/13/2022 4:34 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

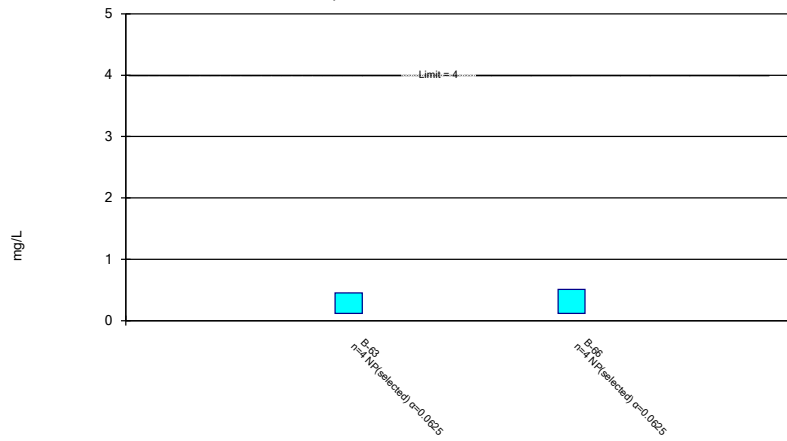


Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:34 PM View: AP 234 Confidence Inte  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

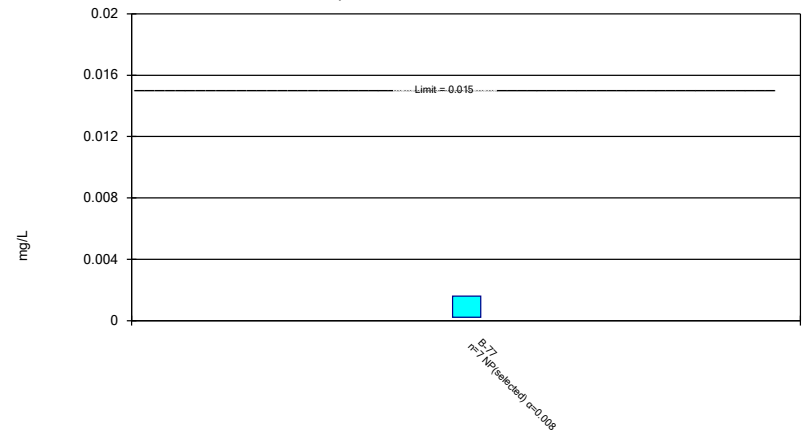


Normality testing disabled.

Constituent: Fluoride, total Analysis Run 4/13/2022 4:34 PM View: AP 234 Confidence Intervals Nonpara  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

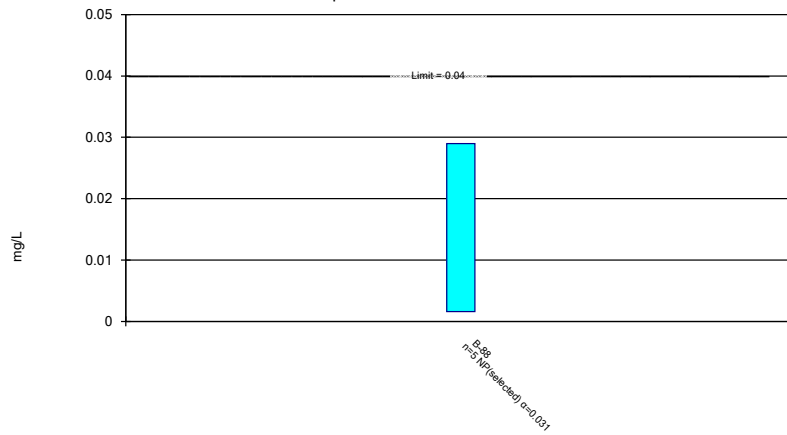


Normality testing disabled.

Constituent: Lead Analysis Run 4/13/2022 4:34 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

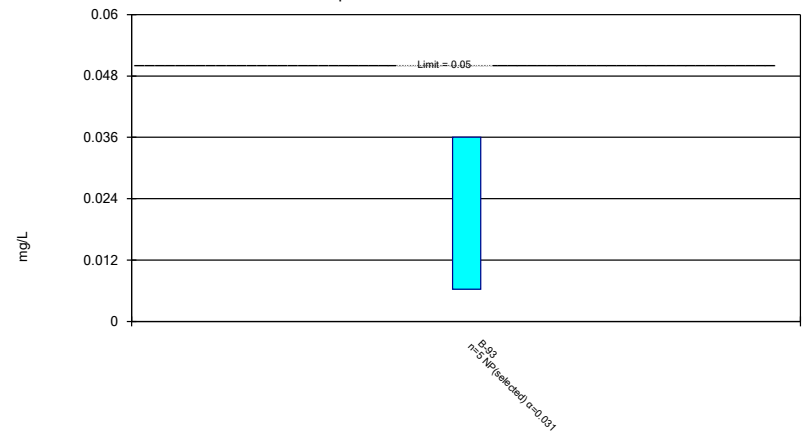


Normality testing disabled.

Constituent: Lithium Analysis Run 4/13/2022 4:34 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

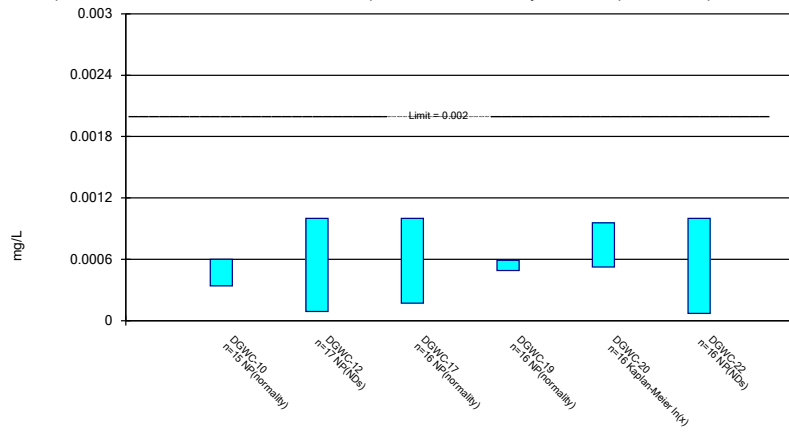


Normality testing disabled.

Constituent: Selenium Analysis Run 4/13/2022 4:34 PM View: AP 234 Confidence Intervals Nonparametri  
Plant McDonough Client: Southern Company Data: McDonough AP

### Parametric and Non-Parametric (NP) Confidence Interval

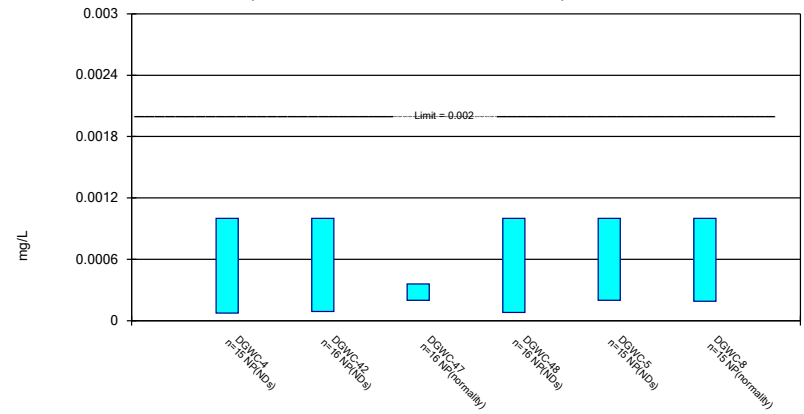
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

### Non-Parametric Confidence Interval

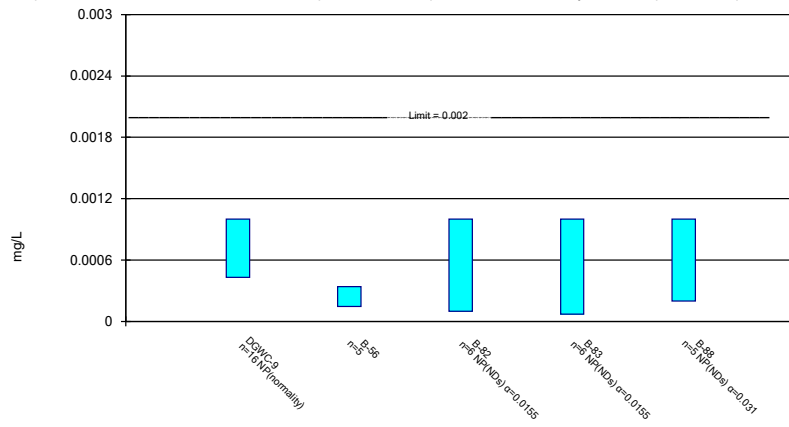
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 4/13/2022 4:32 PM 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 4/13/2022 4:32 PM View: AP 234 Confidence Intervals  
Plant McDonough Client: Southern Company Data: McDonough AP

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-101D	B-109D
1/12/2021	0.00039 (J)	
1/13/2021		0.00042 (J)
3/5/2021	0.0019 (J)	
3/8/2021		0.00084 (J)
9/10/2021		0.004
9/13/2021	0.001 (J)	
1/20/2022		<0.003
1/26/2022	0.00082 (J)	
Mean	0.001028	0.00169
Std. Dev.	0.0006355	0.001603
Upper Lim.	0.0019	0.004
Lower Lim.	0.00039	0.00042

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/13/2022 4:35 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	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
Mean	0.002684
Std. Dev.	0.002458
Upper Lim.	0.0065
Lower Lim.	0.00022

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/13/2022 4:36 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-104D	B-108D
12/9/2020	0.17	0.0048 (J)
1/12/2021	0.19	
3/4/2021	0.19	0.0017 (J)
9/14/2021	0.1	0.0017 (J)
1/24/2022	0.1	0.00061 (J)
Mean	0.15	0.002203
Std. Dev.	0.04637	0.001806
Upper Lim.	0.19	0.0048
Lower Lim.	0.1	0.00061



# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/13/2022 4:36 PM View: AP 234 Confidence Intervals Nonparametric

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-102D	B-66	B-77	B-83	B-88
1/30/2019			0.975 (U)			
10/21/2019			1.07 (U)		0.792 (U)	
10/24/2019				1.87		
8/13/2020				2.17		
8/14/2020					0.95 (U)	
8/17/2020	1.4 (U)					2.47
9/24/2020				0.761 (U)		
9/25/2020	0.799 (U)				0.0359 (U)	0.925 (U)
12/17/2020		1.22 (U)				
1/11/2021		0.635 (U)				
3/4/2021		0.789 (U)		2.16	1.15 (U)	
3/5/2021						2.84
3/8/2021	0.168 (U)					
9/10/2021		1.74				
9/13/2021	0.774 (U)					0.771 (U)
9/14/2021			0.421 (U)	0.617 (U)		
9/16/2021					0.442 (U)	
1/20/2022				0.92		
1/21/2022	0.769 (U)				0.549 (U)	
1/25/2022			0 (U)			
1/27/2022		0.628 (U)				1.18
Mean	0.782	1.002	0.6165	1.416	0.6532	1.637
Std. Dev.	0.4357	0.4775	0.5008	0.7269	0.3977	0.9496
Upper Lim.	1.4	1.74	1.07	2.17	1.15	2.84
Lower Lim.	0.168	0.628	0	0.617	0.0359	0.771

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/13/2022 4:36 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-63	B-66
1/28/2019	0.45	
1/30/2019		0.51
10/21/2019		0.3 (J)
10/22/2019	0.2 (J)	
9/14/2021	0.16	0.22
1/20/2022	0.12	
1/25/2022		0.12
Mean	0.2325	0.2875
Std. Dev.	0.1486	0.1656
Upper Lim.	0.45	0.51
Lower Lim.	0.12	0.12

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/13/2022 4:36 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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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
Mean	0.0007743
Std. Dev.	0.0005154
Upper Lim.	0.0016
Lower Lim.	0.00021

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/13/2022 4:36 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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B-88

8/17/2020	0.006 (J)
9/25/2020	0.0016 (J)
3/5/2021	0.029 (J)
9/13/2021	0.0017 (J)
1/27/2022	0.0066 (J)
Mean	0.00898
Std. Dev.	0.01143
Upper Lim.	0.029
Lower Lim.	0.0016

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/13/2022 4:36 PM View: AP 234 Confidence Intervals Nonparametric  
Plant McDonough Client: Southern Company Data: McDonough AP

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	B-93
8/19/2020	0.018
9/28/2020	0.036
3/9/2021	0.0099 (J)
9/15/2021	0.0076
1/26/2022	0.0063
Mean	0.01556
Std. Dev.	0.0123
Upper Lim.	0.036
Lower Lim.	0.0063

FIGURE I.

# Appendix IV Trend Tests - Confidence Interval Exceedances - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:40 PM

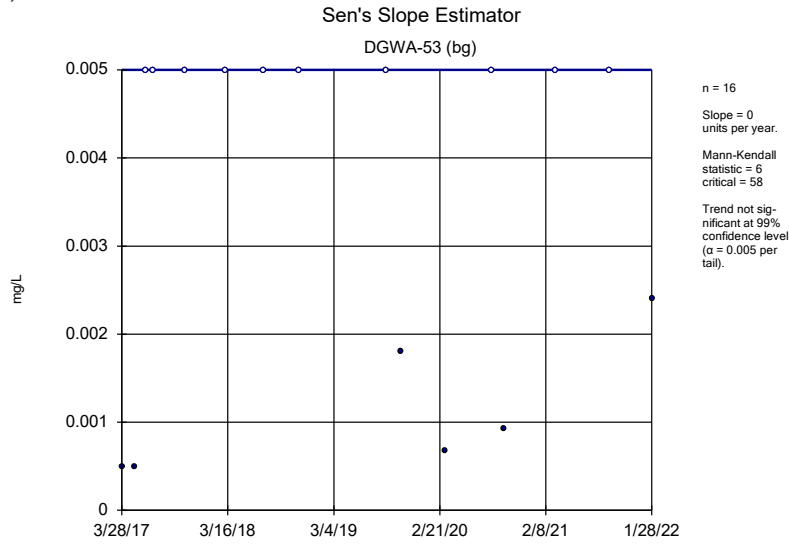
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	DGWA-70A (bg)	-0.0006268	-63	-58	Yes	16	50	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-48	-0.0004126	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-53 (bg)	-0.004889	-80	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-10	-0.02321	-66	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-47	-0.04583	-83	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-48	-0.04264	-102	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-8	-0.01326	-69	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-9	0.02338	78	58	Yes	16	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-53 (bg)	-0.6256	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-47	-0.006075	-72	-58	Yes	16	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-48	-0.006941	-80	-58	Yes	16	0	n/a	n/a	0.01	NP

# Appendix IV Trend Tests - Confidence Interval Exceedances - All Results

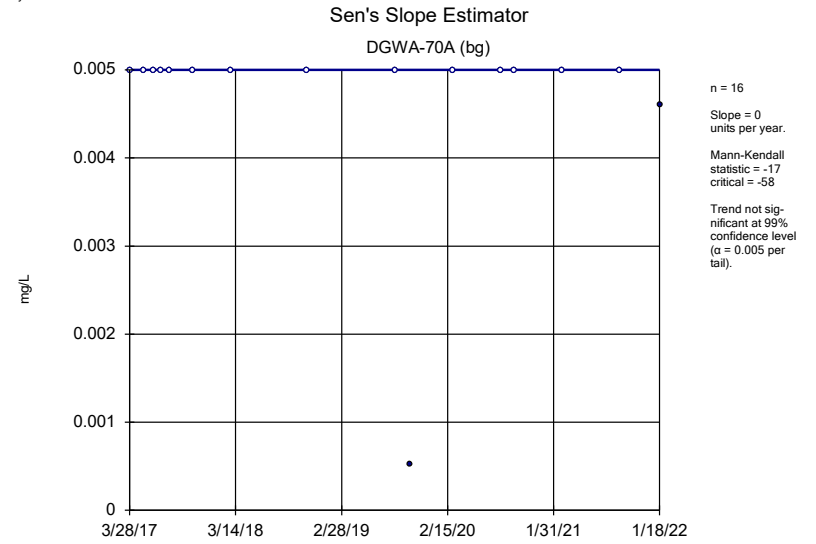
Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:40 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	DGWA-53 (bg)	0	6	58	No	16	62.5	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-70A (bg)	0	-17	-58	No	16	87.5	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-71 (bg)	0	23	53	No	15	80	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWC-9	0.0005672	5	58	No	16	6.25	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-53 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
<b>Beryllium (mg/L)</b>	<b>DGWA-70A (bg)</b>	<b>-0.0006268</b>	<b>-63</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>50</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Beryllium (mg/L)	DGWA-71 (bg)	-0.00001569	-32	-58	No	16	31.25	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-10	0.0006697	31	53	No	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-47	-0.001058	-57	-58	No	16	0	n/a	n/a	0.01	NP
<b>Beryllium (mg/L)</b>	<b>DGWC-48</b>	<b>-0.0004126</b>	<b>-66</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Beryllium (mg/L)	DGWC-5	0.0004175	31	53	No	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-9	0.0001047	23	58	No	16	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-92	-0.002989	-2	-8	No	4	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-93	0.003614	9	14	No	6	0	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-0.004889</b>	<b>-80</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	DGWA-70A (bg)	0	5	58	No	16	50	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-71 (bg)	0	20	53	No	15	66.67	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWC-10</b>	<b>-0.02321</b>	<b>-66</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	DGWC-19	-0.0002359	-17	-58	No	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-20	0.05164	35	58	No	16	0	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWC-47</b>	<b>-0.04583</b>	<b>-83</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-48</b>	<b>-0.04264</b>	<b>-102</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-8</b>	<b>-0.01326</b>	<b>-69</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-9</b>	<b>0.02338</b>	<b>78</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	B-104D	-0.07465	-4	-12	No	5	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-56	0.006064	7	12	No	5	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-63	-0.003301	-8	-14	No	6	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-93	-0.002296	-6	-14	No	6	0	n/a	n/a	0.01	NP
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>DGWA-53 (bg)</b>	<b>-0.6256</b>	<b>-62</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Combined Radium 226 + 228 (pCi/L)	DGWA-70A (bg)	0.04334	12	63	No	17	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-71 (bg)	0.0095	5	58	No	16	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
Combined Radium 226 + 228 (pCi/L)	B-109D	3.172	2	8	No	4	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-53 (bg)	-0.00009951	-11	-58	No	16	6.25	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-70A (bg)	0	18	58	No	16	81.25	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-71 (bg)	-0.0001223	-45	-53	No	15	20	n/a	n/a	0.01	NP
<b>Lithium (mg/L)</b>	<b>DGWC-47</b>	<b>-0.006075</b>	<b>-72</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Lithium (mg/L)</b>	<b>DGWC-48</b>	<b>-0.006941</b>	<b>-80</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

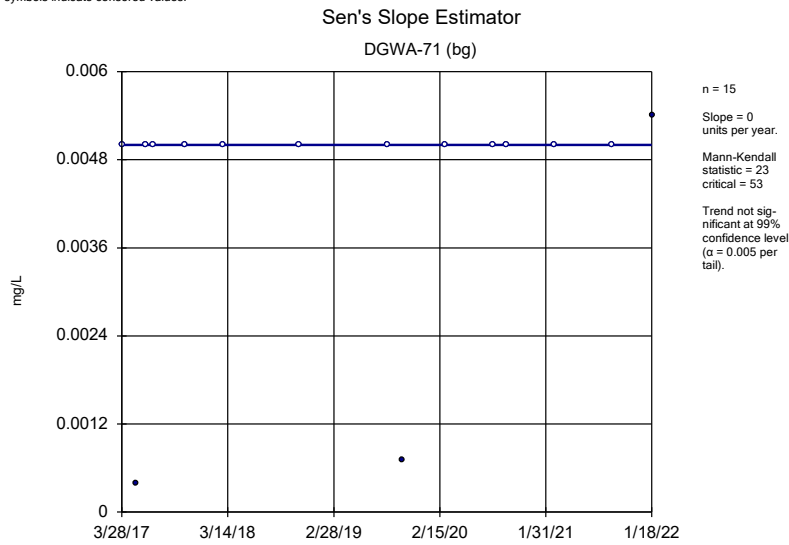




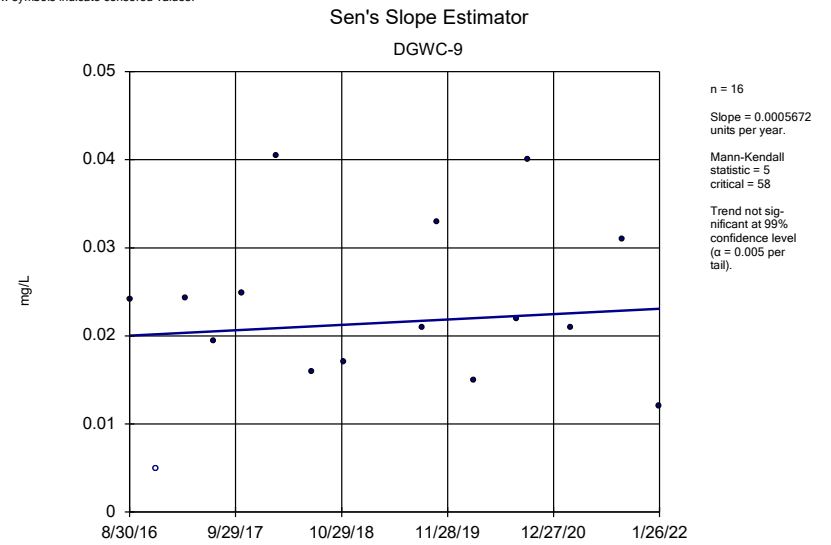
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Plant McDonough Client: Southern Company Data: McDonough AP



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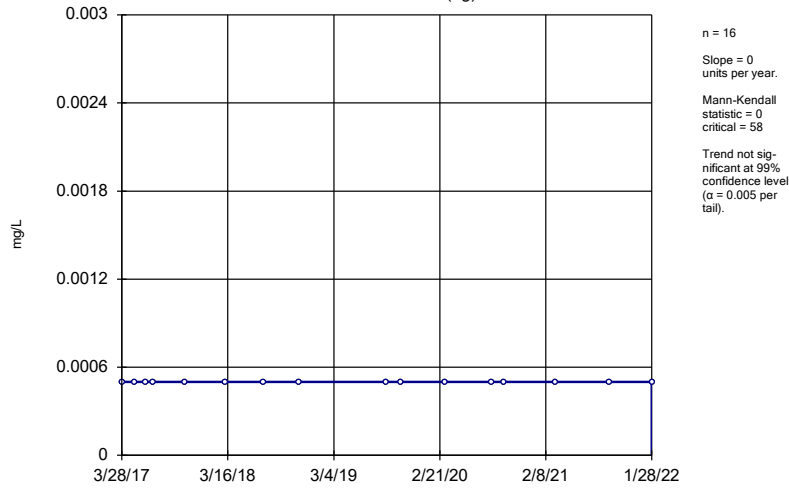


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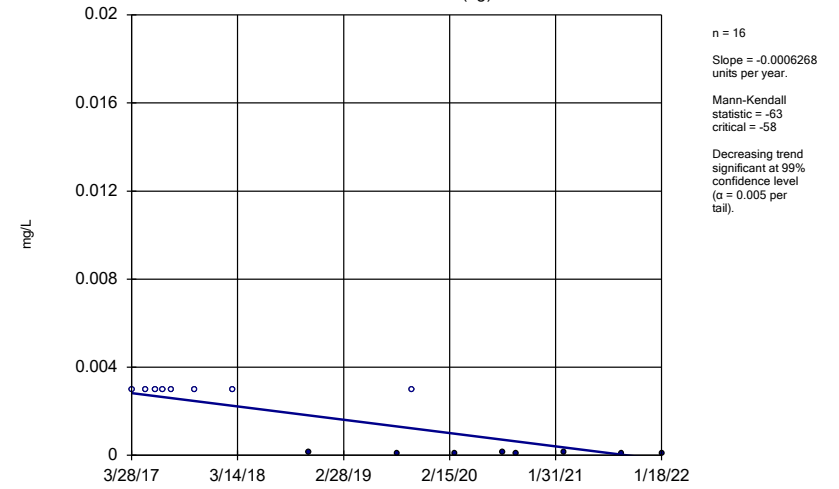
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Sen's Slope Estimator  
DGWA-53 (bg)



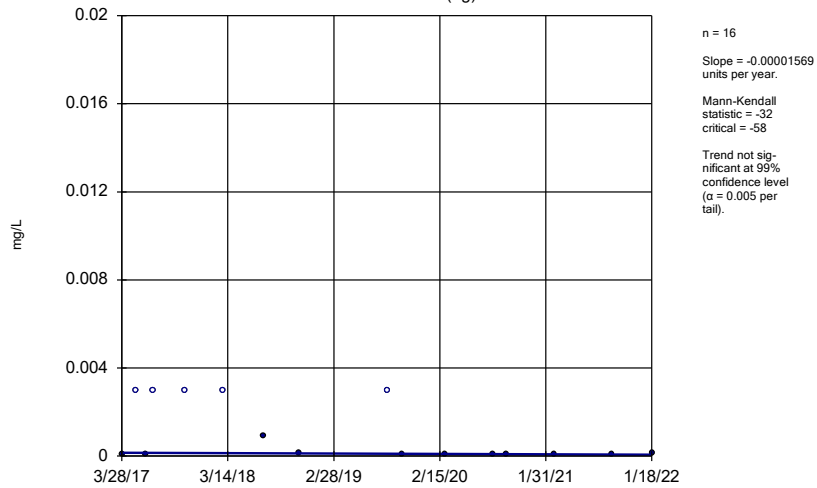
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-70A (bg)



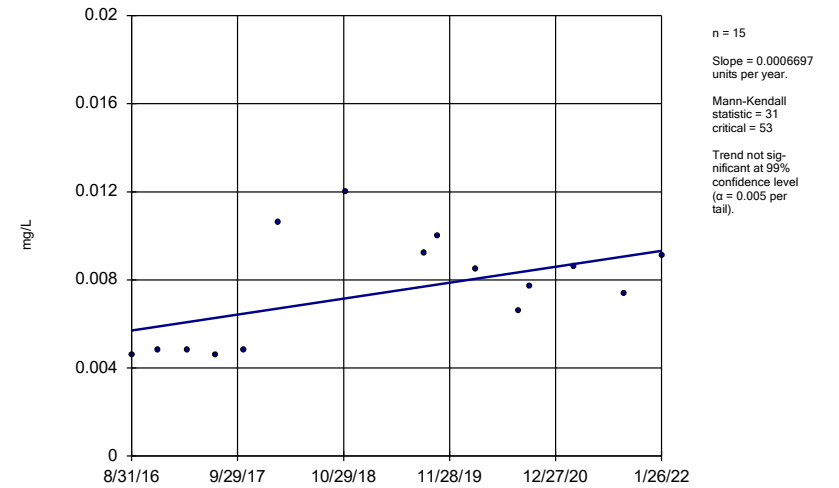
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-71 (bg)



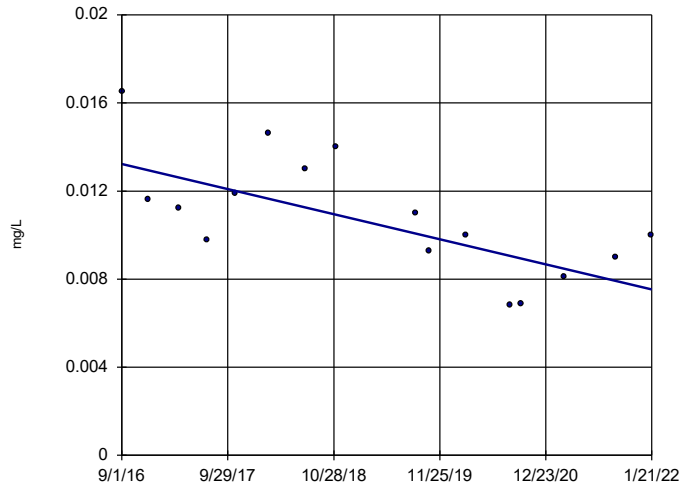
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-10



Constituent: Beryllium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

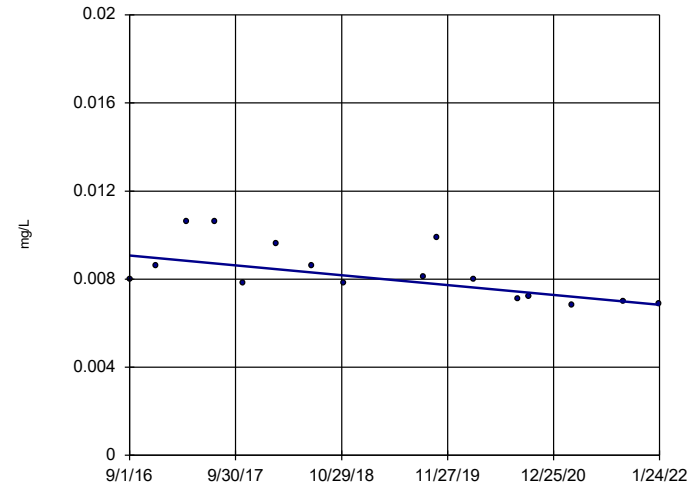
Sen's Slope Estimator  
DGWC-47



n = 16  
Slope = -0.001058 units per year.  
Mann-Kendall statistic = -57  
critical = -58  
Trend not significant at 99% confidence level (α = 0.005 per tail).

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Plant McDonough Client: Southern Company Data: McDonough AP

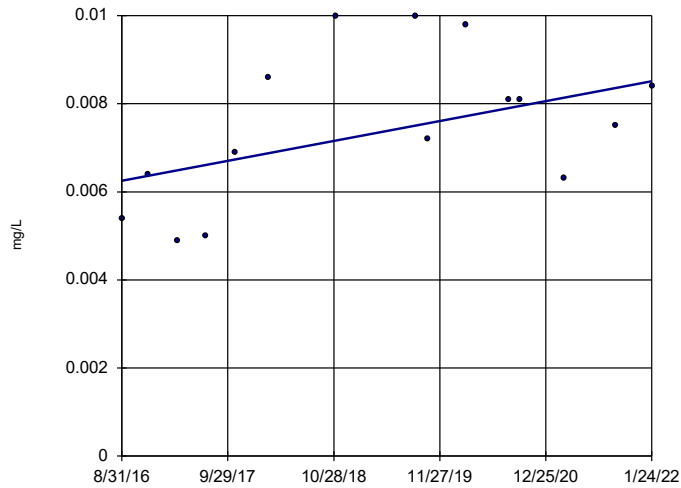
Sen's Slope Estimator  
DGWC-48



n = 16  
Slope = -0.0004126 units per year.  
Mann-Kendall statistic = -66  
critical = -58  
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

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Plant McDonough Client: Southern Company Data: McDonough AP

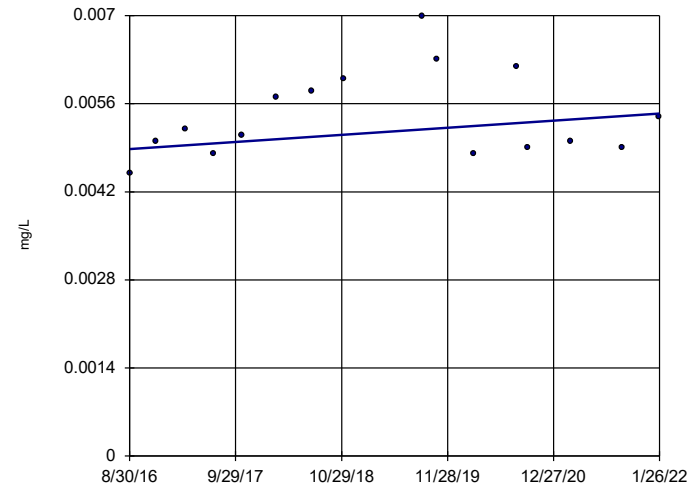
Sen's Slope Estimator  
DGWC-5



n = 15  
Slope = 0.0004175 units per year.  
Mann-Kendall statistic = 31  
critical = 53  
Trend not significant at 99% confidence level (α = 0.005 per tail).

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Plant McDonough Client: Southern Company Data: McDonough AP

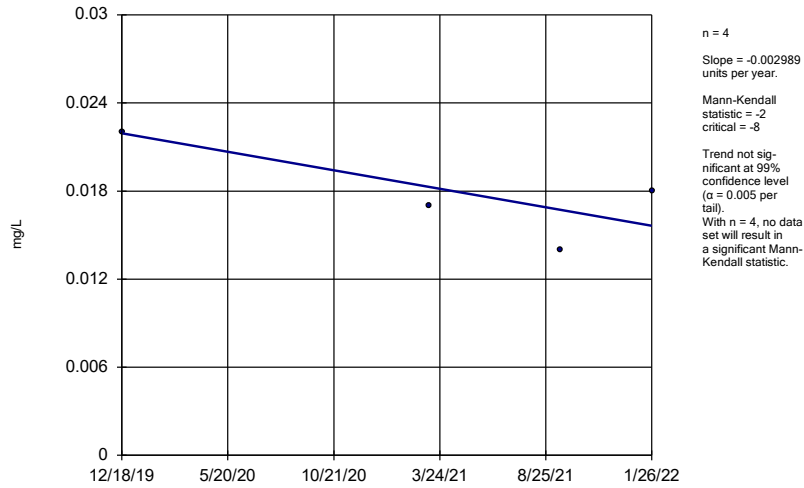
Sen's Slope Estimator  
DGWC-9



n = 16  
Slope = 0.0001047 units per year.  
Mann-Kendall statistic = 23  
critical = 58  
Trend not significant at 99% confidence level (α = 0.005 per tail).

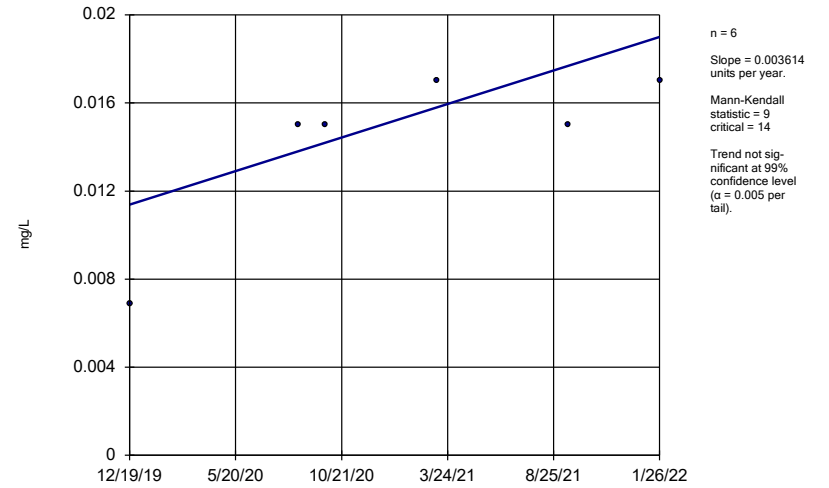
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
B-92



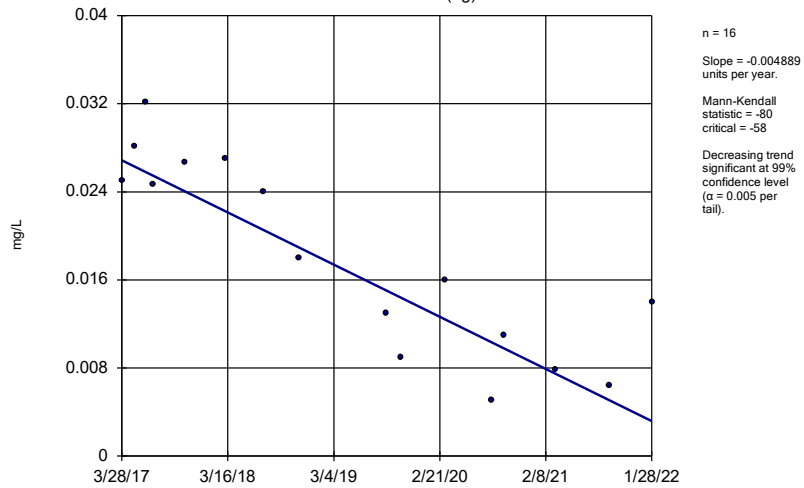
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Sen's Slope Estimator  
B-93



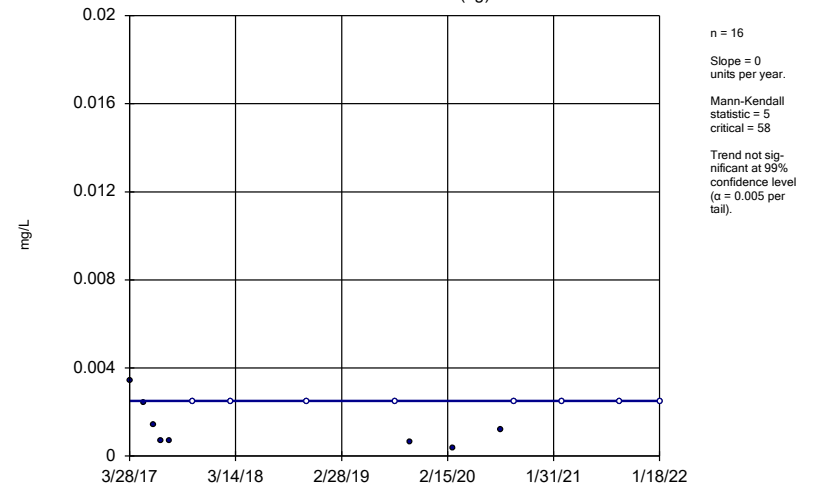
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-53 (bg)



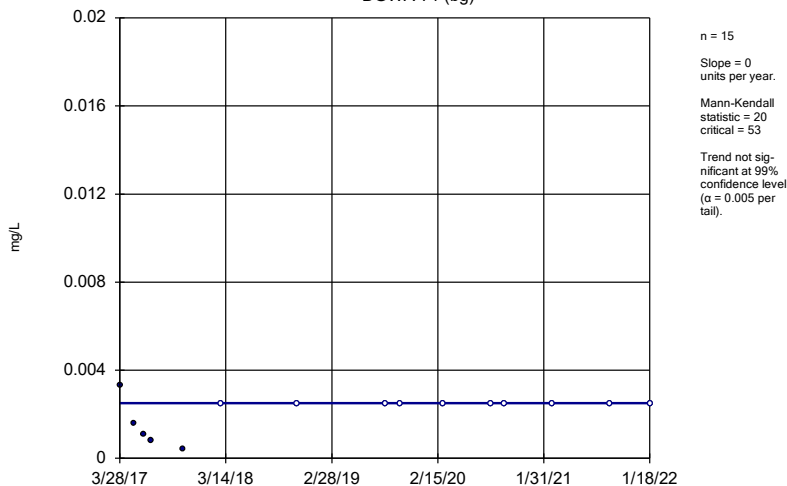
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-70A (bg)



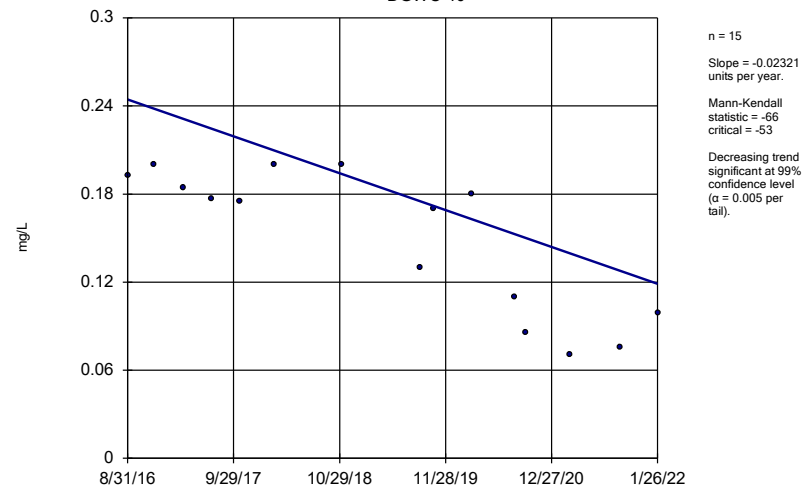
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
 DGWA-71 (bg)



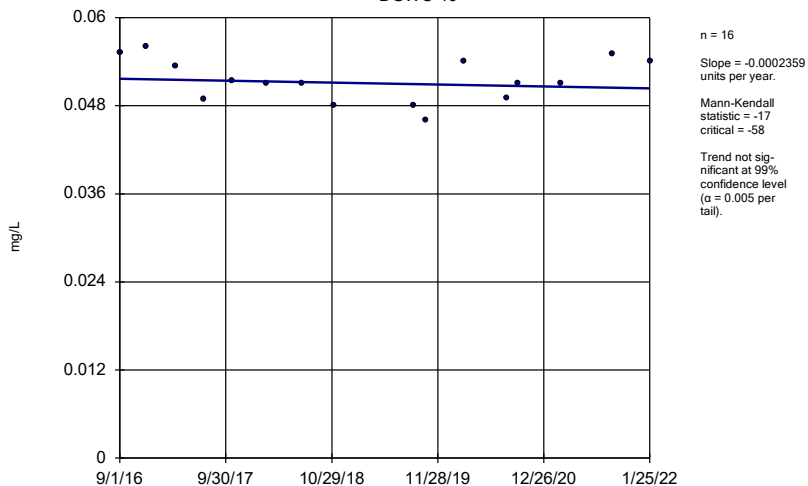
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 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
 DGWC-10



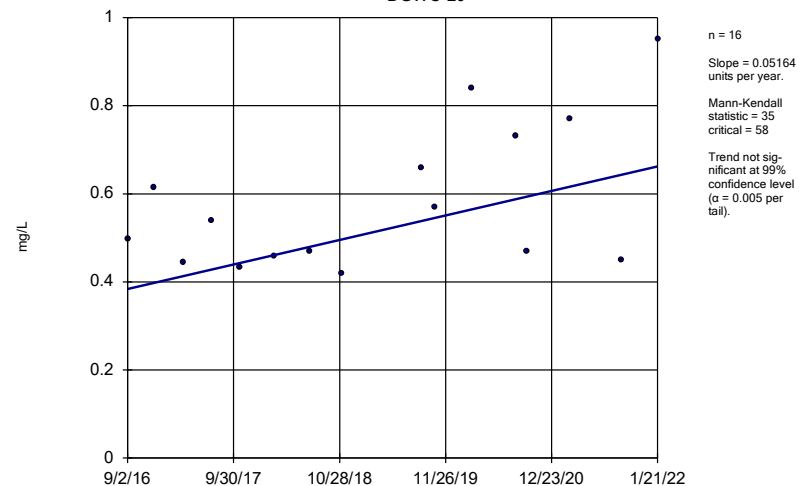
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Sen's Slope Estimator  
 DGWC-19



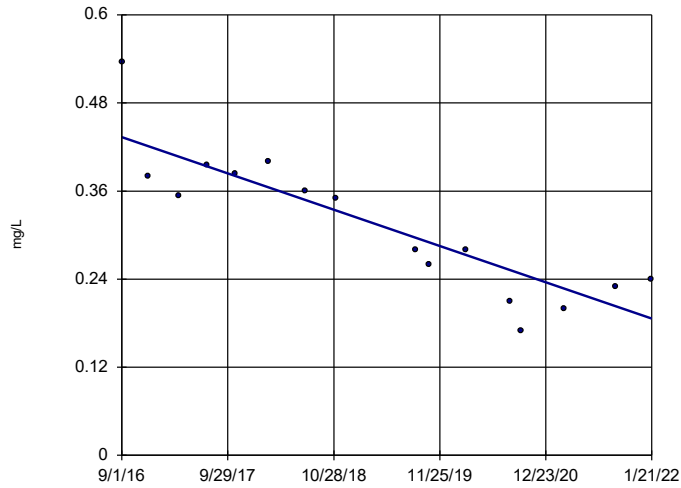
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 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
 DGWC-20



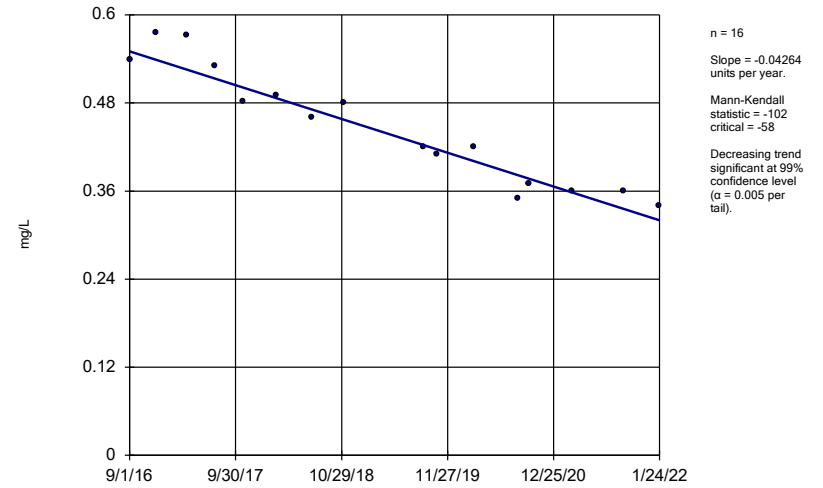
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 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-47



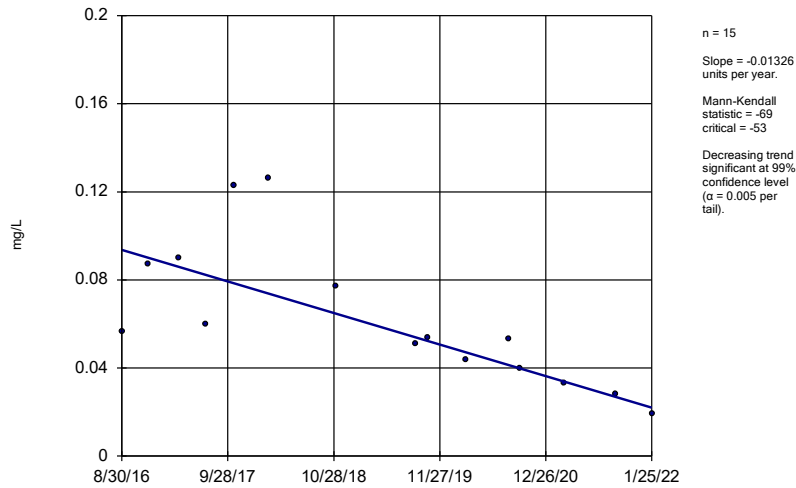
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-48



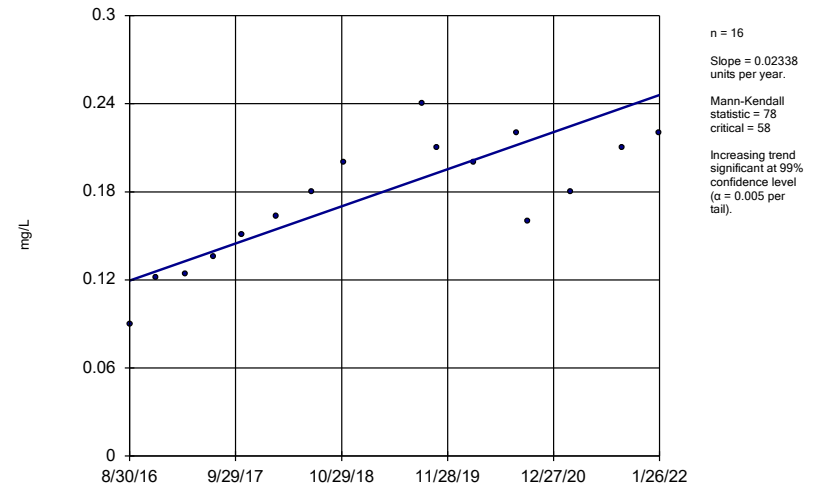
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-8



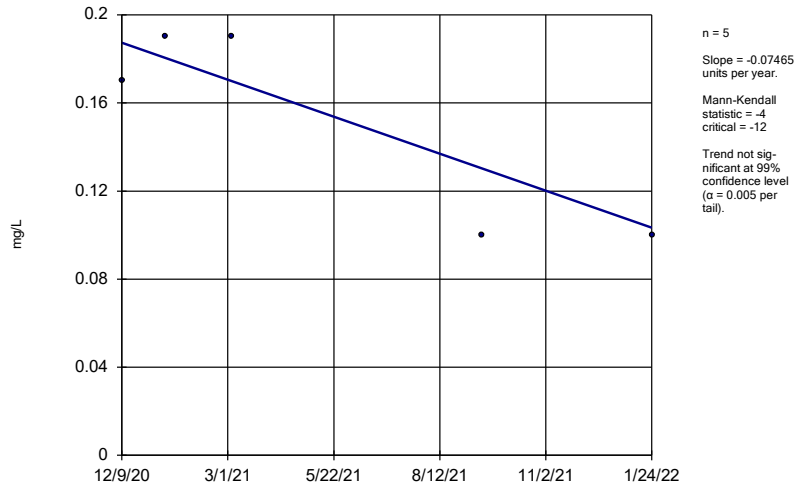
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-9



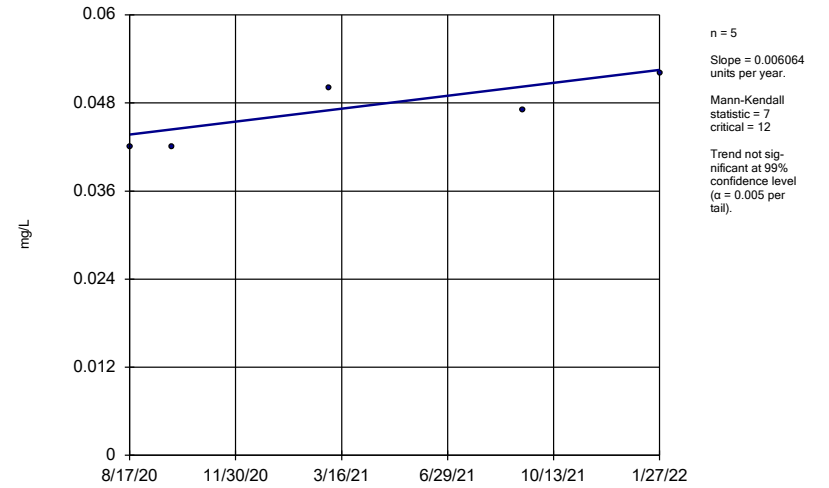
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
B-104D



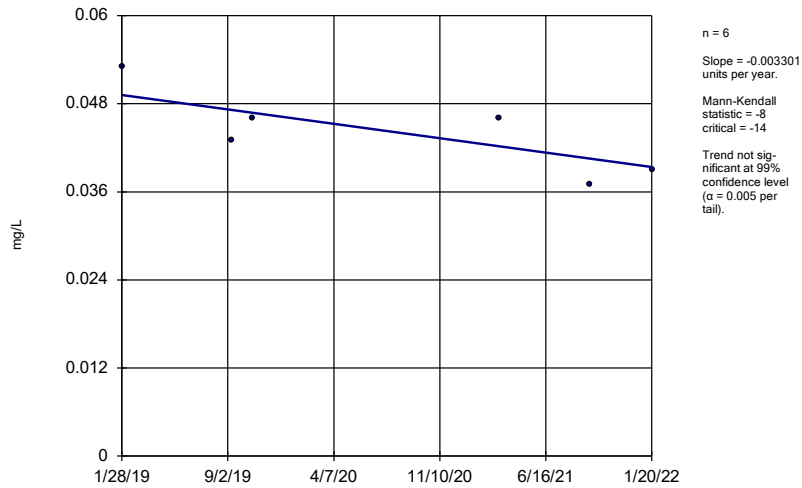
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
B-56



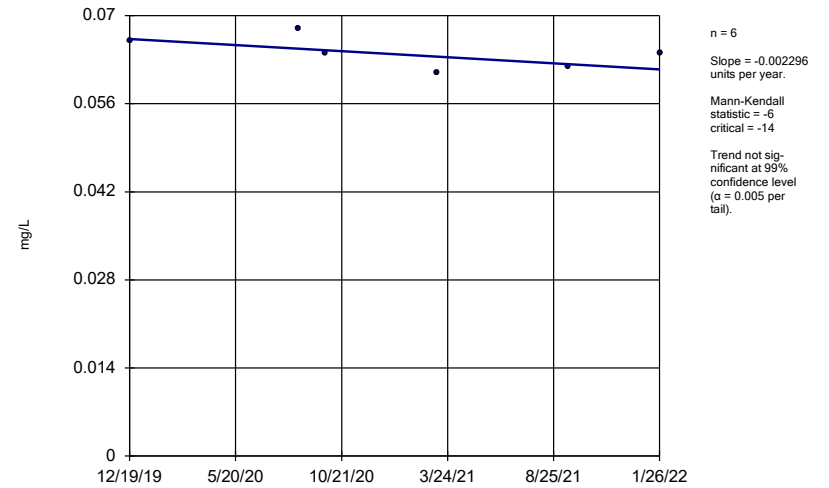
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Sen's Slope Estimator  
B-63



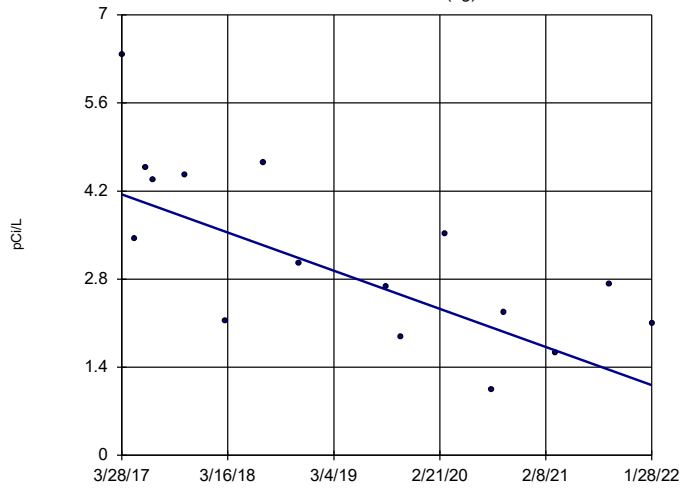
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
B-93



Constituent: Cobalt Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

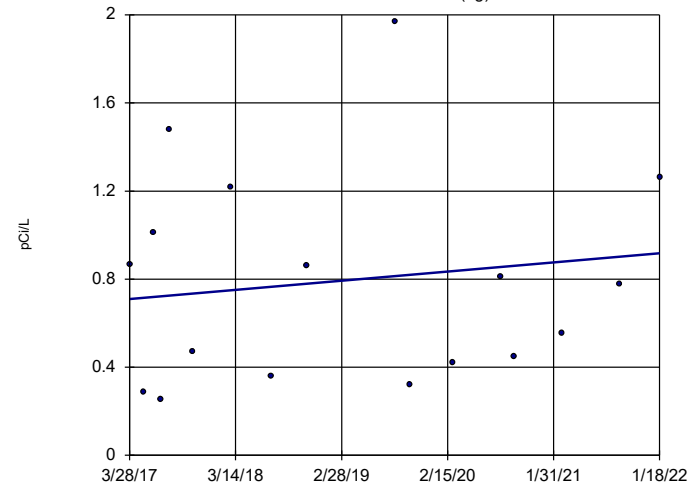
Sen's Slope Estimator  
DGWA-53 (bg)



n = 16  
Slope = -0.6256 units per year.  
Mann-Kendall statistic = -62  
critical = -58  
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Tr  
Plant McDonough Client: Southern Company Data: McDonough AP

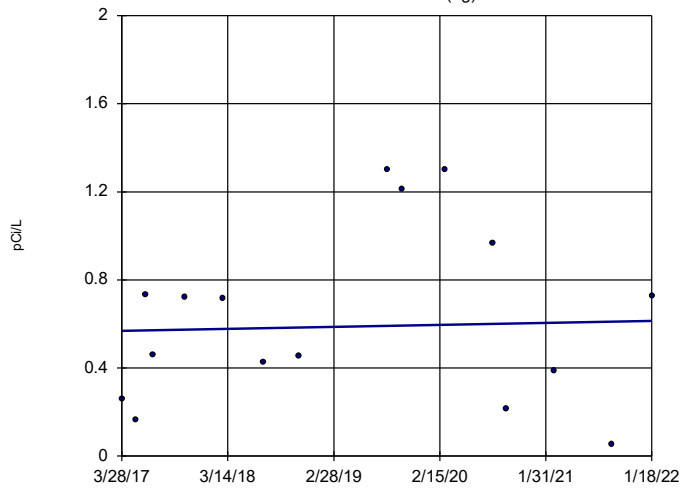
Sen's Slope Estimator  
DGWA-70A (bg)



n = 17  
Slope = 0.04334 units per year.  
Mann-Kendall statistic = 12  
critical = 63  
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Tr  
Plant McDonough Client: Southern Company Data: McDonough AP

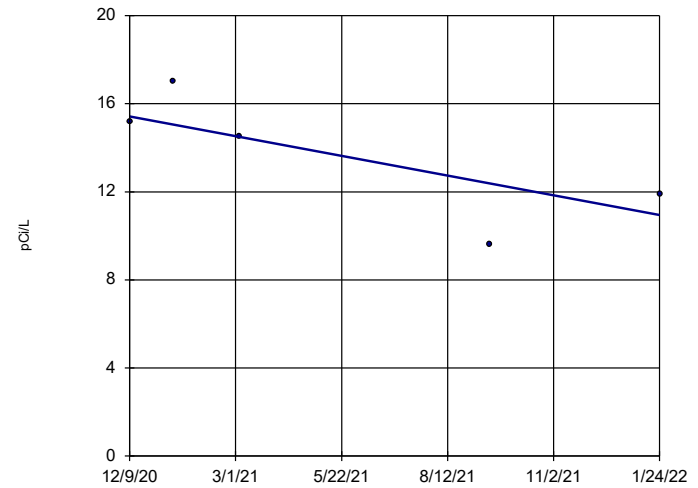
Sen's Slope Estimator  
DGWA-71 (bg)



n = 16  
Slope = 0.0095 units per year.  
Mann-Kendall statistic = 5  
critical = 58  
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Tr  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
B-104D

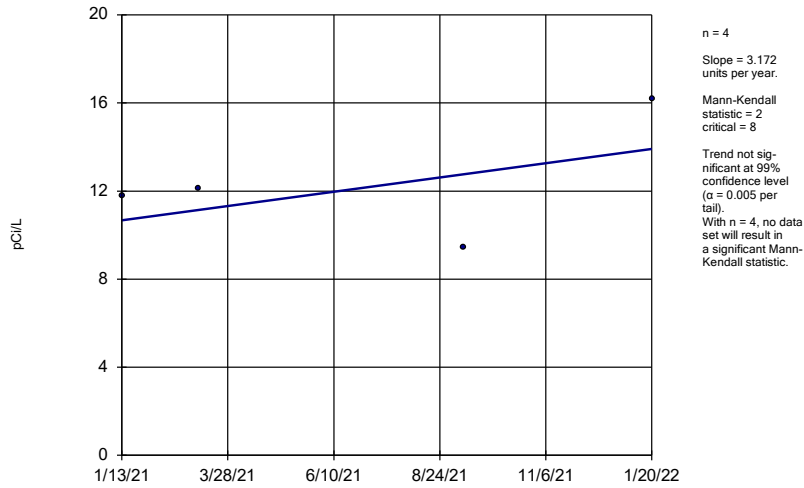


n = 5  
Slope = -3.972 units per year.  
Mann-Kendall statistic = -6  
critical = -12  
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Tr  
Plant McDonough Client: Southern Company Data: McDonough AP

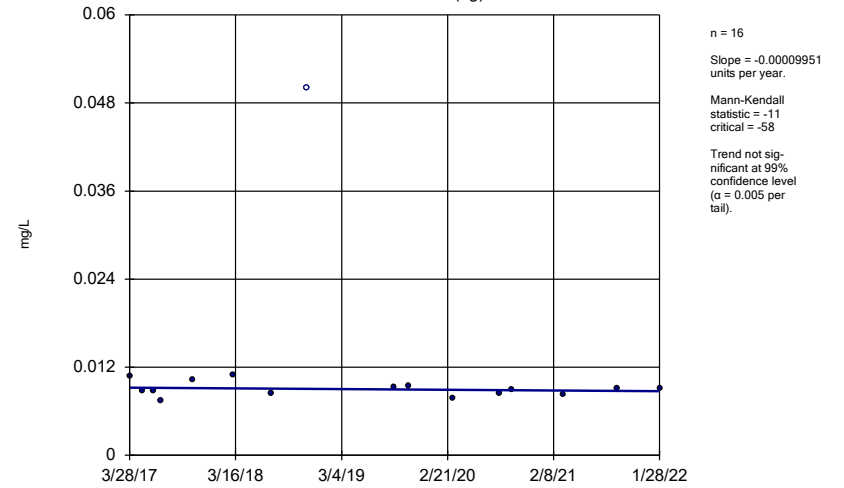


Sen's Slope Estimator  
B-109D



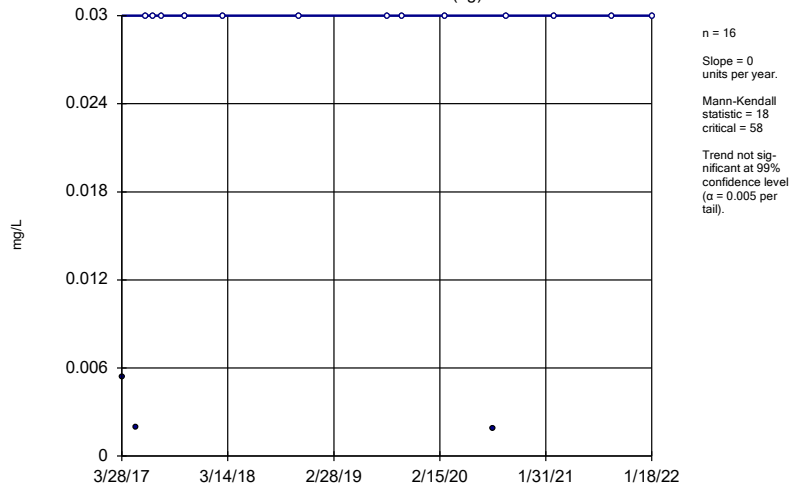
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-53 (bg)



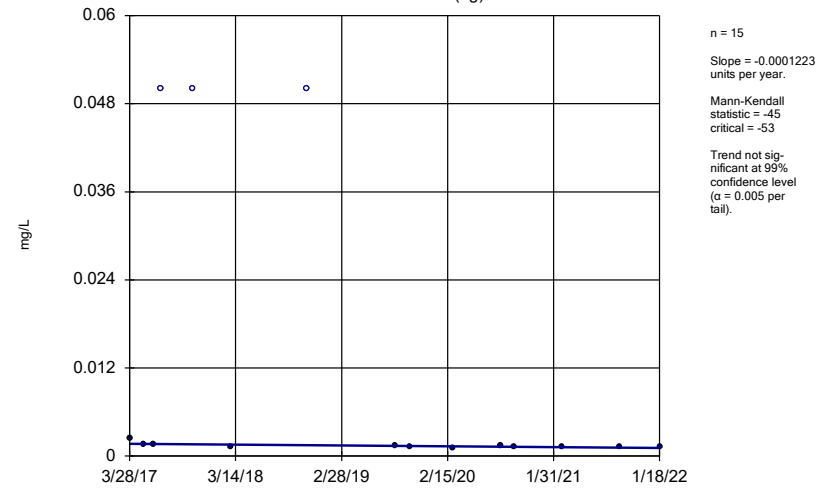
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-70A (bg)



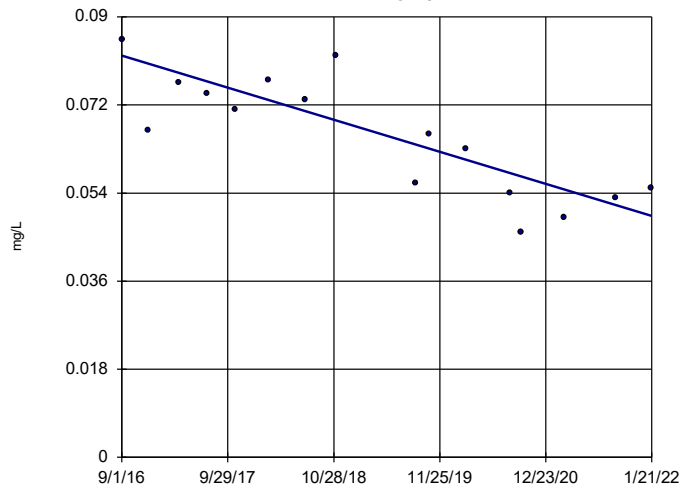
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-71 (bg)



Constituent: Lithium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

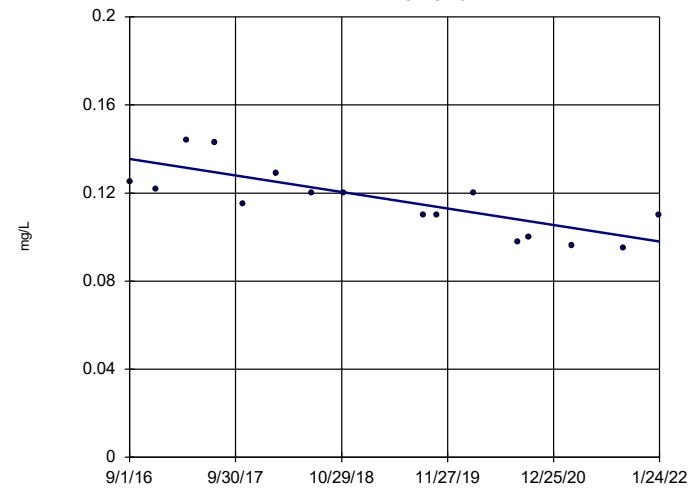
### Sen's Slope Estimator DGWC-47



n = 16  
Slope = -0.006075  
units per year.  
Mann-Kendall  
statistic = -72  
critical = -58  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Lithium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-48



n = 16  
Slope = -0.006941  
units per year.  
Mann-Kendall  
statistic = -80  
critical = -58  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Lithium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

**APPENDIX F**

# Semi-Annual Remedy Selection and Design Progress Report



**REPORT**

# 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:

**Golder Associates USA Inc.**

5170 Peachtree Road Building 100 Suite 300, Atlanta, Georgia, USA 30341

+1 770 496-1893

July 29, 2022



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## Appendices

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Appendix C: Terra Systems, Inc. Treatability Study Report

## Certification

This *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) 227.97(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).

**Golder Associates USA Inc.**



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## 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), Golder Associates USA Inc. a member of WSP (Golder) has prepared this *Semi-Annual Remedy Selection and Design Progress Report Plant McDonough-Atkinson* (July 2022; Semi-Annual Progress Report) 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. An Alternate Source Demonstration (ASD) for the occurrences of radium has been submitted to GA EPD.

The purpose of the ACM Report (and subsequent semiannual progress reports) is to document the process of evaluating and selecting corrective measure(s) to improve groundwater quality. 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), semiannual 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.

## 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 cobalt at B-56, B-63, B-93, and B-104D, as well as beryllium at B-92 and B-93.

The following remedial alternatives have been retained for further evaluation:



- **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 constituents present at SSLs including, arsenic, beryllium, cobalt, lithium and selenium. Under anaerobic conditions, arsenic 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 arsenic, beryllium, cobalt, selenium and to a lesser degree lithium 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.
- **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. The proposed technology for a pump-and-treat system would include the installation of vertical and/or angled groundwater extraction wells downgradient of the source area. 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. Groundwater extraction wells installed in bedrock can alternatively be completed as open-hole borings to maximize groundwater removal from multiple water-bearing fracture zones at varying depths.
- **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. 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.

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. A PRB can attenuate some CCR constituents at the Site, but this technology is prone to biofouling and excessive mineral precipitation, and subsequently reducing the effectiveness of the adsorption media over time. 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, including MNA as a corrective action to address SSLs of arsenic, beryllium, cobalt, lithium, selenium and radium 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 January through June 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 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2022b).

AP-2 and 3/4 Statistically Significant Level Exceedances	
Appendix IV Parameter	AP-2 and 3/4 Monitoring Well
Arsenic	DGWC-9
Beryllium	DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48, B-92, B-93
Cobalt	DGWC-8, DGWC-9, DGWC-10, DGWC-19, DGWC-20, DGWC-47, DGWC-48, B-56, B-63, B-93, B-104D
Lithium	DGWC-47, DGWC-48
Selenium	DGWC-9
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 January 2022 groundwater surface elevations are provided on Figures 3A and 3B.

Well and constituents with SSLs 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 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2022b). The lack of increasing trends at wells where SSLs have been identified along with multiple decreasing trends confirms the chemical stability of the groundwater and the plume appears to be stable.

Based on Site data, the combined radium SSLs at the Site is 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.

### Horizontal and Vertical Delineation

To characterize the nature and extent of arsenic, beryllium, cobalt, lithium, selenium, and combined radium SSLs, multiple piezometers have been installed and sampled at the Site (Golder, 2022d); 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 8 present isoconcentration contours for each of the constituents with an exceedance of the GWPS: arsenic, beryllium, cobalt, lithium, selenium, and combined radium.

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-93, B-98, Flow is toward AP-4 <sup>[3]</sup>
DGWC-8	Cobalt	B-106D	B-88, Flow is toward AP-4 <sup>[3]</sup>
DGWC-9	Arsenic	B-101D	DGWC-10, Flow is toward AP-4 <sup>[3]</sup>
	Beryllium	B-101D	DGWC-11, Flow is toward AP-4 <sup>[3]</sup>
	Cobalt	B-101D	DGWC-11, Flow is toward AP-4 <sup>[3]</sup>
	Selenium <sup>[4]</sup>	B-101D	DGWC-10, Flow is toward AP-4 <sup>[3]</sup>
DGWC-10	Beryllium	B-102D	DGWC-11, Flow is toward AP-4 <sup>[3]</sup>
	Cobalt	B-102D	DGWC-11, Flow is toward AP-4 <sup>[3]</sup>
DGWC-19	Cobalt	B-107D	B-77
DGWC-20	Cobalt	B-108D	B-83
DGWC-47	Beryllium	B-123D / B-115D <sup>[1]</sup>	B-77
	Cobalt	B-123D / B-115D <sup>[1]</sup>	B-77
	Lithium	B-123D / B-115D <sup>[1]</sup>	B-77
DGWC-48	Beryllium	B-104D / B-122D <sup>[1]</sup>	B-83
	Cobalt	B-104D / B-122D <sup>[1]</sup>	B-83
	Lithium	B-104D / B-122D <sup>[1]</sup>	B-83
B-56	Cobalt	B-101D	B-66, Flow is toward AP-4 <sup>[3]</sup>
B-63	Cobalt	B-122D <sup>[2]</sup>	DW_US
B-92	Beryllium	B-111D	B-97, Flow is toward AP-4 <sup>[3]</sup>
B-93	Beryllium	B-111D	B-98, Flow is toward AP-4 <sup>[3]</sup>
	Cobalt	B-111D	B-98, Flow is toward AP-4 <sup>[3]</sup>
B-104D	Cobalt	B-122D <sup>[2]</sup>	B-122D <sup>[2]</sup>
	Combined Radium <sup>[4]</sup>	B-123D Pending <sup>[2]</sup>	B-122D <sup>[2]</sup>
B-109D	Combined Radium <sup>[4]</sup>	B-123D Pending <sup>[2]</sup>	B-122D <sup>[2]</sup>

Notes:

- [1] Delineation status is pending additional data collection at location B-115D, B-122D, B-123D. A minimum of four data points is needed to perform the required statistical analyses.
- [2] Monitoring wells B-122 and B-123 were installed in April/May 2022 and first sampled in June 2022. Verification sampling is ongoing.
- [3] Where groundwater flow is inward, toward AP-4, we have indicated delineation is complete.
- [4] An ASD for Combined Radium has been submitted for Plant McDonough. Georgia Power will continue to monitor the occurrence of combined radium and evaluate remedial alternatives until such time that GA EPD approves the ASD.

Based on data collected to date, the horizontal extent of target SSLs in groundwater has been determined and there are no impacts to surface water by constituents with SSLs at AP-2 and 3/4. The delineation of vertical extent of target SSLs at DGWC-47, DGWC-48 and B-104D is ongoing. Horizontal and vertical delineation is summarized below based on review of analytical results, statistical analyses and the isoconcentration contours (Figures 4-8). Details regarding the specific well pairs used for delineation and the status of delineation is described in detail in the *2022 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2022b).

## 2.2 Supplemental Data Collection and Analysis

Additional field investigation activities and data analysis have been performed to evaluate potential sources of constituents of concern as well as possible remedial alternatives. A summary of these data is described below.

### Bench-Scale Treatability Study

Terra Systems, Inc. was subcontracted to perform a bench-scale treatability study to evaluate neutralization/precipitation with potassium bicarbonate, sodium bicarbonate, and precipitation/adsorption with zero valent iron (ZVI), calcium oxide, ferric oxide and/or ferrous sulfide for two groundwater samples collected in February 2022 from AP-2 and 3/4 (DGWC-20 and DGWC-48). The objective of the bench-scale study was to evaluate in situ 'chemical sequestration' as a remediation technology for several metals including arsenic, beryllium, cobalt, lithium, and selenium and to:

- Identify the feasibility of in-situ remediation
- Determine the design parameters including reagent dosage and demand.

Results of the treatability study from AP-2 and 3/4 are as follows:

- Arsenic: Arsenic was not present in the Initial Condition (IC) for DGWC-48, so results are inconclusive. In DGWC-20, total and dissolved arsenic was present in the IC in exceedance of MCLs. During jar testing, arsenic in DGWC-20 was reduced below the MCL in the potassium and sodium bicarbonate treatments. ZVI showed no treatment for arsenic.
- Beryllium: In DGWC-48 and DGWC-20 (estimated "J", see Tables 8 and 9, Appendix D), all potassium and sodium bicarbonate treatments reduced dissolved beryllium to below the MCL; however, the ZVI treatments did not.
- Cobalt: In DGWC-48 and DGWC-20, dissolved cobalt concentrations were reduced between 54% and 76% using potassium and sodium bicarbonate, with sodium slightly outperforming potassium bicarbonate for dissolved cobalt removal. However, the observed reduction of observed cobalt was not below the GWPS.

- Lithium: None of the reagents were effective in treating dissolved lithium in groundwater sample from DGWC-48. There were only trace levels of dissolved lithium in the samples from DGWC-20.
- Selenium: Selenium was not detected in either the DGWC-48 or DGWC-20 initial characterization samples. These groundwater samples were spiked with a mixture of sodium selenite (Se<sup>4+</sup>) and sodium selenate (Se<sup>6+</sup>) to concentrations of 0.32 to 0.38 mg/L. None of the treatments reduced dissolved selenium to below the MCL. Only the highest (1.5 g/L) ZVI reduced dissolved selenium from the Control 0 by more than 50% in the DGWC-48 groundwater and no treatment reached the 50% threshold in the sample from DGWC-20.

The addition of relatively high dosages of potassium or sodium bicarbonate buffers were generally able to reach the GWPS for arsenic, and beryllium. Cobalt concentrations were reduced between 54%-76%, but GWPS were not reached. Lithium was not effectively treated in the DGWC-48 groundwater sample. Only the highest dosage of ZVI appeared to reduce selenium in one of the two groundwater samples with selenium. Tabulated results and the full treatability study summary is included in the Terra Systems, Inc. Report for Golder/WSP for Coal Combustion Residue Treatability Study Report included as Appendix C.

### Phase 2 Bench Scale Treatability Study

During June 2022, additional soils were collected from soil borings drilled adjacent to monitoring wells DGWC-68A, DGWC-69, and DGWC-40. Groundwater samples were also collected from each of these three wells as well as monitoring wells DGWC-20 and DGWC-48. Samples were submitted to Terra Systems, Inc. for a second phase of treatability study using site specific soil and groundwater. Phase 2 Jar testing replicates the Phase 1 testing with the addition of Site-specific soils/sediments into the jars to observe the effects of 'aquifer solids' materials on the various reagent's effectiveness. This study is ongoing, and results will be presented in future reports.

## 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, 2022d).
  - 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 January 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, 2022d)

## 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.

- Evaluate results from additional groundwater quality data to complete statistical analyses of delineation data. In addition to Appendix III/IV constituents, samples may also be analyzed for major cations/anions and other parameters for characterization of groundwater and to evaluate plume stability as well as potential remedies.
- Evaluate data from groundwater samples collected from select wells at AP-2 and 3/4 for a second phase of jar testing. Phase 2 Jar testing replicates the Phase 1 testing with the addition of Site-specific soils into the jars to observe the effects of 'aquifer solids' materials on the various reagent's effectiveness.
- On-going geochemical modeling and evaluation will be performed to evaluate the cause of the cobalt exceedance at wells DGWC-19, DGWC-20, DGWC-47, and DGWC-48 and the potential that it is due to consistently low pH in that area (<5.0), while other wells near to and surrounding AP-2 and 3/4 have a higher pH (5.5 to 7.0).

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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Golder, 2022c. *Alternate Source Demonstration for Combined Radium, Plant McDonough-Atkinson Ash Pond 2 and 3/4*, Golder Associates USA Inc., a member of WSP, July 26, 2022.

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US EPA 2007. *Monitored Natural Attenuation for Inorganic Contaminants in Ground Water. Volume 1 – Technical Basis for Assessment*. National Risk Management Laboratory. EPA/600/R-07/139. October 2007.

US EPA. 2015a. Federal Register. Volume 80. No. 74. Friday April 17, 2015. Part II. Environmental Protection Agency. 40 CFR Parts 257 and 261. Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule. [EPA-HQ-RCRA-2009-0640; FRL-9919-44-OSWER]. RIN-2050-AE81, April 2015.

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Wood, 2020. *Risk Evaluation Report Plant McDonough Ash Pond 2 and 3/4*, Wood Environment & Infrastructure Solutions, Inc., December 2020.



## 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
<b>Geochemical Approaches (in situ injection)</b>	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.
<b>Hydraulic Containment (pump- and-treat)</b>	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.
<b>Monitored Natural Attenuation (MNA)</b>	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
<b>In-Situ Solidification / Stabilization (ISS)</b>	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.
<b>Permeable Reactive Barrier (PRB)</b>	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. PRB walls are typically keyed into the bedrock. While the shallow groundwater in the residuum and fractured bedrock is connected to the groundwater in more competent bedrock, the higher permeability/conductivity of the PRB is not expected to impede groundwater flow. PRBs can also be constructed as “funnel and gate” systems, where a barrier wall directs groundwater to a smaller “treatment gate” filled with reactive media.	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.
<b>Phyto Remediation (Phyto)</b>	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.

**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
<b>Subsurface Vertical Barrier Walls</b>	<p>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.</p>	<p>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.</p>	<p>Generally reliable as a barrier to groundwater flow; however, treatment of downgradient groundwater is incidental and not the primary objective.</p>

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**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
<b>Geochemical Approaches (in situ injection)</b>	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.
<b>Hydraulic Containment (pump- and-treat)</b>	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.
<b>Monitored Natural Attenuation (MNA)</b>	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
<b>In-Situ Solidification / Stabilization (ISS)</b>	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.
<b>Permeable Reactive Barrier (PRB)</b>	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.
<b>Phyto Remediation (Phyto)</b>	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.
<b>Subsurface Vertical Barrier Walls</b>	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, which similar to PRBs, should be keyed into a low permeability layer such as a thick clay layer or bedrock. 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	
<b>Geochemical Approaches (in situ injection)</b>	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 anaerobic 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.
<b>Hydraulic Containment (pump- and-treat)</b>	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.
<b>Monitored Natural Attenuation (MNA)</b>	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.
<b>In-Situ Solidification / Stabilization (ISS)</b>	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	
<b>Permeable Reactive Barrier (PRB)</b>	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.
<b>Phyto Remediation (Phyto)</b>	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.
<b>Subsurface Vertical Barrier Walls</b>	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-Atkinson Ash Pond 1  
 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
<b>ASH POND 1 (AP-1) DETECTION MONITORING WELL NETWORK</b>											
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
<b>ASH POND 1 (AP-1) ASSESSMENT MONITORING WELL NETWORK</b>											
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	70.00	716.0	706.0	10	10/19/2020
B-112D	Downgradient	Upper Bedrock	1391564.2	2200664.1	765.58	766.1	55	721.4	711.4	10	3/22/2021
B-113D	Downgradient	Upper Bedrock	1391264.6	2200719.2	758.22	758.8	85	684.4	674.4	10	3/30/2021

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 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
<b>ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) DETECTION MONITORING WELL NETWORK</b>											
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

**TABLE 2**  
**SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION DATA**  
 Georgia Power Company - Plant McDonough-Atkinson Ash Pond 1  
 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
<b>ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) ASSESSMENT MONITORING WELL NETWORK</b>											
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	745.1	735.1	10	9/17/2019
B-82	Downgradient	Overburden	1393750.0	2204258.1	810.07	807.5	45	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	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	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	75.00	756.3	746.3	10	11/12/2020
B-102D	Downgradient	Upper Bedrock	1393828.4	2204200.4	823.42	820.6	85.00	746.2	736.2	10	11/10/2020
B-104D	Downgradient	Upper Bedrock	1391318.3	2202298.5	787.90	785.3	60.00	735.3	725.3	10	10/20/2020
B-106D	Downgradient	Upper Bedrock	1394327.1	2203869.2	826.21	823.5	80.00	754.1	744.1	10	11/13/2020
B-107D	Downgradient	Upper Bedrock	1392334.5	2202596.4	823.38	820.6	85.75	745.5	735.5	10	10/28/2020
B-108D	Downgradient	Upper Bedrock	1392156.1	2202312.5	821.13	818.4	80.00	749.4	739.4	10	10/27/2020
B-109D	Downgradient	Upper Bedrock	1393957.5	2202127.0	850.73	847.8	100.00	758.4	748.4	10	10/31/2020
B-111D	Downgradient	Upper Bedrock	1394303.4	2202956.4	791.87	789.1	85.00	714.9	704.9	10	11/3/2020
B-115D	Downgradient	Upper Bedrock	1391265.3	2202580.7	789.17	786.4	80	717.2	707.2	10	3/20/2021
B-120D	Downgradient	Upper Bedrock	1394047.2	2202436.4	836.42	834.0	70	775.0	765.0	10	3/6/2021
B-122D	Downgradient	Bedrock	1390992.8	2202975.4	777.03	777.3	85	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-Atkinson Ash Pond 1  
 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
<b>ASH POND 1, ASH POND 2 AND ASH POND 3/4 SUPPLEMENTAL SAMPLING NETWORK</b>											
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-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
B-116D	Upgradient	Upper Bedrock	1390483.7	2200611.0	807.82	805.3	90	726.1	716.1	10	3/8/2021
B-117D	Upgradient	Upper Bedrock	1393963.8	2201727.3	863.82	861.2	75	796.5	786.5	10	3/17/2021
B-118	Upgradient	Upper Bedrock	1391219.3	2200449.7	807.70	805.0	75	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>PIEZOMETERS</b>											
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

**TABLE 2**  
**SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION DATA**  
 Georgia Power Company - Plant McDonough-Atkinson Ash Pond 1  
 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
<b>PIEZOMETERS</b>											
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
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-78	Downgradient	Overburden/Upper Bedrock	1394328.2	2202958.2	790.75	788.0	30	768.0	758.5	10	9/22/2019
B-79	Downgradient	Overburden	1394458.6	2203223.0	788.66	785.9	34.93	761.0	751.5	10	9/21/2019
B-80	Downgradient	Overburden	1394372.6	2203533.9	804.47	801.8	30	782.0	772.5	10	9/20/2019
B-81	Downgradient	Overburden	1394364.9	2203741.1	820.56	817.7	50	778.5	768.5	10	9/22/2019
B-84	Downgradient	Overburden	1390411.9	2202241.9	776.34	776.6	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

**TABLE 2**  
**SUMMARY OF MONITORING WELL, ASSESSMENT WELL AND PIEZOMETER CONSTRUCTION DATA**  
 Georgia Power Company - Plant McDonough-Atkinson Ash Pond 1  
 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
<b>PIEZOMETERS</b>											
B-87	Downgradient	Overburden	1394401.9	2203531.3	803.37	800.4	42	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-94	Downgradient	Overburden	1394402.0	2203513.7	801.74	799.2	45.24	764.6	754.6	10	1/23/2020
B-103D	Downgradient	Upper Bedrock	1391543.5	2202614.4	795.96	793.8	70.00	733.8	723.8	10	10/15/2020
B-110D	Downgradient	Upper Bedrock	1391294.4	2200736.0	764.61	764.7	65.00	711.7	701.7	10	11/17/2020
B-123D	Downgradient	Bedrock	1391234.4	2202608.4	781.80	778.9	160	668.9	618.9	50	4/4/2022

**Notes:**

1. bgs = below ground surface
2. Coordinate System: NAD 1983 State Plane Georgia West (U.S. feet)
3. NAD - North American Datum; NAVD - North American Vertical Datum

**TABLE 3**  
**Proposed ACM Supplemental Data Collection Tasks for July through December 2022**  
 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)
<b>Groundwater Sampling</b>	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; sulfide, iron, manganese, magnesium, sodium, potassium, bicarbonate alkalinity, dissolved organic carbon (DOC), and total hardness to be collected at select locations.  Additional volume to submit for Phase 2 Jar Testing to be performed at select locations (DGWC-19, DGWC-20, DGWC-47, DGWC-48).
<b>Soil Sampling</b>	ISI MNA	Evaluate the effectiveness of different injection media for treatment of arsenic, beryllium, cobalt, lithium, and selenium.	Collect soil samples from soil borings near DGWC-19, DGWC-20, DGWC-47, DGWC-48.	Perform Phase 2 Jar Testing using soil/sediments and groundwater from the site to evaluate effects of 'aquifer solids' on the various reactant's (e.g. potassium bicarbonate) treatment effectiveness.
<b>Geochemical Modeling</b>	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 performed to evaluate the cause of the cobalt exceedance at wells DGWC-19, DGWC-20, DGWC-47 and 48 and the potential that it is due to consistently low pH in that area (<5.0), while near to and surrounding AP-2 and 3/4 have a higher pH (5.5 to 7.0).

Applicable Corrective Measures (CM Retained):

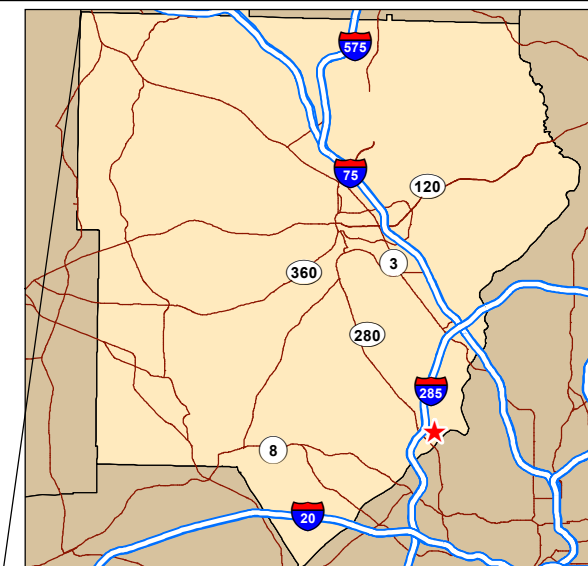
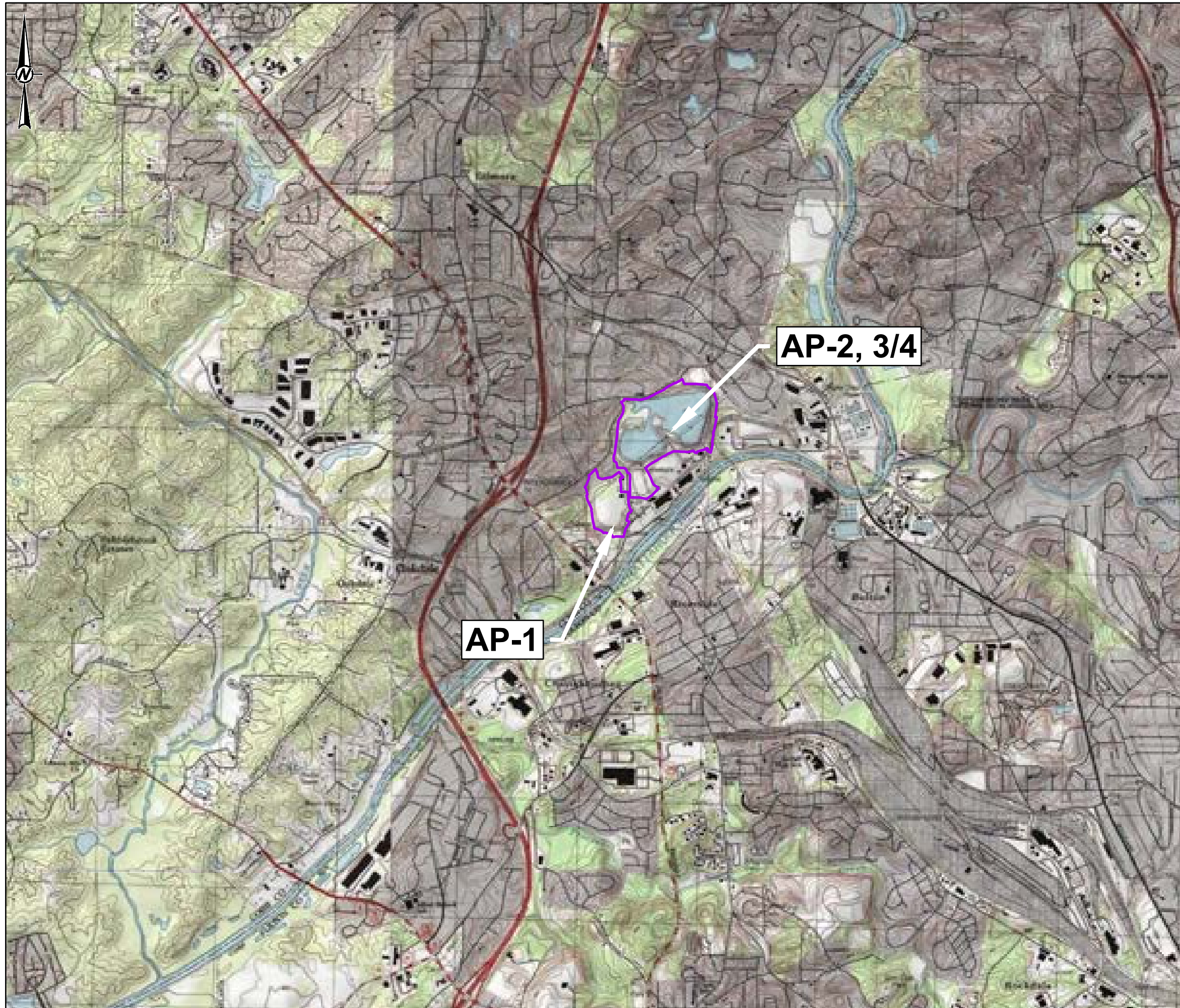
ISI - Geochemical Approaches (In-Situ Injection);

P&T - Hydraulic Containment (Pump and Treat);

MNA - Monitored Natural Attenuation

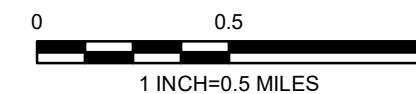
## FIGURES





**REFERENCE**

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CLIENT  
 GEORGIA POWER COMPANY  
 PLANT MCDONOUGH



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

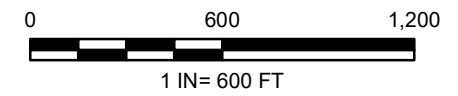
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM ANS/B



- LEGEND**
- ◆ AP-1 MONITORING WELL
  - ◆ AP-2,3/4 MONITORING WELL
  - ◆ UPGRADIENT WELL
  - ◆ ASSESSMENT MONITORING WELLS
  - ◆ PIEZOMETER
  - ◆ DEWATERING WELL
  - ◆ SURFACE WATER MONITORING LOCATION
  - ▲ TEST PIT LOCATIONS
  - STAFF GAUGE
  - PROPERTY BOUNDARY
  - PERMIT BOUNDARY

**NOTES**  
 1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

- REFERENCE**
1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND APRIL 20, 2022 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
  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.



CLIENT  
 GEORGIA POWER COMPANY  
 PLANT MCDONOUGH



PROJECT  
 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS  
 REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

**MONITORING WELL, PIEZOMETER AND SURFACE WATER LOCATION MAP**

CONSULTANT	YYYY-MM-DD	2022-06-13
<b>WJI GOLDER</b>	PREPARED	SEB
	DESIGN	DLP
	CHECKED	DP/RPK
	REVIEWED/APPROVED	RPK

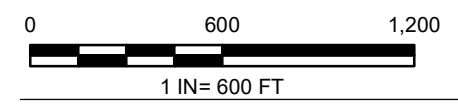
IF THE MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM ANS.B



- 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 JANUARY 18, 2022 BY GOLDER ASSOCIATES.
  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. BTOP= BELOW TOP OF PUMP.

- REFERENCE**
1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND FEBRUARY 8, 2022 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
  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.



CLIENT  
 GEORGIA POWER COMPANY  
 PLANT MCDONOUGH

PROJECT  
 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS  
 REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE  
**SITE POTENTIOMETRIC MAP – JANUARY 18, 2022**

CONSULTANT	YYYY-MM-DD	2022-02-11
	PREPARED	SEB
	DESIGN	SEB
	CHECKED	BAS
	REVIEWED/APPROVED	RPK

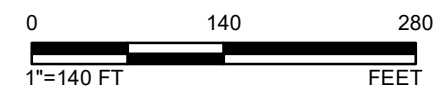
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM ANSIB



- LEGEND**
- AP-1 MONITORING WELL
  - AP-2,3/4 MONITORING WELL
  - UPGRADIENT WELL
  - ASSESSMENT MONITORING WELLS
  - PIEZOMETER
  - DEWATERING WELL
  - GROUNDWATER SURFACE CONTOUR (FT-NAVD88)
  - APPROXIMATE GROUNDWATER FLOW DIRECTION
  - 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 JANUARY 18, 2022 BY GOLDBER ASSOCIATES.
  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. BTOP = BELOW TOP OF PUMP.

- REFERENCE**
1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND FEBRUARY 8, 2022 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
  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.



**CLIENT**  
 GEORGIA POWER COMPANY

**PROJECT**  
 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

**TITLE**  
**(INSET) SITE POTENTIOMETRIC MAP**  
 JANUARY 18, 2022

**CONSULTANT**  
 WSP GOLDER

YYYY-MM-DD	2/23/2022
PREPARED	SEB
DESIGN	SEB
CHECKED	DLP
REVIEW/APPROVED	RPK

**PROJECT NO.** 166849621    **CONTROL**    **REV.** 0    **FIGURE** 3B

THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN. THE SHEET HAS BEEN MODIFIED FROM ANS18



**LEGEND**

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELLS
- PIEZOMETER
- DEWATERING WELL
- SURFACE WATER MONITORING LOCATION
- 0.01 ARSENIC GWPS ISOCONCENTRATION CONTOUR
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (JAN 2022)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

- NOTES**
- ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE
  - GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD.
  - DATA SHOWN REPRESENT THE JANUARY 2022 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.
  - DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.
  - POTENTIOMETRIC SURFACE DETERMINED USING JANUARY 2022 WATER LEVELS.

Analyte	Units	GWPS
Arsenic	mg/L	0.01

**REFERENCE**

- SERVICE LAYER CREDITS: AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND JUNE 23, 2022 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
- COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
- 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

PROJECT  
SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS  
REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE  
**ARSENIC ISOCONCENTRATION CONTOUR MAP -  
JANUARY 2022**

CONSULTANT  
GOLDER

YYYY-MM-DD	2022-07-19
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 ANS/B



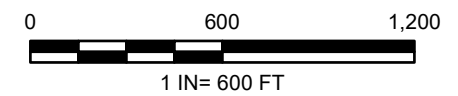
**LEGEND**

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ★ ASSESSMENT MONITORING WELLS
- PIEZOMETER
- ▲ DEWATERING WELL
- SURFACE WATER MONITORING LOCATION
- 0.004 BERYLLIUM GWPS ISOCONCENTRATION CONTOUR
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (JAN 2022)
- - - PROPERTY BOUNDARY
- PERMIT BOUNDARY

- NOTES**
- ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE
  - GOUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD.
  - DATA SHOWN REPRESENT THE JANUARY 2022 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.
  - DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.
  - POTENTIOMETRIC SURFACE DETERMINED USING JANUARY 2022 WATER LEVELS.

Analyte	Units	GWPS
Beryllium	mg/L	0.004

- REFERENCE**
- SERVICE LAYER CREDITS: AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND JUNE 23, 2022 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
  - COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
  - 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.



CLIENT  
**GEORGIA POWER COMPANY**  
 PLANT MCDONOUGH

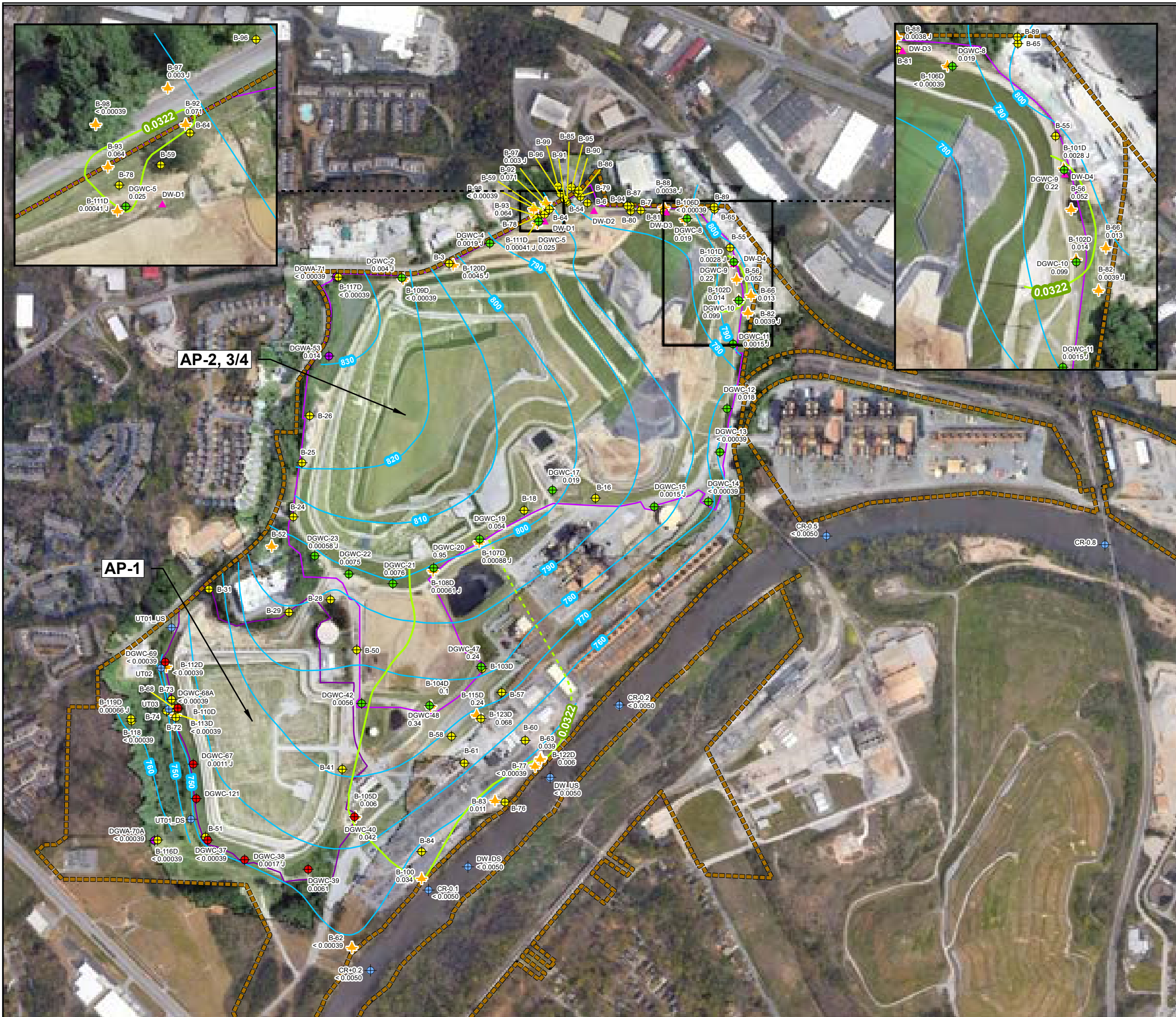


PROJECT  
 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS  
 REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

**TITLE**  
**BERYLLIUM ISOCONCENTRATION CONTOUR MAP -**  
**JANUARY 2022**

CONSULTANT	YYYY-MM-DD	2022-07-19
<b>WSP GOLDER</b>	PREPARED	SEB
	DESIGN	BAS
	CHECKED	DP/RPK
	REVIEWED/APPROVED	RPK

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM ANS/B

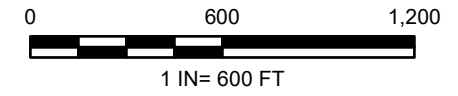


- LEGEND**
- AP-1 MONITORING WELL
  - AP-2,3/4 MONITORING WELL
  - UPGRADE WELL
  - ★ ASSESSMENT MONITORING WELLS
  - ⊕ PIEZOMETER
  - ▲ DEWATERING WELL
  - ⊕ SURFACE WATER MONITORING LOCATION
  - 0.0322 COBALT GWPS ISOCONCENTRATION CONTOUR
  - COBALT GWPS ISOCONCENTRATION CONTOUR (INFERRED)
  - INFERRED POTENTIOMETRIC SURFACE CONTOUR (JAN 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 JANUARY 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 JANUARY 2022 WATER LEVELS.

Analyte	Units	GWPS
Cobalt	mg/L	0.0322

- REFERENCE**
1. SERVICE LAYER CREDITS: AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND JUNE 23, 2022 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
  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.



CLIENT  
**GEORGIA POWER COMPANY**  
 PLANT MCDONOUGH



PROJECT  
 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS  
 REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

**TITLE**  
**COBALT ISOCONCENTRATION CONTOUR MAP -**  
**JANUARY 2022**

CONSULTANT	DATE	REVISION
WSP   GOLDER	YYYY-MM-DD	2022-07-19
	PREPARED	SEB
	DESIGN	BAS
	CHECKED	DP/RPK
	REVIEWED/APPROVED	RPK







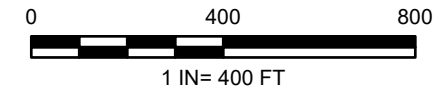
**LEGEND**

- ◆ AP-1 MONITORING WELL
- ◆ AP-2,3/4 MONITORING WELL
- ◆ UPGRADIENT WELL
- ◆ ASSESSMENT MONITORING WELLS
- ◆ PIEZOMETER
- ◆ DEWATERING WELL
- ◆ SURFACE WATER MONITORING LOCATION
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (JAN 2022)
- - - PROPERTY BOUNDARY
- PERMIT BOUNDARY

- NOTES**
- ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE
  - GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD.
  - DATA SHOWN REPRESENT THE JANUARY 2022 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.
  - POTENTIOMETRIC SURFACE DETERMINED USING JANUARY 2022 WATER LEVELS.

Analyte	Units	GWPS
Radium (226 + 228)	pCi/L	5.63

- REFERENCE**
- SERVICE LAYER CREDITS: AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND JUNE 23, 2022 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
  - COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
  - 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.



CLIENT  
**GEORGIA POWER COMPANY**  
 PLANT MCDONOUGH

PROJECT  
 SEMI-ANNUAL REMEDY SELECTION AND DESIGN PROGRESS  
 REPORT PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE  
**RADIUM CONCENTRATION CONTOUR MAP -  
 JANUARY 2022**

CONSULTANT	YYYY-MM-DD	2022-07-19
	PREPARED	SEB
<b>WSP   GOLDER</b>	DESIGN	BAS
	CHECKED	DP/RPK
	REVIEWED/APPROVED	RPK

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM ANS/B

**APPENDIX A**  
**ANALYTICAL DATA REPORTS**

## ANALYTICAL REPORT

Eurofins Knoxville  
5815 Middlebrook Pike  
Knoxville, TN 37921  
Tel: (865)291-3000

Laboratory Job ID: 140-26651-1  
Client Project/Site: Plant McDonough (166949621)

For:  
Golder Associates Inc.  
27200 Haggerty Road, Suite B-12  
Farmington Hills, Michigan 48331-5719

Attn: Dawn Prell



Authorized for release by:  
4/4/2022 1:47:47 PM

Ryan Henry, Project Manager I  
(865)291-3000  
[williamr.henry@eurofinset.com](mailto:williamr.henry@eurofinset.com)

### LINKS

Review your project  
results through  
**Total Access**

Have a Question?



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[www.eurofinsus.com/ETM](http://www.eurofinsus.com/ETM)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Definitions/Glossary

Client: Golder Associates Inc.  
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: Golder Associates Inc.  
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

## Job ID: 140-26651-1

### Laboratory: Eurofins Knoxville

#### Narrative

#### Job Narrative 140-26651-1

#### Receipt

The sample was received on 1/12/2022 at 10:00am and arrived in good condition. The temperature of the cooler at receipt was 20.2° C.

#### Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

The following sample was received at the laboratory outside the required temperature criteria: B-117D (52-52.5') (140-26651-1). This does not meet regulatory requirements. The client was contacted regarding this issue, and the laboratory was instructed to proceed with analysis.

#### Metals

##### 7 Step Sequential Extraction Procedure

These soil samples were prepared and analyzed using Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0008, "7 Step Sequential Extraction Procedure". SW-846 Method 6010B as incorporated in Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0007 was used to perform the final instrument analyses.

An aliquot of each sample was sequentially extracted using the steps listed below:

- Step 1 - Exchangeable Fraction: A 5 gram aliquot of sample was extracted with 25 mL of 1M magnesium sulfate (MgSO<sub>4</sub>), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 2 - Carbonate Fraction: The sample residue from step 1 was extracted with 25 mL of 1M sodium acetate/acetic acid (NaOAc/HOAc) at pH 5, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 3 - Non-crystalline Materials Fraction: The sample residue from step 2 was extracted with 25 mL of 0.2M ammonium oxalate (pH 3), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 4 - Metal Hydroxide Fraction: The sample residue from step 3 was extracted with 25 mL of 1M hydroxylamine hydrochloride solution in 25% v/v acetic acid, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 5 - Organic-bound Fraction: The sample residue from step 4 was extracted three times with 25 mL of 5% sodium hypochlorite (NaClO) at pH 9.5, centrifuged and filtered. The resulting leachates were combined and 5 mL were digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 6 - Acid/Sulfide Fraction: The sample residue from step 5 was extracted with 25 mL of a 3:1:2 v/v solution of HCl-HNO<sub>3</sub>-H<sub>2</sub>O, centrifuged and filtered. 5 mL of the resulting leachate was diluted to 50 mL with reagent water and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 7 - Residual Fraction: A 1.0 g aliquot of the sample residue from step 6 was digested using HF, HNO<sub>3</sub>, HCl and H<sub>3</sub>BO<sub>3</sub>. The digestate was analyzed by ICP using method 6010B. Results are reported in mg/kg on a dry weight basis.

In addition, a 1.0 g aliquot of the original sample was digested using HF, HNO<sub>3</sub>, HCl and H<sub>3</sub>BO<sub>3</sub>. The digestate was analyzed by ICP using method 6010B. Total metal results are reported in mg/kg on a dry weight basis.

Results were calculated using the following equation:

$$\text{Result, } \mu\text{g/g or mg/Kg, dry weight} = (C \times V \times V1 \times D) / (W \times S \times V2)$$

Where:

C = Concentration from instrument readout,  $\mu\text{g/mL}$

V = Final volume of digestate, mL

D = Instrument dilution factor

# Case Narrative

Client: Golder Associates Inc.  
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

## Job ID: 140-26651-1 (Continued)

### Laboratory: Eurofins Knoxville (Continued)

V1 = Total volume of leachate, mL  
V2 = Volume of leachate digested, mL  
W = Wet weight of sample, g  
S = Percent solids/100

A method blank, laboratory control sample and laboratory control sample duplicate were prepared and analyzed with each SEP step in order to provide information about both the presence of elements of interest in the extraction solutions, and the recovery of elements of interest from the extraction solutions. Results outside of laboratory QC limits do not reflect out of control performance, but rather the effect of the extraction solution upon the analyte.

A laboratory sample duplicate was prepared and analyzed with each batch of samples in order to provide information regarding the reproducibility of the procedure.

#### SEP Report Notes:

The final report lists the results for each step, the result for the total digestion of the sample, and a sum of the results of steps 1 through 7 by element.

Magnesium was not reported for step 1 because the extraction solution for this step (magnesium sulfate) contains high levels of magnesium. Sodium was not reported for steps 2 and 5 since the extraction solutions for these steps contain high levels of sodium. The sum of steps 1 through 7 is much higher than the total result for sodium and magnesium due to the magnesium and sodium introduced by the extraction solutions.

The digestates for steps 1, 2 and 5 were analyzed at a dilution due to instrument problems caused by the high solids content of the digestates. The reporting limits were adjusted accordingly.

Method 6010B: The serial dilution performed for the following samples associated with batch 140-60348 was outside control limits: (140-26651-A-1-A SD), (140-26651-A-1-A SD ^5) and (140-26651-A-1-A SD ^50)

Method 6010B: The following sample was diluted due to the presence of Titanium which interferes with Cobalt: B-117D (52-52.5') (140-26651-1). Elevated reporting limits (RLs) are provided.

Methods 6010B, 6010B SEP: The following sample was diluted to bring the concentration of target analyte, Aluminum, within the calibration range: B-117D (52-52.5') (140-26651-1). Elevated reporting limits (RLs) are provided.

Method 6010B SEP: The sample duplicate (DUP) precision for preparation batch 140-60023, 140-60073 and 140-60153 and analytical batch 140-60317 was outside control limits. Sample matrix interference is suspected.

Method 6010B SEP: The serial dilution performed for the following sample associated with batch 140-60317 was outside control limits: B-117D (52-52.5') (140-26651-1) Sample matrix effects suspected.

Method 6010B SEP: The sample duplicate (DUP) precision for preparation batch 140-60194 and analytical batch 140-60348 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Sample Summary

Client: Golder Associates Inc.  
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-26651-1	B-117D (52-52.5')	Solid	12/08/21 10:19	01/12/22 10:00

1

2

3

4

5

6

7

8

9

10

11

12

13



# Client Sample Results

Client: Golder Associates Inc.  
 Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

**Client Sample ID: B-117D (52-52.5')**

**Lab Sample ID: 140-26651-1**

Date Collected: 12/08/21 10:19

Matrix: Solid

Date Received: 01/12/22 10:00

Percent Solids: 99.8

**Method: 6010B SEP - SEP Metals (ICP) - Step 1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		40	6.4	mg/Kg	✳	03/23/22 08:00	03/31/22 12:55	4
Arsenic	ND		2.0	0.52	mg/Kg	✳	03/23/22 08:00	03/31/22 12:55	4
Boron	ND		40	40	mg/Kg	✳	03/23/22 08:00	03/31/22 12:55	4
Cobalt	ND		10	0.18	mg/Kg	✳	03/23/22 08:00	03/31/22 12:55	4
Iron	ND		20	12	mg/Kg	✳	03/23/22 08:00	03/31/22 12:55	4
Lithium	ND		10	0.60	mg/Kg	✳	03/23/22 08:00	03/31/22 12:55	4
<b>Manganese</b>	<b>2.0</b>	<b>J</b>	3.0	0.12	mg/Kg	✳	03/23/22 08:00	03/31/22 12:55	4
Molybdenum	ND		8.0	0.33	mg/Kg	✳	03/23/22 08:00	03/31/22 12:55	4

**Method: 6010B SEP - SEP Metals (ICP) - Step 2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		30	4.8	mg/Kg	✳	03/24/22 08:00	03/31/22 13:35	3
Arsenic	ND		1.5	0.39	mg/Kg	✳	03/24/22 08:00	03/31/22 13:35	3
Boron	ND		30	30	mg/Kg	✳	03/24/22 08:00	03/31/22 13:35	3
Cobalt	ND		7.5	0.19	mg/Kg	✳	03/24/22 08:00	03/31/22 13:35	3
Iron	ND		15	8.7	mg/Kg	✳	03/24/22 08:00	03/31/22 13:35	3
Lithium	ND		7.5	0.45	mg/Kg	✳	03/24/22 08:00	03/31/22 13:35	3
<b>Manganese</b>	<b>2.8</b>		2.3	0.84	mg/Kg	✳	03/24/22 08:00	03/31/22 13:35	3
Molybdenum	ND		6.0	0.25	mg/Kg	✳	03/24/22 08:00	03/31/22 13:35	3

**Method: 6010B SEP - SEP Metals (ICP) - Step 3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>19</b>		10	2.1	mg/Kg	✳	03/25/22 08:00	03/31/22 14:15	1
Arsenic	ND		0.50	0.13	mg/Kg	✳	03/25/22 08:00	03/31/22 14:15	1
Boron	ND		10	10	mg/Kg	✳	03/25/22 08:00	03/31/22 14:15	1
<b>Cobalt</b>	<b>0.13</b>	<b>J</b>	2.5	0.045	mg/Kg	✳	03/25/22 08:00	03/31/22 14:15	1
<b>Iron</b>	<b>15</b>		5.0	2.9	mg/Kg	✳	03/25/22 08:00	03/31/22 14:15	1
Lithium	ND		2.5	0.15	mg/Kg	✳	03/25/22 08:00	03/31/22 14:15	1
<b>Manganese</b>	<b>12</b>	<b>B</b>	0.75	0.027	mg/Kg	✳	03/25/22 08:00	03/31/22 14:15	1
Molybdenum	ND		2.0	0.082	mg/Kg	✳	03/25/22 08:00	03/31/22 14:15	1

**Method: 6010B SEP - SEP Metals (ICP) - Step 4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>460</b>		10	1.6	mg/Kg	✳	03/26/22 08:00	03/31/22 14:54	1
Arsenic	ND		0.50	0.22	mg/Kg	✳	03/26/22 08:00	03/31/22 14:54	1
Boron	ND		10	10	mg/Kg	✳	03/26/22 08:00	03/31/22 14:54	1
<b>Cobalt</b>	<b>0.31</b>	<b>J</b>	2.5	0.053	mg/Kg	✳	03/26/22 08:00	03/31/22 14:54	1
<b>Iron</b>	<b>740</b>		5.0	2.9	mg/Kg	✳	03/26/22 08:00	03/31/22 14:54	1
<b>Lithium</b>	<b>0.82</b>	<b>J</b>	2.5	0.15	mg/Kg	✳	03/26/22 08:00	03/31/22 14:54	1
<b>Manganese</b>	<b>17</b>		0.75	0.13	mg/Kg	✳	03/26/22 08:00	03/31/22 14:54	1
Molybdenum	ND		2.0	0.082	mg/Kg	✳	03/26/22 08:00	03/31/22 14:54	1

**Method: 6010B SEP - SEP Metals (ICP) - Step 5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>96</b>	<b>J</b>	150	24	mg/Kg	✳	03/28/22 08:00	03/31/22 15:34	5
Arsenic	ND		7.5	1.9	mg/Kg	✳	03/28/22 08:00	03/31/22 15:34	5
Boron	ND		150	150	mg/Kg	✳	03/28/22 08:00	03/31/22 15:34	5
Cobalt	ND		38	0.60	mg/Kg	✳	03/28/22 08:00	03/31/22 15:34	5
Iron	ND		75	44	mg/Kg	✳	03/28/22 08:00	03/31/22 15:34	5
Lithium	ND		38	2.2	mg/Kg	✳	03/28/22 08:00	03/31/22 15:34	5

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# Client Sample Results

Client: Golder Associates Inc.  
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

**Client Sample ID: B-117D (52-52.5')**

**Lab Sample ID: 140-26651-1**

Date Collected: 12/08/21 10:19

Matrix: Solid

Date Received: 01/12/22 10:00

Percent Solids: 99.8

**Method: 6010B SEP - SEP Metals (ICP) - Step 5 (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		11	1.9	mg/Kg	☆	03/28/22 08:00	03/31/22 15:34	5
Molybdenum	ND		30	1.3	mg/Kg	☆	03/28/22 08:00	03/31/22 15:34	5

**Method: 6010B SEP - SEP Metals (ICP) - Step 6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4700		10	1.6	mg/Kg	☆	03/28/22 08:00	03/31/22 16:19	1
Arsenic	0.69		0.50	0.15	mg/Kg	☆	03/28/22 08:00	03/31/22 16:19	1
Boron	ND		10	10	mg/Kg	☆	03/28/22 08:00	03/31/22 16:19	1
Cobalt	2.9		2.5	0.046	mg/Kg	☆	03/28/22 08:00	03/31/22 16:19	1
Iron	6700		5.0	2.9	mg/Kg	☆	03/28/22 08:00	03/31/22 16:19	1
Lithium	13		2.5	0.15	mg/Kg	☆	03/28/22 08:00	03/31/22 16:19	1
Manganese	150		0.75	0.25	mg/Kg	☆	03/28/22 08:00	03/31/22 16:19	1
Molybdenum	ND		2.0	0.099	mg/Kg	☆	03/28/22 08:00	03/31/22 16:19	1

**Method: 6010B SEP - SEP Metals (ICP) - Step 7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	52000		100	16	mg/Kg	☆	03/29/22 08:00	04/01/22 12:19	10
Arsenic	0.76	B	0.50	0.13	mg/Kg	☆	03/29/22 08:00	04/01/22 12:49	1
Cobalt	0.50	J	2.5	0.026	mg/Kg	☆	03/29/22 08:00	04/01/22 12:49	1
Iron	3700		5.0	4.1	mg/Kg	☆	03/29/22 08:00	04/01/22 12:49	1
Lithium	6.0		2.5	0.15	mg/Kg	☆	03/29/22 08:00	04/01/22 12:49	1
Manganese	89		0.75	0.11	mg/Kg	☆	03/29/22 08:00	04/01/22 12:49	1
Molybdenum	ND		2.0	0.082	mg/Kg	☆	03/29/22 08:00	04/01/22 12:49	1

**Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	57000		10	1.6	mg/Kg			04/04/22 11:23	1
Arsenic	1.5		0.50	0.13	mg/Kg			04/04/22 11:23	1
Cobalt	3.8		2.5	0.023	mg/Kg			04/04/22 11:23	1
Iron	11000		5.0	4.1	mg/Kg			04/04/22 11:23	1
Lithium	20		2.5	0.15	mg/Kg			04/04/22 11:23	1
Manganese	280		0.75	0.052	mg/Kg			04/04/22 11:23	1
Molybdenum	ND		2.0	0.082	mg/Kg			04/04/22 11:23	1

**Method: 6010B - SEP Metals (ICP) - Total**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	52000		100	16	mg/Kg	☆	03/22/22 08:00	04/01/22 12:34	10
Arsenic	1.3	B	0.50	0.13	mg/Kg	☆	03/22/22 08:00	04/01/22 13:14	1
Cobalt	3.6	J	5.0	0.052	mg/Kg	☆	03/22/22 08:00	04/01/22 13:35	2
Iron	11000		5.0	4.1	mg/Kg	☆	03/22/22 08:00	04/01/22 13:14	1
Lithium	19		2.5	0.15	mg/Kg	☆	03/22/22 08:00	04/01/22 13:14	1
Manganese	280		0.75	0.11	mg/Kg	☆	03/22/22 08:00	04/01/22 13:14	1
Molybdenum	0.083	J	2.0	0.082	mg/Kg	☆	03/22/22 08:00	04/01/22 13:14	1

# Default Detection Limits

Client: Golder Associates Inc.  
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

## Method: 6010B SEP - SEP Metals (ICP) - Step 1

Prep: 3010A

SEP: Exchangeable

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Arsenic	0.50	0.13	mg/Kg
Boron	10	10	mg/Kg
Cobalt	2.5	0.045	mg/Kg
Iron	5.0	2.9	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.031	mg/Kg
Molybdenum	2.0	0.082	mg/Kg

## Method: 6010B SEP - SEP Metals (ICP) - Step 2

Prep: 3010A

SEP: Carbonate

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Arsenic	0.50	0.13	mg/Kg
Boron	10	10	mg/Kg
Cobalt	2.5	0.063	mg/Kg
Iron	5.0	2.9	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.28	mg/Kg
Molybdenum	2.0	0.082	mg/Kg

## Method: 6010B SEP - SEP Metals (ICP) - Step 3

Prep: 3010A

SEP: Non-Crystalline

Analyte	RL	MDL	Units
Aluminum	10	2.1	mg/Kg
Arsenic	0.50	0.13	mg/Kg
Boron	10	10	mg/Kg
Cobalt	2.5	0.045	mg/Kg
Iron	5.0	2.9	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.027	mg/Kg
Molybdenum	2.0	0.082	mg/Kg

## Method: 6010B SEP - SEP Metals (ICP) - Step 4

Prep: 3010A

SEP: Metal Hydroxide

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Arsenic	0.50	0.22	mg/Kg
Boron	10	10	mg/Kg
Cobalt	2.5	0.053	mg/Kg
Iron	5.0	2.9	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.13	mg/Kg
Molybdenum	2.0	0.082	mg/Kg

## Method: 6010B SEP - SEP Metals (ICP) - Step 5

Prep: 3010A

## Default Detection Limits

Client: Golder Associates Inc.  
 Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

### Method: 6010B SEP - SEP Metals (ICP) - Step 5

Prep: 3010A

SEP: Organic-Bound

Analyte	RL	MDL	Units
Aluminum	30	4.7	mg/Kg
Arsenic	1.5	0.38	mg/Kg
Boron	30	30	mg/Kg
Cobalt	7.5	0.12	mg/Kg
Iron	15	8.8	mg/Kg
Lithium	7.5	0.44	mg/Kg
Manganese	2.3	0.37	mg/Kg
Molybdenum	6.0	0.25	mg/Kg

### Method: 6010B SEP - SEP Metals (ICP) - Step 6

SEP: Acid/Sulfide

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Arsenic	0.50	0.15	mg/Kg
Boron	10	10	mg/Kg
Cobalt	2.5	0.046	mg/Kg
Iron	5.0	2.9	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.25	mg/Kg
Molybdenum	2.0	0.099	mg/Kg

### Method: 6010B SEP - SEP Metals (ICP) - Step 7

Prep: Residual

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Arsenic	0.50	0.13	mg/Kg
Cobalt	2.5	0.026	mg/Kg
Iron	5.0	4.1	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.11	mg/Kg
Molybdenum	2.0	0.082	mg/Kg

### Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Arsenic	0.50	0.13	mg/Kg
Cobalt	2.5	0.023	mg/Kg
Iron	5.0	4.1	mg/Kg
Lithium	2.5	0.15	mg/Kg
Manganese	0.75	0.052	mg/Kg
Molybdenum	2.0	0.082	mg/Kg

### Method: 6010B - SEP Metals (ICP) - Total

Prep: Total

Analyte	RL	MDL	Units
Aluminum	10	1.6	mg/Kg
Arsenic	0.50	0.13	mg/Kg
Cobalt	2.5	0.026	mg/Kg
Iron	5.0	4.1	mg/Kg
Lithium	2.5	0.15	mg/Kg

# Default Detection Limits

Client: Golder Associates Inc.  
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

## Method: 6010B - SEP Metals (ICP) - Total (Continued)

### Prep: Total

Analyte	RL	MDL	Units
Manganese	0.75	0.11	mg/Kg
Molybdenum	2.0	0.082	mg/Kg

1

2

3

4

5

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# QC Sample Results

Client: Golder Associates Inc.  
 Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

## Method: 6010B - SEP Metals (ICP) - Total

**Lab Sample ID: MB 140-59914/3-A**  
**Matrix: Solid**  
**Analysis Batch: 60348**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 59914**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	ND		10	1.6	mg/Kg		03/22/22 08:00	04/01/22 11:45	1
Arsenic	0.317	J	0.50	0.13	mg/Kg		03/22/22 08:00	04/01/22 11:45	1
Cobalt	ND		2.5	0.026	mg/Kg		03/22/22 08:00	04/01/22 11:45	1
Iron	ND		5.0	4.1	mg/Kg		03/22/22 08:00	04/01/22 11:45	1
Lithium	ND		2.5	0.15	mg/Kg		03/22/22 08:00	04/01/22 11:45	1
Manganese	ND		0.75	0.11	mg/Kg		03/22/22 08:00	04/01/22 11:45	1
Molybdenum	ND		2.0	0.082	mg/Kg		03/22/22 08:00	04/01/22 11:45	1

**Lab Sample ID: LCS 140-59914/4-A**  
**Matrix: Solid**  
**Analysis Batch: 60348**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 59914**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Aluminum	100	100		mg/Kg		100	80 - 120	
Arsenic	5.00	5.49		mg/Kg		110	80 - 120	
Cobalt	5.00	5.25		mg/Kg		105	80 - 125	
Iron	50.0	52.8		mg/Kg		106	80 - 120	
Lithium	5.00	5.17		mg/Kg		103	80 - 120	
Manganese	5.00	5.32		mg/Kg		106	80 - 120	
Molybdenum	25.0	27.4		mg/Kg		110	80 - 125	

**Lab Sample ID: LCSD 140-59914/5-A**  
**Matrix: Solid**  
**Analysis Batch: 60348**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 59914**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits		RPD	Limit
Aluminum	100	97.5		mg/Kg		98	80 - 120	3	30	
Arsenic	5.00	5.25		mg/Kg		105	80 - 120	4	30	
Cobalt	5.00	5.09		mg/Kg		102	80 - 125	3	30	
Iron	50.0	52.6		mg/Kg		105	80 - 120	1	30	
Lithium	5.00	5.06		mg/Kg		101	80 - 120	2	30	
Manganese	5.00	5.21		mg/Kg		104	80 - 120	2	30	
Molybdenum	25.0	26.6		mg/Kg		106	80 - 125	3	30	

**Lab Sample ID: 140-26651-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 60348**

**Client Sample ID: B-117D (52-52.5')**  
**Prep Type: Total/NA**  
**Prep Batch: 59914**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Aluminum	52000		56100		mg/Kg	✱	8	30

**Lab Sample ID: 140-26651-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 60348**

**Client Sample ID: B-117D (52-52.5')**  
**Prep Type: Total/NA**  
**Prep Batch: 59914**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Arsenic	1.3	B	1.28		mg/Kg	✱	4	30
Iron	11000		12400		mg/Kg	✱	9	30
Lithium	19		22.0		mg/Kg	✱	14	30

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# QC Sample Results

Client: Golder Associates Inc.  
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

## Method: 6010B - SEP Metals (ICP) - Total (Continued)

Lab Sample ID: 140-26651-1 DU  
Matrix: Solid  
Analysis Batch: 60348

Client Sample ID: B-117D (52-52.5')  
Prep Type: Total/NA  
Prep Batch: 59914

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Manganese	280		316		mg/Kg	☼	12	30
Molybdenum	0.083	J	ND		mg/Kg	☼	NC	30

Lab Sample ID: 140-26651-1 DU  
Matrix: Solid  
Analysis Batch: 60348

Client Sample ID: B-117D (52-52.5')  
Prep Type: Total/NA  
Prep Batch: 59914

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cobalt	3.6	J	3.92	J	mg/Kg	☼	10	30

## Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: MB 140-59915/3-B ^4  
Matrix: Solid  
Analysis Batch: 60317

Client Sample ID: Method Blank  
Prep Type: Step 1  
Prep Batch: 59968

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		40	6.4	mg/Kg		03/23/22 08:00	03/31/22 12:41	4
Arsenic	ND		2.0	0.52	mg/Kg		03/23/22 08:00	03/31/22 12:41	4
Boron	ND		40	40	mg/Kg		03/23/22 08:00	03/31/22 12:41	4
Cobalt	ND		10	0.18	mg/Kg		03/23/22 08:00	03/31/22 12:41	4
Iron	ND		20	12	mg/Kg		03/23/22 08:00	03/31/22 12:41	4
Lithium	ND		10	0.60	mg/Kg		03/23/22 08:00	03/31/22 12:41	4
Manganese	ND		3.0	0.12	mg/Kg		03/23/22 08:00	03/31/22 12:41	4
Molybdenum	ND		8.0	0.33	mg/Kg		03/23/22 08:00	03/31/22 12:41	4

Lab Sample ID: LCS 140-59915/4-B ^5  
Matrix: Solid  
Analysis Batch: 60317

Client Sample ID: Lab Control Sample  
Prep Type: Step 1  
Prep Batch: 59968

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	100	100		mg/Kg		100	80 - 120
Arsenic	5.00	4.96		mg/Kg		99	80 - 120
Boron	50.0	50.5		mg/Kg		101	
Cobalt	5.00	5.04	J	mg/Kg		101	80 - 120
Iron	50.0	51.3		mg/Kg		103	80 - 120
Lithium	5.00	5.04	J	mg/Kg		101	80 - 120
Manganese	5.00	5.23		mg/Kg		105	80 - 120
Molybdenum	25.0	25.1		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 140-59915/5-B ^5  
Matrix: Solid  
Analysis Batch: 60317

Client Sample ID: Lab Control Sample Dup  
Prep Type: Step 1  
Prep Batch: 59968

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	100	106		mg/Kg		106	80 - 120	5	30
Arsenic	5.00	5.27		mg/Kg		105	80 - 120	6	30
Boron	50.0	51.9		mg/Kg		104		3	
Cobalt	5.00	5.22	J	mg/Kg		104	80 - 120	4	30
Iron	50.0	53.7		mg/Kg		107	80 - 120	5	30

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# QC Sample Results

Client: Golder Associates Inc.  
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

## Method: 6010B SEP - SEP Metals (ICP) (Continued)

**Lab Sample ID: LCSD 140-59915/5-B ^5**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Step 1**  
**Prep Batch: 59968**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	5.00	5.22	J	mg/Kg		104	80 - 120	3	30
Manganese	5.00	5.39		mg/Kg		108	80 - 120	3	30
Molybdenum	25.0	25.9		mg/Kg		104	80 - 120	3	30

**Lab Sample ID: 140-26651-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: B-117D (52-52.5')**  
**Prep Type: Step 1**  
**Prep Batch: 59968**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	ND		ND		mg/Kg	⊛	NC	30
Arsenic	ND		ND		mg/Kg	⊛	NC	30
Boron	ND		ND		mg/Kg	⊛	NC	
Cobalt	ND		ND		mg/Kg	⊛	NC	30
Iron	ND		ND		mg/Kg	⊛	NC	30
Lithium	ND		ND		mg/Kg	⊛	NC	30
Manganese	2.0	J	1.93	J	mg/Kg	⊛	5	30
Molybdenum	ND		ND		mg/Kg	⊛	NC	30

**Lab Sample ID: MB 140-59969/3-B ^3**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: Method Blank**  
**Prep Type: Step 2**  
**Prep Batch: 60022**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		30	4.8	mg/Kg		03/24/22 08:00	03/31/22 13:20	3
Arsenic	ND		1.5	0.39	mg/Kg		03/24/22 08:00	03/31/22 13:20	3
Boron	ND		30	30	mg/Kg		03/24/22 08:00	03/31/22 13:20	3
Cobalt	ND		7.5	0.19	mg/Kg		03/24/22 08:00	03/31/22 13:20	3
Iron	ND		15	8.7	mg/Kg		03/24/22 08:00	03/31/22 13:20	3
Lithium	ND		7.5	0.45	mg/Kg		03/24/22 08:00	03/31/22 13:20	3
Manganese	ND		2.3	0.84	mg/Kg		03/24/22 08:00	03/31/22 13:20	3
Molybdenum	ND		6.0	0.25	mg/Kg		03/24/22 08:00	03/31/22 13:20	3

**Lab Sample ID: LCS 140-59969/4-B ^5**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Step 2**  
**Prep Batch: 60022**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	100	ND		mg/Kg		-2	
Arsenic	5.00	3.95		mg/Kg		79	60 - 120
Boron	50.0	ND		mg/Kg		94	
Cobalt	5.00	4.76	J	mg/Kg		95	80 - 120
Iron	50.0	ND		mg/Kg		2	
Lithium	5.00	4.68	J	mg/Kg		94	80 - 120
Manganese	5.00	4.92		mg/Kg		98	80 - 120
Molybdenum	25.0	21.3		mg/Kg		85	70 - 120



# QC Sample Results

Client: Golder Associates Inc.  
 Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

## Method: 6010B SEP - SEP Metals (ICP) (Continued)

**Lab Sample ID: LCSD 140-59969/5-B ^5**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Step 2**  
**Prep Batch: 60022**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	100	ND		mg/Kg		-0.9		52	
Arsenic	5.00	3.63		mg/Kg		73	60 - 120	8	30
Boron	50.0	ND		mg/Kg		92		2	
Cobalt	5.00	4.67	J	mg/Kg		93	80 - 120	2	30
Iron	50.0	ND		mg/Kg		2		28	
Lithium	5.00	4.63	J	mg/Kg		93	80 - 120	1	30
Manganese	5.00	4.87		mg/Kg		97	80 - 120	1	30
Molybdenum	25.0	21.0		mg/Kg		84	70 - 120	1	30

**Lab Sample ID: 140-26651-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: B-117D (52-52.5')**  
**Prep Type: Step 2**  
**Prep Batch: 60022**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	ND		5.02	J	mg/Kg	☼	NC	
Arsenic	ND		ND		mg/Kg	☼	NC	30
Boron	ND		ND		mg/Kg	☼	NC	
Cobalt	ND		ND		mg/Kg	☼	NC	30
Iron	ND		ND		mg/Kg	☼	NC	
Lithium	ND		ND		mg/Kg	☼	NC	30
Manganese	2.8		3.46		mg/Kg	☼	22	30
Molybdenum	ND		ND		mg/Kg	☼	NC	30

**Lab Sample ID: MB 140-60023/3-B**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: Method Blank**  
**Prep Type: Step 3**  
**Prep Batch: 60073**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	2.1	mg/Kg		03/25/22 08:00	03/31/22 14:00	1
Arsenic	ND		0.50	0.13	mg/Kg		03/25/22 08:00	03/31/22 14:00	1
Boron	ND		10	10	mg/Kg		03/25/22 08:00	03/31/22 14:00	1
Cobalt	ND		2.5	0.045	mg/Kg		03/25/22 08:00	03/31/22 14:00	1
Iron	ND		5.0	2.9	mg/Kg		03/25/22 08:00	03/31/22 14:00	1
Lithium	ND		2.5	0.15	mg/Kg		03/25/22 08:00	03/31/22 14:00	1
Manganese	0.0940	J	0.75	0.027	mg/Kg		03/25/22 08:00	03/31/22 14:00	1
Molybdenum	ND		2.0	0.082	mg/Kg		03/25/22 08:00	03/31/22 14:00	1

**Lab Sample ID: LCS 140-60023/4-B**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Step 3**  
**Prep Batch: 60073**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	100	99.3		mg/Kg		99	80 - 120
Arsenic	5.00	5.05		mg/Kg		101	80 - 120
Boron	50.0	50.8		mg/Kg		102	
Cobalt	5.00	5.16		mg/Kg		103	80 - 120
Iron	50.0	53.1		mg/Kg		106	80 - 120
Lithium	5.00	5.07		mg/Kg		101	80 - 120
Manganese	5.00	5.21		mg/Kg		104	80 - 120

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# QC Sample Results

Client: Golder Associates Inc.  
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

## Method: 6010B SEP - SEP Metals (ICP) (Continued)

**Lab Sample ID: LCS 140-60023/4-B**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Step 3**  
**Prep Batch: 60073**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	25.0	25.6		mg/Kg		102	80 - 120

**Lab Sample ID: LCSD 140-60023/5-B**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Step 3**  
**Prep Batch: 60073**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	100	98.4		mg/Kg		98	80 - 120	1	30
Arsenic	5.00	5.03		mg/Kg		101	80 - 120	0	30
Boron	50.0	50.5		mg/Kg		101		1	
Cobalt	5.00	5.13		mg/Kg		103	80 - 120	1	30
Iron	50.0	52.8		mg/Kg		106	80 - 120	1	30
Lithium	5.00	5.03		mg/Kg		101	80 - 120	1	30
Manganese	5.00	5.14		mg/Kg		103	80 - 120	1	30
Molybdenum	25.0	25.7		mg/Kg		103	80 - 120	1	30

**Lab Sample ID: 140-26651-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: B-117D (52-52.5')**  
**Prep Type: Step 3**  
**Prep Batch: 60073**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	19		18.9		mg/Kg	⊛	0.6	30
Arsenic	ND		ND		mg/Kg	⊛	NC	30
Boron	ND		ND		mg/Kg	⊛	NC	
Cobalt	0.13	J	0.145	J	mg/Kg	⊛	11	30
Iron	15		17.5		mg/Kg	⊛	13	30
Lithium	ND		ND		mg/Kg	⊛	NC	30
Manganese	12	B	17.5	F3	mg/Kg	⊛	34	30
Molybdenum	ND		ND		mg/Kg	⊛	NC	30

**Lab Sample ID: MB 140-60074/3-B**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: Method Blank**  
**Prep Type: Step 4**  
**Prep Batch: 60125**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	1.6	mg/Kg		03/26/22 08:00	03/31/22 14:40	1
Arsenic	ND		0.50	0.22	mg/Kg		03/26/22 08:00	03/31/22 14:40	1
Boron	ND		10	10	mg/Kg		03/26/22 08:00	03/31/22 14:40	1
Cobalt	ND		2.5	0.053	mg/Kg		03/26/22 08:00	03/31/22 14:40	1
Iron	ND		5.0	2.9	mg/Kg		03/26/22 08:00	03/31/22 14:40	1
Lithium	ND		2.5	0.15	mg/Kg		03/26/22 08:00	03/31/22 14:40	1
Manganese	ND		0.75	0.13	mg/Kg		03/26/22 08:00	03/31/22 14:40	1
Molybdenum	ND		2.0	0.082	mg/Kg		03/26/22 08:00	03/31/22 14:40	1

**Lab Sample ID: LCS 140-60074/4-B**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Step 4**  
**Prep Batch: 60125**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	100	101		mg/Kg		101	80 - 120

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# QC Sample Results

Client: Golder Associates Inc.  
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

## Method: 6010B SEP - SEP Metals (ICP) (Continued)

**Lab Sample ID: LCS 140-60074/4-B**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Step 4**  
**Prep Batch: 60125**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	5.00	5.20		mg/Kg		104	80 - 130
Boron	50.0	50.7		mg/Kg		101	
Cobalt	5.00	5.24		mg/Kg		105	80 - 120
Iron	50.0	52.7		mg/Kg		105	80 - 120
Lithium	5.00	5.15		mg/Kg		103	80 - 120
Manganese	5.00	5.26		mg/Kg		105	80 - 120
Molybdenum	25.0	26.9		mg/Kg		108	80 - 120

**Lab Sample ID: LCSD 140-60074/5-B**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Step 4**  
**Prep Batch: 60125**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	100	101		mg/Kg		101	80 - 120	1	30
Arsenic	5.00	5.33		mg/Kg		107	80 - 130	3	30
Boron	50.0	51.4		mg/Kg		103		1	
Cobalt	5.00	5.36		mg/Kg		107	80 - 120	2	30
Iron	50.0	53.8		mg/Kg		108	80 - 120	2	30
Lithium	5.00	5.23		mg/Kg		105	80 - 120	2	30
Manganese	5.00	5.34		mg/Kg		107	80 - 120	1	30
Molybdenum	25.0	27.3		mg/Kg		109	80 - 120	1	30

**Lab Sample ID: 140-26651-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: B-117D (52-52.5')**  
**Prep Type: Step 4**  
**Prep Batch: 60125**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	460		445		mg/Kg	✖	2	30
Arsenic	ND		ND		mg/Kg	✖	NC	30
Boron	ND		ND		mg/Kg	✖	NC	
Cobalt	0.31	J	0.300	J	mg/Kg	✖	2	30
Iron	740		730		mg/Kg	✖	2	30
Lithium	0.82	J	0.861	J	mg/Kg	✖	4	30
Manganese	17		18.6		mg/Kg	✖	6	30
Molybdenum	ND		ND		mg/Kg	✖	NC	30

**Lab Sample ID: MB 140-60126/3-B ^5**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: Method Blank**  
**Prep Type: Step 5**  
**Prep Batch: 60152**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		150	24	mg/Kg		03/28/22 08:00	03/31/22 15:18	5
Arsenic	ND		7.5	1.9	mg/Kg		03/28/22 08:00	03/31/22 15:18	5
Boron	ND		150	150	mg/Kg		03/28/22 08:00	03/31/22 15:18	5
Cobalt	ND		38	0.60	mg/Kg		03/28/22 08:00	03/31/22 15:18	5
Iron	ND		75	44	mg/Kg		03/28/22 08:00	03/31/22 15:18	5
Lithium	ND		38	2.2	mg/Kg		03/28/22 08:00	03/31/22 15:18	5
Manganese	ND		11	1.9	mg/Kg		03/28/22 08:00	03/31/22 15:18	5
Molybdenum	ND		30	1.3	mg/Kg		03/28/22 08:00	03/31/22 15:18	5

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# QC Sample Results

Client: Golder Associates Inc.  
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

## Method: 6010B SEP - SEP Metals (ICP) (Continued)

**Lab Sample ID: LCS 140-60126/4-B ^5**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Step 5**  
**Prep Batch: 60152**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	300	ND		mg/Kg		7	
Arsenic	15.0	10.3		mg/Kg		69	60 - 100
Boron	150	159		mg/Kg		106	
Cobalt	15.0	ND		mg/Kg		3	1 - 60
Iron	150	ND		mg/Kg		0.9	
Lithium	15.0	16.2	J	mg/Kg		108	80 - 150
Manganese	15.0	3.29	J	mg/Kg		22	1 - 60
Molybdenum	75.0	59.0		mg/Kg		79	60 - 100

**Lab Sample ID: LCSD 140-60126/5-B ^5**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Step 5**  
**Prep Batch: 60152**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	300	ND		mg/Kg		2		96	
Arsenic	15.0	10.0		mg/Kg		67	60 - 100	2	30
Boron	150	160		mg/Kg		107		0	
Cobalt	15.0	ND		mg/Kg		2	1 - 60	19	30
Iron	150	ND		mg/Kg		0.9		1	
Lithium	15.0	16.2	J	mg/Kg		108	80 - 150	0	30
Manganese	15.0	3.79	J	mg/Kg		25	1 - 60	14	30
Molybdenum	75.0	59.4		mg/Kg		79	60 - 100	1	30

**Lab Sample ID: 140-26651-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: B-117D (52-52.5')**  
**Prep Type: Step 5**  
**Prep Batch: 60152**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	96	J	94.5	J	mg/Kg	✱	1	
Arsenic	ND		ND		mg/Kg	✱	NC	30
Boron	ND		ND		mg/Kg	✱	NC	
Cobalt	ND		ND		mg/Kg	✱	NC	30
Iron	ND		ND		mg/Kg	✱	NC	
Lithium	ND		ND		mg/Kg	✱	NC	30
Manganese	ND		ND		mg/Kg	✱	NC	30
Molybdenum	ND		ND		mg/Kg	✱	NC	30

**Lab Sample ID: MB 140-60153/3-A**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: Method Blank**  
**Prep Type: Step 6**  
**Prep Batch: 60153**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	1.6	mg/Kg		03/28/22 08:00	03/31/22 16:05	1
Arsenic	ND		0.50	0.15	mg/Kg		03/28/22 08:00	03/31/22 16:05	1
Boron	ND		10	10	mg/Kg		03/28/22 08:00	03/31/22 16:05	1
Cobalt	ND		2.5	0.046	mg/Kg		03/28/22 08:00	03/31/22 16:05	1
Iron	ND		5.0	2.9	mg/Kg		03/28/22 08:00	03/31/22 16:05	1
Lithium	ND		2.5	0.15	mg/Kg		03/28/22 08:00	03/31/22 16:05	1
Manganese	ND		0.75	0.25	mg/Kg		03/28/22 08:00	03/31/22 16:05	1

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# QC Sample Results

Client: Golder Associates Inc.  
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

## Method: 6010B SEP - SEP Metals (ICP) (Continued)

**Lab Sample ID: MB 140-60153/3-A**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: Method Blank**  
**Prep Type: Step 6**  
**Prep Batch: 60153**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		2.0	0.099	mg/Kg		03/28/22 08:00	03/31/22 16:05	1

**Lab Sample ID: LCS 140-60153/4-A**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Step 6**  
**Prep Batch: 60153**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	100	103		mg/Kg		103	80 - 120
Arsenic	5.00	5.50		mg/Kg		110	80 - 120
Boron	50.0	56.3		mg/Kg		113	
Cobalt	5.00	5.35		mg/Kg		107	80 - 120
Iron	50.0	53.0		mg/Kg		106	80 - 120
Lithium	5.00	5.27		mg/Kg		105	80 - 120
Manganese	5.00	5.36		mg/Kg		107	80 - 120
Molybdenum	25.0	26.7		mg/Kg		107	80 - 120

**Lab Sample ID: LCSD 140-60153/5-A**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Step 6**  
**Prep Batch: 60153**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	100	103		mg/Kg		103	80 - 120	0	30
Arsenic	5.00	5.44		mg/Kg		109	80 - 120	1	30
Boron	50.0	57.0		mg/Kg		114		1	
Cobalt	5.00	5.35		mg/Kg		107	80 - 120	0	30
Iron	50.0	53.7		mg/Kg		107	80 - 120	1	30
Lithium	5.00	5.27		mg/Kg		105	80 - 120	0	30
Manganese	5.00	5.41		mg/Kg		108	80 - 120	1	30
Molybdenum	25.0	26.8		mg/Kg		107	80 - 120	0	30

**Lab Sample ID: 140-26651-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 60317**

**Client Sample ID: B-117D (52-52.5')**  
**Prep Type: Step 6**  
**Prep Batch: 60153**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	4700		5210		mg/Kg	⊛	10	30
Arsenic	0.69		0.377	J F5	mg/Kg	⊛	59	30
Boron	ND		ND		mg/Kg	⊛	NC	
Cobalt	2.9		3.21		mg/Kg	⊛	10	30
Iron	6700		7480		mg/Kg	⊛	11	30
Lithium	13		14.4		mg/Kg	⊛	10	30
Manganese	150		175		mg/Kg	⊛	13	30
Molybdenum	ND		ND		mg/Kg	⊛	NC	30

**Lab Sample ID: MB 140-60194/3-A**  
**Matrix: Solid**  
**Analysis Batch: 60348**

**Client Sample ID: Method Blank**  
**Prep Type: Step 7**  
**Prep Batch: 60194**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10	1.6	mg/Kg		03/29/22 08:00	04/01/22 11:30	1

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# QC Sample Results

Client: Golder Associates Inc.  
 Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

## Method: 6010B SEP - SEP Metals (ICP) (Continued)

**Lab Sample ID: MB 140-60194/3-A**  
**Matrix: Solid**  
**Analysis Batch: 60348**

**Client Sample ID: Method Blank**  
**Prep Type: Step 7**  
**Prep Batch: 60194**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.326	J	0.50	0.13	mg/Kg		03/29/22 08:00	04/01/22 11:30	1
Cobalt	ND		2.5	0.026	mg/Kg		03/29/22 08:00	04/01/22 11:30	1
Iron	ND		5.0	4.1	mg/Kg		03/29/22 08:00	04/01/22 11:30	1
Lithium	ND		2.5	0.15	mg/Kg		03/29/22 08:00	04/01/22 11:30	1
Manganese	ND		0.75	0.11	mg/Kg		03/29/22 08:00	04/01/22 11:30	1
Molybdenum	ND		2.0	0.082	mg/Kg		03/29/22 08:00	04/01/22 11:30	1

**Lab Sample ID: LCS 140-60194/4-A**  
**Matrix: Solid**  
**Analysis Batch: 60348**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Step 7**  
**Prep Batch: 60194**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	100	99.8		mg/Kg		100	80 - 120
Arsenic	5.00	5.49		mg/Kg		110	80 - 120
Cobalt	5.00	5.20		mg/Kg		104	80 - 125
Iron	50.0	52.4		mg/Kg		105	80 - 120
Lithium	5.00	5.15		mg/Kg		103	80 - 120
Manganese	5.00	5.35		mg/Kg		107	80 - 120
Molybdenum	25.0	27.1		mg/Kg		108	80 - 125

**Lab Sample ID: LCSD 140-60194/5-A**  
**Matrix: Solid**  
**Analysis Batch: 60348**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Step 7**  
**Prep Batch: 60194**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	100	99.7		mg/Kg		100	80 - 120	0	30
Arsenic	5.00	5.47		mg/Kg		109	80 - 120	0	30
Cobalt	5.00	5.26		mg/Kg		105	80 - 125	1	30
Iron	50.0	52.5		mg/Kg		105	80 - 120	0	30
Lithium	5.00	5.19		mg/Kg		104	80 - 120	1	30
Manganese	5.00	5.35		mg/Kg		107	80 - 120	0	30
Molybdenum	25.0	27.3		mg/Kg		109	80 - 125	1	30

**Lab Sample ID: 140-26651-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 60348**

**Client Sample ID: B-117D (52-52.5')**  
**Prep Type: Step 7**  
**Prep Batch: 60194**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	52000		50800		mg/Kg	⊛	3	30

**Lab Sample ID: 140-26651-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 60348**

**Client Sample ID: B-117D (52-52.5')**  
**Prep Type: Step 7**  
**Prep Batch: 60194**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.76	B	0.753		mg/Kg	⊛	1	30
Cobalt	0.50	J	0.114	J F5	mg/Kg	⊛	125	30
Iron	3700		2810		mg/Kg	⊛	29	30
Lithium	6.0		3.86	F5	mg/Kg	⊛	43	30
Manganese	89		72.1		mg/Kg	⊛	21	30

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# QC Sample Results

Client: Golder Associates Inc.  
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

## Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: 140-26651-1 DU  
Matrix: Solid  
Analysis Batch: 60348

Client Sample ID: B-117D (52-52.5')  
Prep Type: Step 7  
Prep Batch: 60194

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Molybdenum	ND		0.105	J	mg/Kg	✱	NC	30

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# QC Association Summary

Client: Golder Associates Inc.  
 Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

## Metals

### Prep Batch: 59914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Total/NA	Solid	Total	
MB 140-59914/3-A	Method Blank	Total/NA	Solid	Total	
LCS 140-59914/4-A	Lab Control Sample	Total/NA	Solid	Total	
LCSD 140-59914/5-A	Lab Control Sample Dup	Total/NA	Solid	Total	
140-26651-1 DU	B-117D (52-52.5')	Total/NA	Solid	Total	

### SEP Batch: 59915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 1	Solid	Exchangeable	
MB 140-59915/3-B ^4	Method Blank	Step 1	Solid	Exchangeable	
LCS 140-59915/4-B ^5	Lab Control Sample	Step 1	Solid	Exchangeable	
LCSD 140-59915/5-B ^5	Lab Control Sample Dup	Step 1	Solid	Exchangeable	
140-26651-1 DU	B-117D (52-52.5')	Step 1	Solid	Exchangeable	

### Prep Batch: 59968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 1	Solid	3010A	59915
MB 140-59915/3-B ^4	Method Blank	Step 1	Solid	3010A	59915
LCS 140-59915/4-B ^5	Lab Control Sample	Step 1	Solid	3010A	59915
LCSD 140-59915/5-B ^5	Lab Control Sample Dup	Step 1	Solid	3010A	59915
140-26651-1 DU	B-117D (52-52.5')	Step 1	Solid	3010A	59915

### SEP Batch: 59969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 2	Solid	Carbonate	
MB 140-59969/3-B ^3	Method Blank	Step 2	Solid	Carbonate	
LCS 140-59969/4-B ^5	Lab Control Sample	Step 2	Solid	Carbonate	
LCSD 140-59969/5-B ^5	Lab Control Sample Dup	Step 2	Solid	Carbonate	
140-26651-1 DU	B-117D (52-52.5')	Step 2	Solid	Carbonate	

### Prep Batch: 60022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 2	Solid	3010A	59969
MB 140-59969/3-B ^3	Method Blank	Step 2	Solid	3010A	59969
LCS 140-59969/4-B ^5	Lab Control Sample	Step 2	Solid	3010A	59969
LCSD 140-59969/5-B ^5	Lab Control Sample Dup	Step 2	Solid	3010A	59969
140-26651-1 DU	B-117D (52-52.5')	Step 2	Solid	3010A	59969

### SEP Batch: 60023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 3	Solid	Non-Crystalline	
MB 140-60023/3-B	Method Blank	Step 3	Solid	Non-Crystalline	
LCS 140-60023/4-B	Lab Control Sample	Step 3	Solid	Non-Crystalline	
LCSD 140-60023/5-B	Lab Control Sample Dup	Step 3	Solid	Non-Crystalline	
140-26651-1 DU	B-117D (52-52.5')	Step 3	Solid	Non-Crystalline	

### Prep Batch: 60073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 3	Solid	3010A	60023
MB 140-60023/3-B	Method Blank	Step 3	Solid	3010A	60023
LCS 140-60023/4-B	Lab Control Sample	Step 3	Solid	3010A	60023

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# QC Association Summary

Client: Golder Associates Inc.  
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

## Metals (Continued)

### Prep Batch: 60073 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 140-60023/5-B	Lab Control Sample Dup	Step 3	Solid	3010A	60023
140-26651-1 DU	B-117D (52-52.5')	Step 3	Solid	3010A	60023

### SEP Batch: 60074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 4	Solid	Metal Hydroxide	
MB 140-60074/3-B	Method Blank	Step 4	Solid	Metal Hydroxide	
LCS 140-60074/4-B	Lab Control Sample	Step 4	Solid	Metal Hydroxide	
LCSD 140-60074/5-B	Lab Control Sample Dup	Step 4	Solid	Metal Hydroxide	
140-26651-1 DU	B-117D (52-52.5')	Step 4	Solid	Metal Hydroxide	

### Prep Batch: 60125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 4	Solid	3010A	60074
MB 140-60074/3-B	Method Blank	Step 4	Solid	3010A	60074
LCS 140-60074/4-B	Lab Control Sample	Step 4	Solid	3010A	60074
LCSD 140-60074/5-B	Lab Control Sample Dup	Step 4	Solid	3010A	60074
140-26651-1 DU	B-117D (52-52.5')	Step 4	Solid	3010A	60074

### SEP Batch: 60126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 5	Solid	Organic-Bound	
MB 140-60126/3-B ^5	Method Blank	Step 5	Solid	Organic-Bound	
LCS 140-60126/4-B ^5	Lab Control Sample	Step 5	Solid	Organic-Bound	
LCSD 140-60126/5-B ^5	Lab Control Sample Dup	Step 5	Solid	Organic-Bound	
140-26651-1 DU	B-117D (52-52.5')	Step 5	Solid	Organic-Bound	

### Prep Batch: 60152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 5	Solid	3010A	60126
MB 140-60126/3-B ^5	Method Blank	Step 5	Solid	3010A	60126
LCS 140-60126/4-B ^5	Lab Control Sample	Step 5	Solid	3010A	60126
LCSD 140-60126/5-B ^5	Lab Control Sample Dup	Step 5	Solid	3010A	60126
140-26651-1 DU	B-117D (52-52.5')	Step 5	Solid	3010A	60126

### SEP Batch: 60153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 6	Solid	Acid/Sulfide	
MB 140-60153/3-A	Method Blank	Step 6	Solid	Acid/Sulfide	
LCS 140-60153/4-A	Lab Control Sample	Step 6	Solid	Acid/Sulfide	
LCSD 140-60153/5-A	Lab Control Sample Dup	Step 6	Solid	Acid/Sulfide	
140-26651-1 DU	B-117D (52-52.5')	Step 6	Solid	Acid/Sulfide	

### Prep Batch: 60194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 7	Solid	Residual	
MB 140-60194/3-A	Method Blank	Step 7	Solid	Residual	
LCS 140-60194/4-A	Lab Control Sample	Step 7	Solid	Residual	
LCSD 140-60194/5-A	Lab Control Sample Dup	Step 7	Solid	Residual	
140-26651-1 DU	B-117D (52-52.5')	Step 7	Solid	Residual	

# QC Association Summary

Client: Golder Associates Inc.  
 Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

## Metals

### Analysis Batch: 60317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 1	Solid	6010B SEP	59968
140-26651-1	B-117D (52-52.5')	Step 2	Solid	6010B SEP	60022
140-26651-1	B-117D (52-52.5')	Step 3	Solid	6010B SEP	60073
140-26651-1	B-117D (52-52.5')	Step 4	Solid	6010B SEP	60125
140-26651-1	B-117D (52-52.5')	Step 5	Solid	6010B SEP	60152
140-26651-1	B-117D (52-52.5')	Step 6	Solid	6010B SEP	60153
MB 140-59915/3-B ^4	Method Blank	Step 1	Solid	6010B SEP	59968
MB 140-59969/3-B ^3	Method Blank	Step 2	Solid	6010B SEP	60022
MB 140-60023/3-B	Method Blank	Step 3	Solid	6010B SEP	60073
MB 140-60074/3-B	Method Blank	Step 4	Solid	6010B SEP	60125
MB 140-60126/3-B ^5	Method Blank	Step 5	Solid	6010B SEP	60152
MB 140-60153/3-A	Method Blank	Step 6	Solid	6010B SEP	60153
LCS 140-59915/4-B ^5	Lab Control Sample	Step 1	Solid	6010B SEP	59968
LCS 140-59969/4-B ^5	Lab Control Sample	Step 2	Solid	6010B SEP	60022
LCS 140-60023/4-B	Lab Control Sample	Step 3	Solid	6010B SEP	60073
LCS 140-60074/4-B	Lab Control Sample	Step 4	Solid	6010B SEP	60125
LCS 140-60126/4-B ^5	Lab Control Sample	Step 5	Solid	6010B SEP	60152
LCS 140-60153/4-A	Lab Control Sample	Step 6	Solid	6010B SEP	60153
LCSD 140-59915/5-B ^5	Lab Control Sample Dup	Step 1	Solid	6010B SEP	59968
LCSD 140-59969/5-B ^5	Lab Control Sample Dup	Step 2	Solid	6010B SEP	60022
LCSD 140-60023/5-B	Lab Control Sample Dup	Step 3	Solid	6010B SEP	60073
LCSD 140-60074/5-B	Lab Control Sample Dup	Step 4	Solid	6010B SEP	60125
LCSD 140-60126/5-B ^5	Lab Control Sample Dup	Step 5	Solid	6010B SEP	60152
LCSD 140-60153/5-A	Lab Control Sample Dup	Step 6	Solid	6010B SEP	60153
140-26651-1 DU	B-117D (52-52.5')	Step 1	Solid	6010B SEP	59968
140-26651-1 DU	B-117D (52-52.5')	Step 2	Solid	6010B SEP	60022
140-26651-1 DU	B-117D (52-52.5')	Step 3	Solid	6010B SEP	60073
140-26651-1 DU	B-117D (52-52.5')	Step 4	Solid	6010B SEP	60125
140-26651-1 DU	B-117D (52-52.5')	Step 5	Solid	6010B SEP	60152
140-26651-1 DU	B-117D (52-52.5')	Step 6	Solid	6010B SEP	60153

### Analysis Batch: 60348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Step 7	Solid	6010B SEP	60194
140-26651-1	B-117D (52-52.5')	Step 7	Solid	6010B SEP	60194
140-26651-1	B-117D (52-52.5')	Total/NA	Solid	6010B	59914
140-26651-1	B-117D (52-52.5')	Total/NA	Solid	6010B	59914
140-26651-1	B-117D (52-52.5')	Total/NA	Solid	6010B	59914
MB 140-59914/3-A	Method Blank	Total/NA	Solid	6010B	59914
MB 140-60194/3-A	Method Blank	Step 7	Solid	6010B SEP	60194
LCS 140-59914/4-A	Lab Control Sample	Total/NA	Solid	6010B	59914
LCS 140-60194/4-A	Lab Control Sample	Step 7	Solid	6010B SEP	60194
LCSD 140-59914/5-A	Lab Control Sample Dup	Total/NA	Solid	6010B	59914
LCSD 140-60194/5-A	Lab Control Sample Dup	Step 7	Solid	6010B SEP	60194
140-26651-1 DU	B-117D (52-52.5')	Step 7	Solid	6010B SEP	60194
140-26651-1 DU	B-117D (52-52.5')	Step 7	Solid	6010B SEP	60194
140-26651-1 DU	B-117D (52-52.5')	Total/NA	Solid	6010B	59914
140-26651-1 DU	B-117D (52-52.5')	Total/NA	Solid	6010B	59914
140-26651-1 DU	B-117D (52-52.5')	Total/NA	Solid	6010B	59914

# QC Association Summary

Client: Golder Associates Inc.  
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

## Metals

### Analysis Batch: 60414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Sum of Steps 1-7	Solid	6010B SEP	

## General Chemistry

### Analysis Batch: 59970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-26651-1	B-117D (52-52.5')	Total/NA	Solid	Moisture	
140-26651-1 DU	B-117D (52-52.5')	Total/NA	Solid	Moisture	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Lab Chronicle

Client: Golder Associates Inc.  
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

**Client Sample ID: B-117D (52-52.5')**  
**Date Collected: 12/08/21 10:19**  
**Date Received: 01/12/22 10:00**

**Lab Sample ID: 140-26651-1**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			60414	04/04/22 11:23	DKW	TAL KNX
	Instrument ID: NOEQUIP									
Total/NA	Analysis	Moisture		1			59970	03/22/22 14:11	ACW	TAL KNX
	Instrument ID: NOEQUIP									

**Client Sample ID: B-117D (52-52.5')**  
**Date Collected: 12/08/21 10:19**  
**Date Received: 01/12/22 10:00**

**Lab Sample ID: 140-26651-1**  
**Matrix: Solid**  
**Percent Solids: 99.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	59914	03/22/22 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			60348	04/01/22 12:34	JGT	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	59914	03/22/22 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			60348	04/01/22 13:14	JGT	TAL KNX
	Instrument ID: DUO									
Total/NA	Prep	Total			1.000 g	50 mL	59914	03/22/22 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			60348	04/01/22 13:35	JGT	TAL KNX
	Instrument ID: DUO									
Step 1	SEP	Exchangeable			5.000 g	25 mL	59915	03/22/22 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	59968	03/23/22 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			60317	03/31/22 12:55	JGT	TAL KNX
	Instrument ID: DUO									
Step 2	SEP	Carbonate			5.000 g	25 mL	59969	03/23/22 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	60022	03/24/22 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			60317	03/31/22 13:35	JGT	TAL KNX
	Instrument ID: DUO									
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	60023	03/24/22 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	60073	03/25/22 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			60317	03/31/22 14:15	JGT	TAL KNX
	Instrument ID: DUO									
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	60074	03/25/22 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	60125	03/26/22 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			60317	03/31/22 14:54	JGT	TAL KNX
	Instrument ID: DUO									
Step 5	SEP	Organic-Bound			5.000 g	75 mL	60126	03/26/22 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	60152	03/28/22 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			60317	03/31/22 15:34	JGT	TAL KNX
	Instrument ID: DUO									
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	60153	03/28/22 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			60317	03/31/22 16:19	JGT	TAL KNX
	Instrument ID: DUO									
Step 7	Prep	Residual			1.000 g	50 mL	60194	03/29/22 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			60348	04/01/22 12:19	JGT	TAL KNX
	Instrument ID: DUO									

# Lab Chronicle

Client: Golder Associates Inc.  
 Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

**Client Sample ID: B-117D (52-52.5')**  
**Date Collected: 12/08/21 10:19**  
**Date Received: 01/12/22 10:00**

**Lab Sample ID: 140-26651-1**  
**Matrix: Solid**  
**Percent Solids: 99.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	60194	03/29/22 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			60348	04/01/22 12:49	JGT	TAL KNX
Instrument ID: DUO										

**Client Sample ID: Method Blank**  
**Date Collected: N/A**  
**Date Received: N/A**

**Lab Sample ID: MB 140-59914/3-A**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	59914	03/22/22 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			60348	04/01/22 11:45	JGT	TAL KNX
Instrument ID: DUO										

**Client Sample ID: Method Blank**  
**Date Collected: N/A**  
**Date Received: N/A**

**Lab Sample ID: MB 140-59915/3-B ^4**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 1	SEP	Exchangeable			5.000 g	25 mL	59915	03/22/22 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	59968	03/23/22 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			60317	03/31/22 12:41	JGT	TAL KNX
Instrument ID: DUO										

**Client Sample ID: Method Blank**  
**Date Collected: N/A**  
**Date Received: N/A**

**Lab Sample ID: MB 140-59969/3-B ^3**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 2	SEP	Carbonate			5.000 g	25 mL	59969	03/23/22 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	60022	03/24/22 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			60317	03/31/22 13:20	JGT	TAL KNX
Instrument ID: DUO										

**Client Sample ID: Method Blank**  
**Date Collected: N/A**  
**Date Received: N/A**

**Lab Sample ID: MB 140-60023/3-B**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	60023	03/24/22 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	60073	03/25/22 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			60317	03/31/22 14:00	JGT	TAL KNX
Instrument ID: DUO										

# Lab Chronicle

Client: Golder Associates Inc.  
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

## Client Sample ID: Method Blank

Lab Sample ID: MB 140-60074/3-B

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	60074	03/25/22 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	60125	03/26/22 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			60317	03/31/22 14:40	JGT	TAL KNX
Instrument ID: DUO										

## Client Sample ID: Method Blank

Lab Sample ID: MB 140-60126/3-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 5	SEP	Organic-Bound			5.000 g	75 mL	60126	03/26/22 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	60152	03/28/22 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			60317	03/31/22 15:18	JGT	TAL KNX
Instrument ID: DUO										

## Client Sample ID: Method Blank

Lab Sample ID: MB 140-60153/3-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	60153	03/28/22 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			60317	03/31/22 16:05	JGT	TAL KNX
Instrument ID: DUO										

## Client Sample ID: Method Blank

Lab Sample ID: MB 140-60194/3-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	60194	03/29/22 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			60348	04/01/22 11:30	JGT	TAL KNX
Instrument ID: DUO										

## Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-59914/4-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	59914	03/22/22 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			60348	04/01/22 11:50	JGT	TAL KNX
Instrument ID: DUO										

# Lab Chronicle

Client: Golder Associates Inc.  
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

## Client Sample ID: Lab Control Sample

## Lab Sample ID: LCS 140-59915/4-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 1	SEP	Exchangeable			5.000 g	25 mL	59915	03/22/22 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	59968	03/23/22 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		5			60317	03/31/22 12:46	JGT	TAL KNX
Instrument ID: DUO										

## Client Sample ID: Lab Control Sample

## Lab Sample ID: LCS 140-59969/4-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 2	SEP	Carbonate			5.000 g	25 mL	59969	03/23/22 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	60022	03/24/22 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		5			60317	03/31/22 13:25	JGT	TAL KNX
Instrument ID: DUO										

## Client Sample ID: Lab Control Sample

## Lab Sample ID: LCS 140-60023/4-B

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	60023	03/24/22 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	60073	03/25/22 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			60317	03/31/22 14:05	JGT	TAL KNX
Instrument ID: DUO										

## Client Sample ID: Lab Control Sample

## Lab Sample ID: LCS 140-60074/4-B

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	60074	03/25/22 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	60125	03/26/22 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			60317	03/31/22 14:45	JGT	TAL KNX
Instrument ID: DUO										

## Client Sample ID: Lab Control Sample

## Lab Sample ID: LCS 140-60126/4-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 5	SEP	Organic-Bound			5.000 g	75 mL	60126	03/26/22 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	60152	03/28/22 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			60317	03/31/22 15:23	JGT	TAL KNX
Instrument ID: DUO										

Eurofins Knoxville

# Lab Chronicle

Client: Golder Associates Inc.  
 Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 140-60153/4-A**

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	60153	03/28/22 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			60317	03/31/22 16:10	JGT	TAL KNX
Instrument ID: DUO										

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 140-60194/4-A**

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	60194	03/29/22 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			60348	04/01/22 11:35	JGT	TAL KNX
Instrument ID: DUO										

**Client Sample ID: Lab Control Sample Dup**

**Lab Sample ID: LCSD 140-59914/5-A**

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	59914	03/22/22 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			60348	04/01/22 11:55	JGT	TAL KNX
Instrument ID: DUO										

**Client Sample ID: Lab Control Sample Dup**

**Lab Sample ID: LCSD 140-59915/5-B ^5**

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 1	SEP	Exchangeable			5.000 g	25 mL	59915	03/22/22 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	59968	03/23/22 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		5			60317	03/31/22 12:50	JGT	TAL KNX
Instrument ID: DUO										

**Client Sample ID: Lab Control Sample Dup**

**Lab Sample ID: LCSD 140-59969/5-B ^5**

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 2	SEP	Carbonate			5.000 g	25 mL	59969	03/23/22 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	60022	03/24/22 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		5			60317	03/31/22 13:30	JGT	TAL KNX
Instrument ID: DUO										



# Lab Chronicle

Client: Golder Associates Inc.  
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

## Client Sample ID: Lab Control Sample Dup

## Lab Sample ID: LCSD 140-60023/5-B

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	60023	03/24/22 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	60073	03/25/22 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			60317	03/31/22 14:10	JGT	TAL KNX
Instrument ID: DUO										

## Client Sample ID: Lab Control Sample Dup

## Lab Sample ID: LCSD 140-60074/5-B

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	60074	03/25/22 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	60125	03/26/22 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			60317	03/31/22 14:49	JGT	TAL KNX
Instrument ID: DUO										

## Client Sample ID: Lab Control Sample Dup

## Lab Sample ID: LCSD 140-60126/5-B ^5

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 5	SEP	Organic-Bound			5.000 g	75 mL	60126	03/26/22 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	60152	03/28/22 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			60317	03/31/22 15:28	JGT	TAL KNX
Instrument ID: DUO										

## Client Sample ID: Lab Control Sample Dup

## Lab Sample ID: LCSD 140-60153/5-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	60153	03/28/22 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			60317	03/31/22 16:15	JGT	TAL KNX
Instrument ID: DUO										

## Client Sample ID: Lab Control Sample Dup

## Lab Sample ID: LCSD 140-60194/5-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 7	Prep	Residual			1.000 g	50 mL	60194	03/29/22 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			60348	04/01/22 11:40	JGT	TAL KNX
Instrument ID: DUO										

# Lab Chronicle

Client: Golder Associates Inc.  
 Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

**Client Sample ID: B-117D (52-52.5')**  
**Date Collected: 12/08/21 10:19**  
**Date Received: 01/12/22 10:00**

**Lab Sample ID: 140-26651-1 DU**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			59970	03/22/22 14:11	ACW	TAL KNX
Instrument ID: NOEQUIP										

**Client Sample ID: B-117D (52-52.5')**  
**Date Collected: 12/08/21 10:19**  
**Date Received: 01/12/22 10:00**

**Lab Sample ID: 140-26651-1 DU**  
**Matrix: Solid**  
**Percent Solids: 99.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	59914	03/22/22 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		10			60348	04/01/22 12:39	JGT	TAL KNX
Instrument ID: DUO										
Total/NA	Prep	Total			1.000 g	50 mL	59914	03/22/22 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			60348	04/01/22 13:20	JGT	TAL KNX
Instrument ID: DUO										
Total/NA	Prep	Total			1.000 g	50 mL	59914	03/22/22 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		2			60348	04/01/22 13:40	JGT	TAL KNX
Instrument ID: DUO										
Step 1	SEP	Exchangeable			5.000 g	25 mL	59915	03/22/22 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	59968	03/23/22 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			60317	03/31/22 13:00	JGT	TAL KNX
Instrument ID: DUO										
Step 2	SEP	Carbonate			5.000 g	25 mL	59969	03/23/22 08:00	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	60022	03/24/22 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			60317	03/31/22 13:40	JGT	TAL KNX
Instrument ID: DUO										
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	60023	03/24/22 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	60073	03/25/22 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			60317	03/31/22 14:20	JGT	TAL KNX
Instrument ID: DUO										
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	60074	03/25/22 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	60125	03/26/22 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			60317	03/31/22 14:59	JGT	TAL KNX
Instrument ID: DUO										
Step 5	SEP	Organic-Bound			5.000 g	75 mL	60126	03/26/22 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	60152	03/28/22 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			60317	03/31/22 15:39	JGT	TAL KNX
Instrument ID: DUO										
Step 6	SEP	Acid/Sulfide			5.000 g	250 mL	60153	03/28/22 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			60317	03/31/22 16:24	JGT	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	60194	03/29/22 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		10			60348	04/01/22 12:24	JGT	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	60194	03/29/22 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			60348	04/01/22 12:54	JGT	TAL KNX
Instrument ID: DUO										

Eurofins Knoxville

# Lab Chronicle

Client: Golder Associates Inc.  
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

**Laboratory References:**

TAL KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

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# Accreditation/Certification Summary

Client: Golder Associates Inc.  
 Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

## Laboratory: Eurofins Knoxville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	N/A	
ANAB	Dept. of Defense ELAP	L2311	02-13-25
ANAB	Dept. of Energy	L2311.01	02-13-25
ANAB	ISO/IEC 17025	L2311	02-13-25
Arkansas DEQ	State	88-0688	06-17-22
California	State	2423	06-30-22
Colorado	State	TN00009	02-28-23
Connecticut	State	PH-0223	09-30-23
Florida	NELAP	E87177	06-30-22
Georgia (DW)	State	906	12-11-22
Hawaii	State	NA	12-11-22
Kansas	NELAP	E-10349	10-31-22
Kentucky (DW)	State	90101	12-31-22
Louisiana	NELAP	83979	06-30-22
Louisiana (DW)	State	LA019	12-31-22
Maryland	State	277	03-31-22 *
Michigan	State	9933	12-11-22
Nevada	State	TN00009	07-31-22
New Hampshire	NELAP	299919	01-17-23
New Jersey	NELAP	TN001	06-30-22
New York	NELAP	10781	03-31-22 *
North Carolina (DW)	State	21705	07-31-22
North Carolina (WW/SW)	State	64	12-31-22
Ohio VAP	State	CL0059	06-02-23
Oklahoma	State	9415	08-31-22
Oregon	NELAP	TNI0189	12-31-22
Pennsylvania	NELAP	68-00576	12-31-22
Tennessee	State	02014	12-11-22
Texas	NELAP	T104704380-18-12	08-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-19-00236	08-20-22
Utah	NELAP	TN00009	07-31-22
Virginia	NELAP	460176	09-14-22
Washington	State	C593	01-19-23
West Virginia (DW)	State	9955C	12-31-22
West Virginia DEP	State	345	04-30-23
Wisconsin	State	998044300	08-31-22

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: Golder Associates Inc.  
Project/Site: Plant McDonough (166949621)

Job ID: 140-26651-1

Method	Method Description	Protocol	Laboratory
6010B	SEP Metals (ICP) - Total	SW846	TAL KNX
6010B SEP	SEP Metals (ICP)	SW846	TAL KNX
Moisture	Percent Moisture	EPA	TAL KNX
3010A	Preparation, Total Metals	SW846	TAL KNX
Acid/Sulfide	Sequential Extraction Procedure, Acid/Sulfide Fraction	TAL-KNOX	TAL KNX
Carbonate	Sequential Extraction Procedure, Carbonate Fraction	TAL-KNOX	TAL KNX
Exchangeable	Sequential Extraction Procedure, Exchangeable Fraction	TAL-KNOX	TAL KNX
Metal Hydroxide	Sequential Extraction Procedure, Metal Hydroxide Fraction	TAL-KNOX	TAL KNX
Non-Crystalline	Sequential Extraction Procedure, Non-crystalline Materials	TAL-KNOX	TAL KNX
Organic-Bound	Sequential Extraction Procedure, Organic Bound Fraction	TAL-KNOX	TAL KNX
Residual	Sequential Extraction Procedure, Residual Fraction	TAL-KNOX	TAL KNX
Total	Preparation, Total Material	TAL-KNOX	TAL KNX

#### Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-KNOX = TestAmerica Laboratories, Knoxville, Facility Standard Operating Procedure.

#### Laboratory References:

TAL KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000



EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	/			<input type="checkbox"/> Containers, Broken	10
2. Were ambient air containers received intact?	/			<input type="checkbox"/> Checked in lab	
3. The coolers/containers custody seal if present, is it intact?			/	<input type="checkbox"/> Yes <input type="checkbox"/> NA	H
4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C) Thermometer ID : 54-71 Correction factor: -0.01°C	X 5/12/22	/		<input checked="" type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	
5. Were all of the sample containers received intact?	/			<input type="checkbox"/> Containers, Broken	
6. Were samples received in appropriate containers?	/			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	/			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	
8. Were all of the samples listed on the COC received?	/			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	/			<input type="checkbox"/> COC; No Date/Time; Client Contacted	Labeling Verified by: _____ Date: _____
10. Was the sampler identified on the COC?		/		<input checked="" type="checkbox"/> Sampler Not Listed on COC	pH test strip lot number: _____
11. Is the client and project name/# identified?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
12. Are tests/parameters listed for each sample?	/			<input type="checkbox"/> COC No tests on COC	
13. Is the matrix of the samples noted?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	/			<input type="checkbox"/> COC Incorrect/Incomplete	Box 16A: pH Preservation Box 18A: Residual Chlorine
15. Were samples received within holding time?	/			<input type="checkbox"/> Holding Time - Receipt	Preservative: _____
16. Were samples received with correct chemical preservative (excluding Encore)?			/	<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	Lot Number: _____ Exp Date: _____ Analyst: _____ Date: _____ Time: _____
17. Were VOA samples received without headspace?			/	<input type="checkbox"/> Headspace (VOA only) <input type="checkbox"/> Residual Chlorine	
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:			/		
19. For 1613B water samples is pH<9?			/	<input type="checkbox"/> If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?			/	<input type="checkbox"/> Project missing info	
Project #: _____				PM Instructions: _____	

Sample Receiving Associate: *[Signature]* Date: 01.12.22

QA026R32.doc, 062719





# Analysis Report

## GS22-01437

F432001 SGS LAKEFIELD RESEARCH  
PO BOX 4300  
165 CONCESSION STREET  
LAKEFIELD, ONTARIO ON K0L 2H0  
CANADA

Received : 15-May-2022  
Completed : 19-May-2022  
Order Reference : Kim Gibbs - Katie Brock - M55010-May22

Laboratory ID:	GS22-01437.009	GS22-01437.010
Client Sample #:	B-1230-27-28	B-1230-145
Description:		

CEC Actual (meq/100g)	4.50	18.74
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### NOTE:

This analysis report above refers to the time and place of testing, and strictly to the supplied sample(s) only, without reference to any other matter. This report does not evidence or refer to any consignment or shipment or any SGS sampling and inspection.

Report File Reference Number: 0000220419

Page 3 of 3

Signed and dated in Guelph, ON  
On 19-May-2022

For and on behalf of SGS Canada Inc., Agriculture and Food

Jack Legg, CCA-ON, 4R NMS  
Branch Manager, Agronomist

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# Analysis Report

## GS22-01437

F452651 SGS LAKEFIELD RESEARCH  
 PO BOX 4300  
 185 CONCESSION STREET  
 LAKEFIELD, ONTARIO ON K0L 2H0  
 CANADA

Received : 18-May-2022  
 Completed : 19-May-2022  
 Order Reference : Kim Gibbs - Katie Brock - M55010-May22

Laboratory ID: Client Sample # Description	GS22-01437.005 B-4D-23-24	GS22-01437.006 CCMC-121-48-50	GS22-01437.007 CCMC-121-38-40	GS22-01437.008 B-122D-35-47
CEC Actual (meq/100g)	9.77	10.64	5.08	6.92

**NOTE:**  
 The analysis report above refers to the time and place of testing, and strictly to the supplied sample(s) only, without reference to any other matter. This report does not evidence or refer to any consignment or shipment or land SGS sampling and inspection.

Report File Reference Number: 0000320419

Page 2 of 3

Signed and dated in Guelph, ON  
 On 19-May-2022

For and on behalf of SGS Canada Inc., Agriculture and Food

**Jack Legg, CCA-ON, 4R NMS**  
 Branch Manager, Agronomist

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# Analysis Report

## GS22-01437

F400001 SGS LAKEFIELD RESEARCH  
 PO BOX 4300  
 185 CONCESSION STREET  
 LAKEFIELD, ONTARIO ON K0L 2H0  
 CANADA

Received : 18-May-2022  
 Completed : 19-May-2022  
 Order Reference : Kim Gibbs - Katie Brock - MISO10-May22

Laboratory ID: Client Sample # Description	GS22-01437.001 B-1120-19-20'	GS22-01437.002 B-1040-55-56'	GS22-01437.003 B-1150-75-76'	GS22-01437.004 B-47D-11-12'
CEC Actual (meq/100g)	5.18	7.14	7.48	7.78

**NOTE:**

The analysis report above refers to the time and place of testing, and strictly to the supplied sample(s) only, without reference to any other matter. This report does not evidence or refer to any consignment or shipment ordered SGS sampling and inspection.

Report File Reference Number: 0000330419

Page 1 of 3

Signed and dated in Guelph, ON  
 On 19-May-2022

For and on behalf of SGS Canada Inc., Agriculture and Food

Jack Legg, OCA-ON, 4R NMS  
 Branch Manager, Agronomist

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SGS Canada Inc.  
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Lakefield - Ontario - KOL 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Internal Dept 14  
Attn : Kim Gibbs

08-June-2022

Date Rec. : 11 May 2022  
LR Report : CA02233-MAY22  
Project : CA20I-00000-110-18502-05  
Client Ref : MI5010-MAY22

## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	TOC %
1: B-113D-19-20'	< 0.05
2: B-104D-55-56'	< 0.05
3: B-115D-75-76'	< 0.05
4: B-47-11-12'	0.06
5: B-48-23-24'	< 0.05
6: DGWC-121-38-40'	< 0.05
7: DGWC-121-49-50'	< 0.05
8: B-122D-39-40'	2.13
9: B-123D-27-28'	< 0.05
10: B-123D-145'	< 0.05

Control Quality Analysis - not suitable for commercial exchange

Sarah Thyret-Arbour  
Technologist, Mineral Services, Analytical



## Quantitative X-Ray Diffraction by Rietveld Refinement

**Report Prepared for:** *Golder Associates Inc*  
**Project Number/ LIMS No.** *18502-05/MI5010-MAY22*  
**Sample Receipt:** *May 8, 2022*  
**Sample Analysis:** *May 13, 2022*  
**Reporting Date:** *June 8, 2022*

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**Instrument:** BRUKER AXS D8 Advance Diffractometer  
**Test Conditions:** Co radiation, 35 kV, 40 mA; Detector: LYNXEYE  
Regular Scanning: Step: 0.02°, Step time: 0.75s, 2θ range: 6-80°  
**Interpretations :** PDF2/PDF4 powder diffraction databases issued by the International Center for Diffraction Data (ICDD). DiffracPlus Eva and Topas software.  
**Detection Limit :** 0.5-2%. Strongly dependent on crystallinity.

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**Contents:**  
1) Method Summary  
2) Quantitative XRD Results  
3) XRD Pattern(s)

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Kim Gibbs, H.B.Sc., P.Ge.  
Senior Mineralogist

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Huyun Zhou, Ph.D., P.Ge.  
Senior Mineralogist

**ACCREDITATION:** SGS Natural Resources Lakefield is accredited to the requirements of ISO/IEC 17025 for specific tests as listed on our scope of accreditation, including geochemical, mineralogical and trade mineral tests. To view a list of the accredited methods, please visit the following website and search SGS Canada Inc. - Minerals: <https://www.scc.ca/en/search/palcan>.



## Method Summary

The Rietveld Method of Mineral Identification by XRD (ME-LR-MIN-MET-MN-D05) method used by SGS Natural Resources is accredited to the requirements of ISO/IEC 17025.

### ***Mineral Identification and Interpretation:***

Mineral identification and interpretation involves matching the diffraction pattern of an unknown material to patterns of single-phase reference materials. The reference patterns are compiled by the Joint Committee on Powder Diffraction Standards - International Center for Diffraction Data (JCPDS-ICDD) database and released on software as Powder Diffraction Files (PDF).

Interpretations do not reflect the presence of non-crystalline and/or amorphous compounds, except when internal standards have been added by request. Mineral proportions may be strongly influenced by crystallinity, crystal structure and preferred orientations. Mineral or compound identification and quantitative analysis results should be accompanied by supporting chemical assay data or other additional tests.

### ***Quantitative Rietveld Analysis:***

Quantitative Rietveld Analysis is performed by using Topas 4.2 (Bruker AXS), a graphics based profile analysis program built around a non-linear least squares fitting system, to determine the amount of different phases present in a multicomponent sample. Whole pattern analyses are predicated by the fact that the X-ray diffraction pattern is a total sum of both instrumental and specimen factors. Unlike other peak intensity-based methods, the Rietveld method uses a least squares approach to refine a theoretical line profile until it matches the obtained experimental patterns.

Rietveld refinement is completed with a set of minerals specifically identified for the sample. Zero values indicate that the mineral was included in the refinement calculations, but the calculated concentration was less than 0.05wt%. Minerals not identified by the analyst are not included in refinement calculations for specific samples and are indicated with a dash.

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**WARNING:** The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.

## Summary of Rietveld Quantitative Analysis X-Ray Diffraction Results

Mineral/Compound	B-113D-19-20'	B-104D-55-56'	B-115D-75-76'	B-47-11-12'	B-48-23-24'
	MAY5010-01 (wt %)	MAY5010-02 (wt %)	MAY5010-03 (wt %)	MAY5010-04 (wt %)	MAY5010-05 (wt %)
Quartz	69.5	32.1	32.8	25.7	45.6
Lizardite	0.6	-	-	-	-
Rutile	0.9	1.6	1.7	1.0	1.4
Magnetite	1.0	-	-	-	-
Muscovite	7.4	12.1	17.1	38.9	1.8
Kaolinite	8.0	-	-	-	-
Pyrite	0.2	-	-	-	-
Hematite	0.3	-	0.2	0.7	-
Phlogopite	6.0	-	-	-	-
Albite	5.4	32.9	28.9	6.1	36.9
Illite-Montmorillonite	0.8	-	-	-	-
Chlorite	-	3.9	6.1	5.0	2.3
Ilmenite	-	0.8	0.7	-	0.5
Biotite	-	10.7	9.8	9.8	7.1
Orthoclase	-	1.9	2.6	3.8	1.4
Diopside	-	3.8	-	5.2	3.0
Stilpnomelane	-	-	-	2.0	-
Magnesite	-	-	-	1.8	-
Actinolite	-	-	-	-	-
Gypsum	-	-	-	-	-
Gibbsite	-	-	-	-	-
Spessartine	-	-	-	-	-
Calcite	-	-	-	-	-
<b>TOTAL</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

Zero values indicate that the mineral was included in the refinement, but the calculated concentration is below a measurable value.

Dashes indicate that the mineral was not identified by the analyst and not included in the refinement calculation for the sample.

The weight percent quantities indicated have been normalized to a sum of 100%.

The quantity of amorphous material has not been determined.

## Summary of Rietveld Quantitative Analysis X-Ray Diffraction Results

Mineral/Compound	DGWC-121-38-40'	DGWC-121-49-50'	B-122D-39-40'	B-123D-27-28'	B-123D-145'
	MAY5010-06 (wt %)	MAY5010-07 (wt %)	MAY5010-08 (wt %)	MAY5010-09 (wt %)	MAY5010-10 (wt %)
Quartz	45.1	45.9	66.2	35.5	37.6
Lizardite	0.9	-	0.8	1.5	-
Rutile	1.2	0.4	-	1.5	0.8
Magnetite	1.9	0.5	0.8	-	-
Muscovite	18.4	10.6	12.1	7.8	0.6
Kaolinite	-	-	-	30.7	-
Pyrite	-	0.2	-	-	-
Hematite	1.4	-	-	-	-
Phlogopite	5.0	10.4	-	5.8	-
Albite	13.1	24.1	4.8	3.2	41.5
Illite-Montmorillonite	-	-	-	3.3	-
Chlorite	5.5	3.0	1.1	-	0.4
Ilmenite	0.7	1.0	-	-	0.8
Biotite	-	-	2.6	-	10.2
Orthoclase	5.4	1.2	5.2	10.1	1.4
Diopside	1.3	2.6	-	0.6	1.7
Stilpnomelane	-	-	2.2	-	-
Magnesite	-	-	-	-	-
Actinolite	-	-	1.0	-	0.9
Gypsum	-	-	0.4	-	-
Gibbsite	-	-	2.9	-	-
Spessartine	-	-	-	-	2.7
Calcite	-	-	-	-	1.5
<b>TOTAL</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

Zero values indicate that the mineral was included in the refinement, but the calculated concentration is below a measurable value.

Dashes indicate that the mineral was not identified by the analyst and not included in the refinement calculation for the sample.

The weight percent quantities indicated have been normalized to a sum of 100%.

The quantity of amorphous material has not been determined.

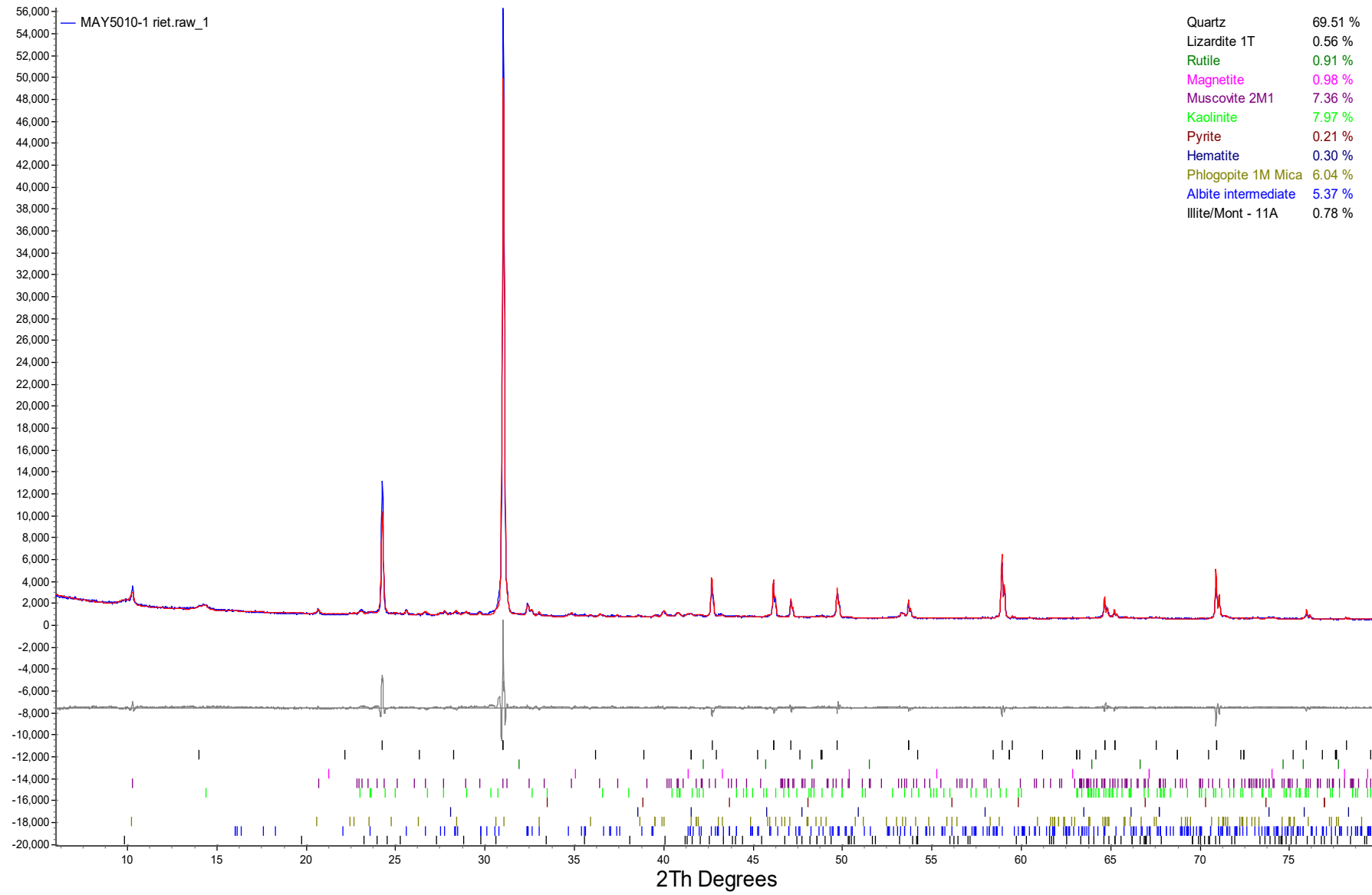
### Mineral List

Mineral/Compound	Formula
Quartz	SiO <sub>2</sub>
Lizardite	Mg <sub>3</sub> Si <sub>2</sub> O <sub>5</sub> (OH) <sub>4</sub>
Rutile	TiO <sub>2</sub>
Magnetite	Fe <sub>3</sub> O <sub>4</sub>
Muscovite	KAl <sub>2</sub> (AlSi <sub>3</sub> O <sub>10</sub> )(OH) <sub>2</sub>
Kaolinite	Al <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> (OH) <sub>4</sub>
Pyrite	FeS <sub>2</sub>
Hematite	Fe <sub>2</sub> O <sub>3</sub>
Phlogopite	KMg <sub>3</sub> (AlSi <sub>3</sub> O <sub>10</sub> )(OH) <sub>2</sub>
Albite	NaAlSi <sub>3</sub> O <sub>8</sub>
Illite-Montmorillonite	KAl <sub>4</sub> (Si,Al) <sub>8</sub> O <sub>20</sub> (OH) <sub>4</sub> ·8H <sub>2</sub> O
Chlorite	(Fe,(Mg,Mn) <sub>5</sub> ,Al)(Si <sub>3</sub> Al)O <sub>10</sub> (OH) <sub>8</sub>
Ilmenite	FeTiO <sub>3</sub>
Biotite	K(Mg,Fe) <sub>3</sub> (AlSi <sub>3</sub> O <sub>10</sub> )(OH) <sub>2</sub>
Orthoclase	KAlSi <sub>3</sub> O <sub>8</sub>
Diopside	CaMgSi <sub>2</sub> O <sub>6</sub>
Stilpnomelane	K(Fe <sup>2+</sup> ,Mg,Fe <sup>3+</sup> ) <sub>8</sub> (Si,Al) <sub>12</sub> (O,OH) <sub>27</sub> ·n(H <sub>2</sub> O)
Magnesite	MgCO <sub>3</sub>
Actinolite	Ca <sub>2</sub> (Mg,Fe) <sub>5</sub> Si <sub>8</sub> O <sub>22</sub> (OH) <sub>2</sub>
Gypsum	CaSO <sub>4</sub> ·2H <sub>2</sub> O
Gibbsite	Al(OH) <sub>3</sub>
Spessartine	Mn <sub>3</sub> Al <sub>2</sub> Si <sub>3</sub> O <sub>12</sub>
Calcite	CaCO <sub>3</sub>

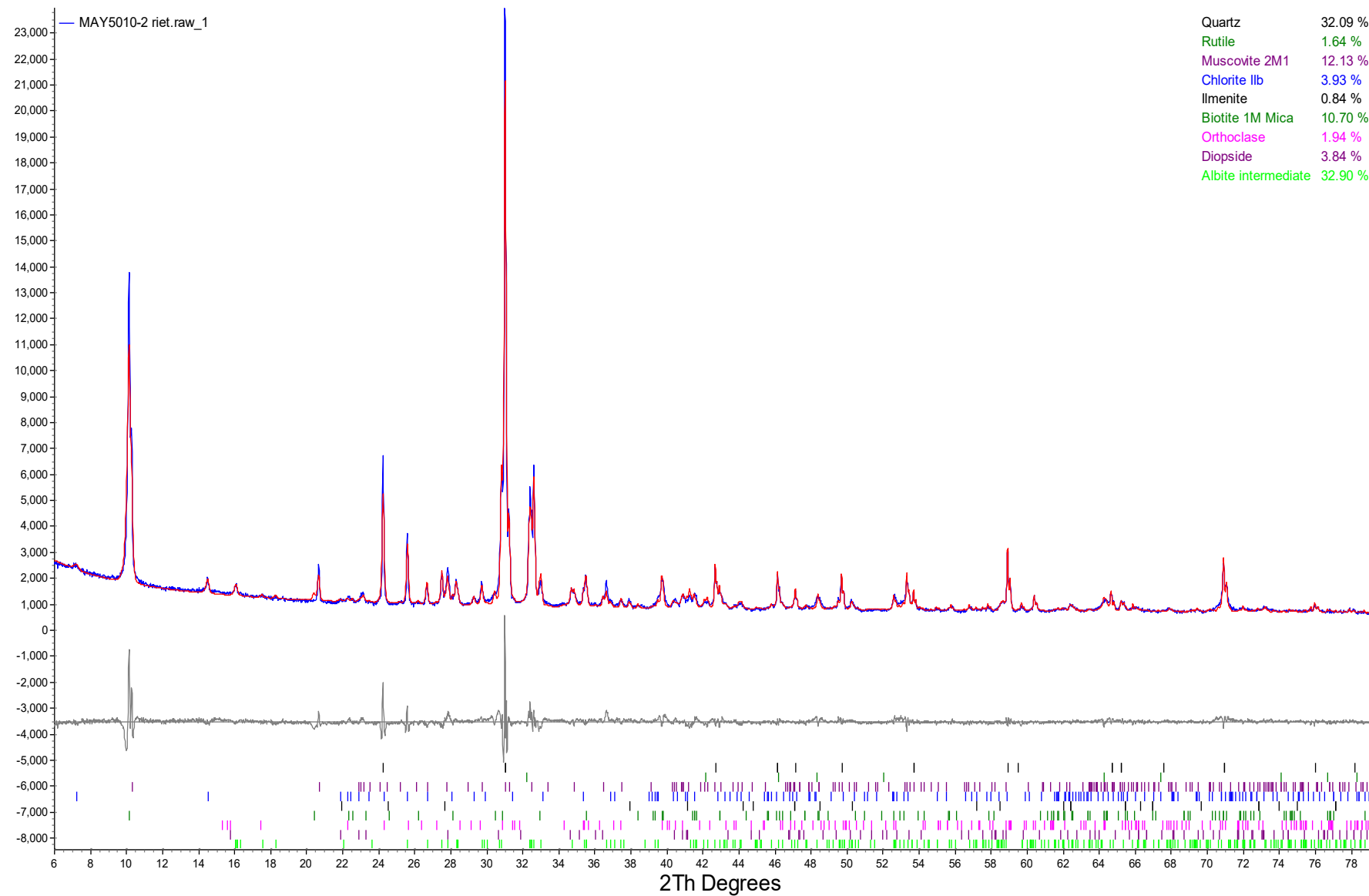




B-113D-19-20'

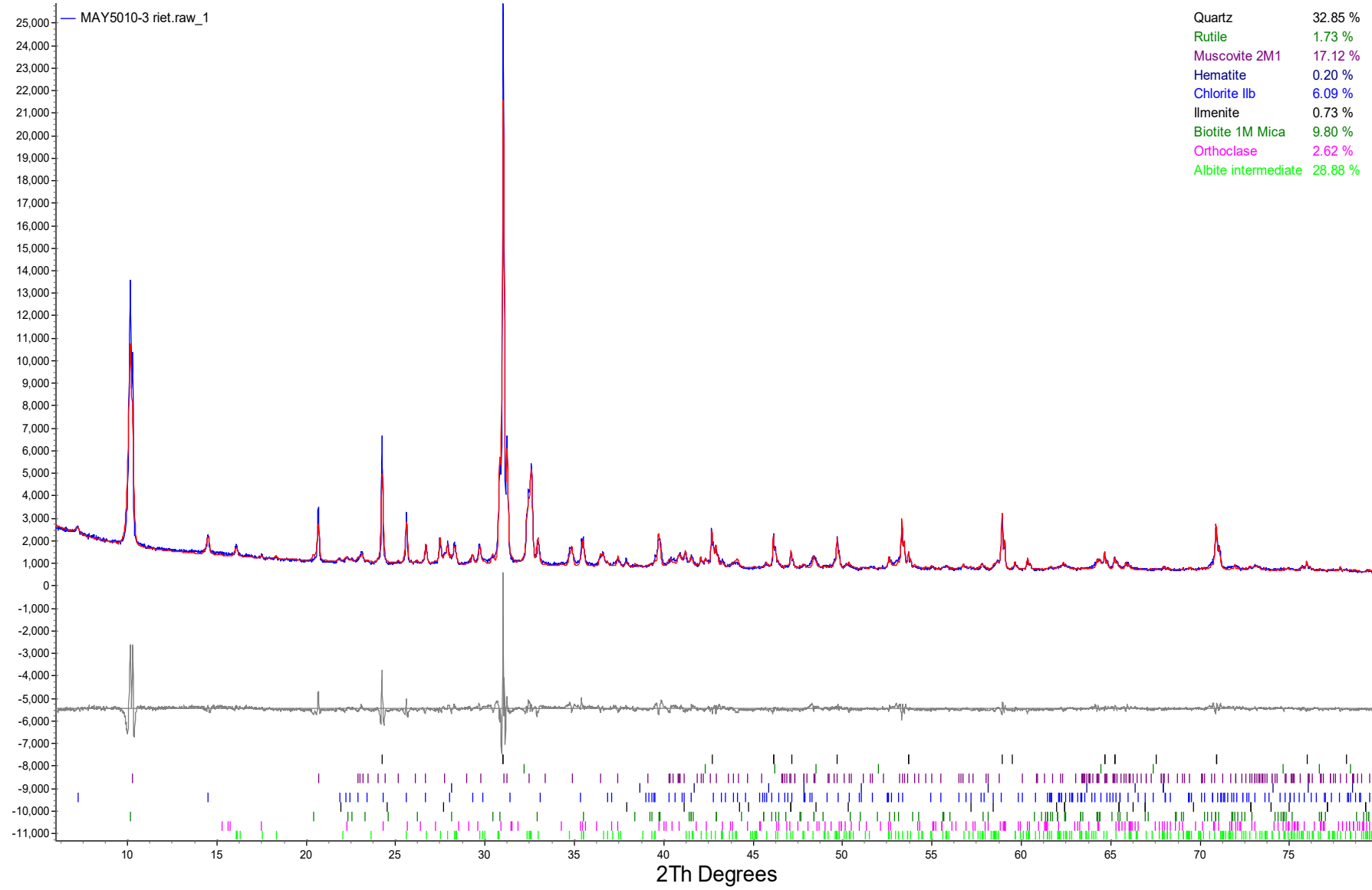


B-104D-55-56'



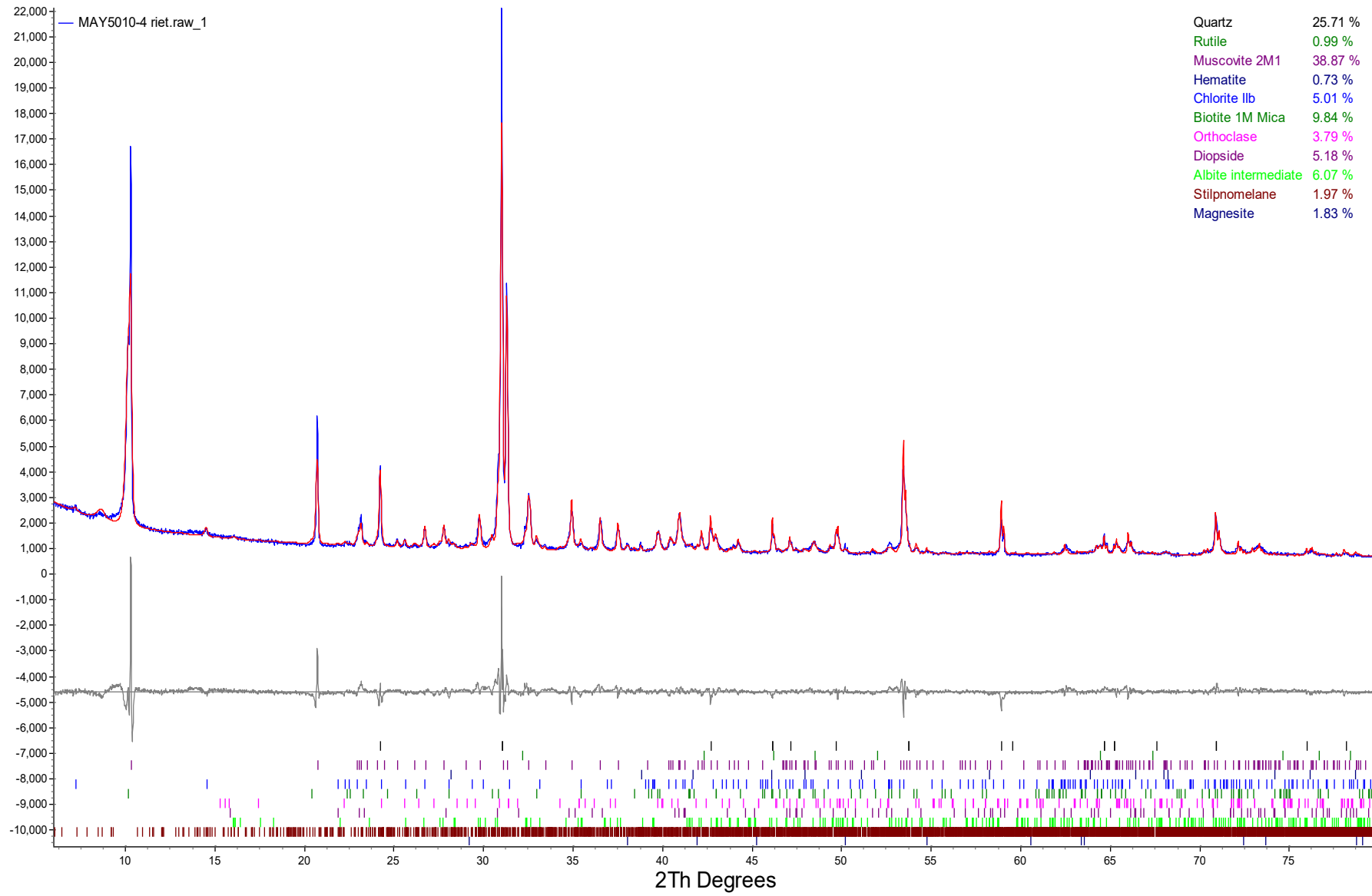


B-115D-75-76'



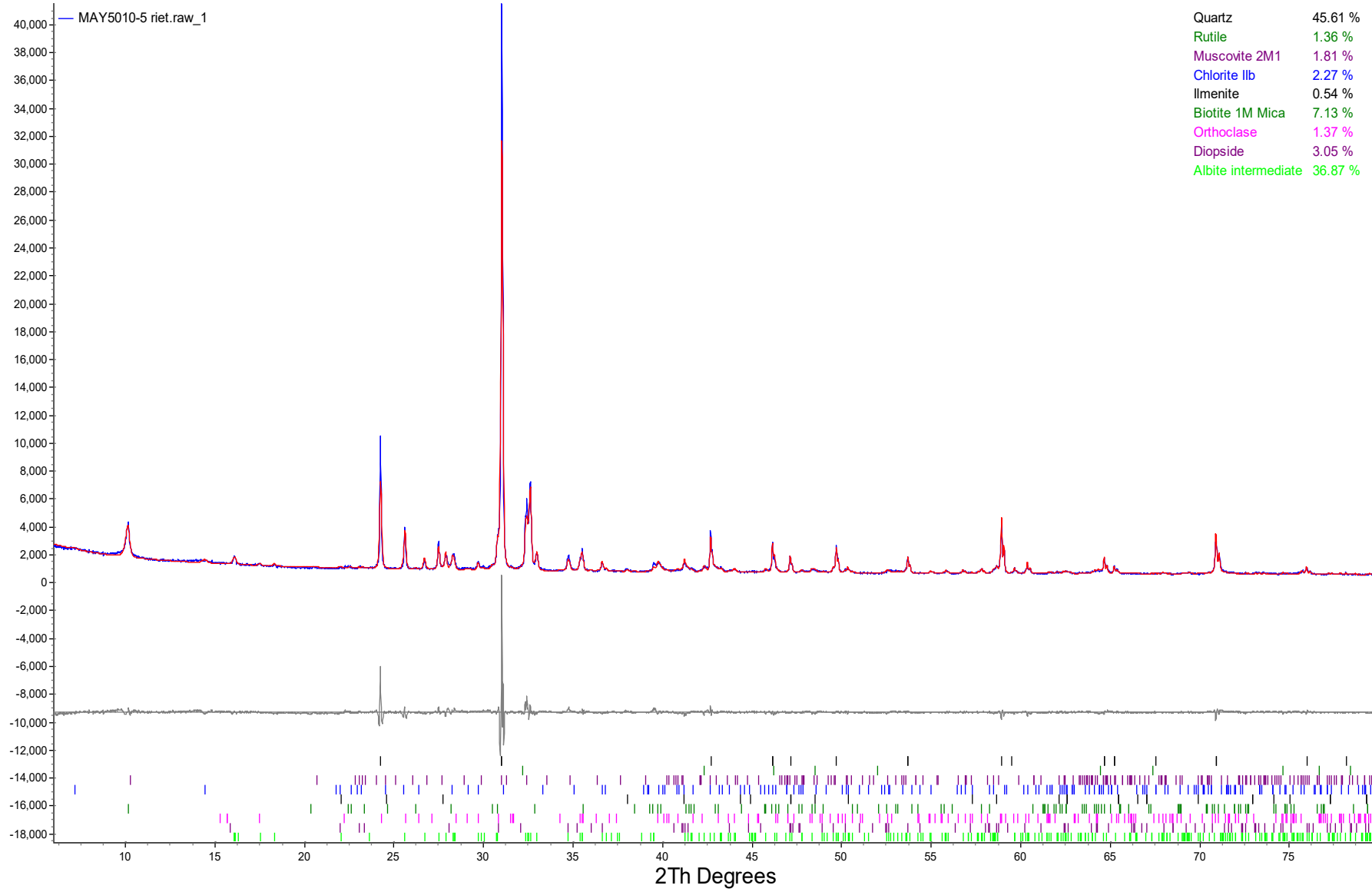


B-47-11-12'



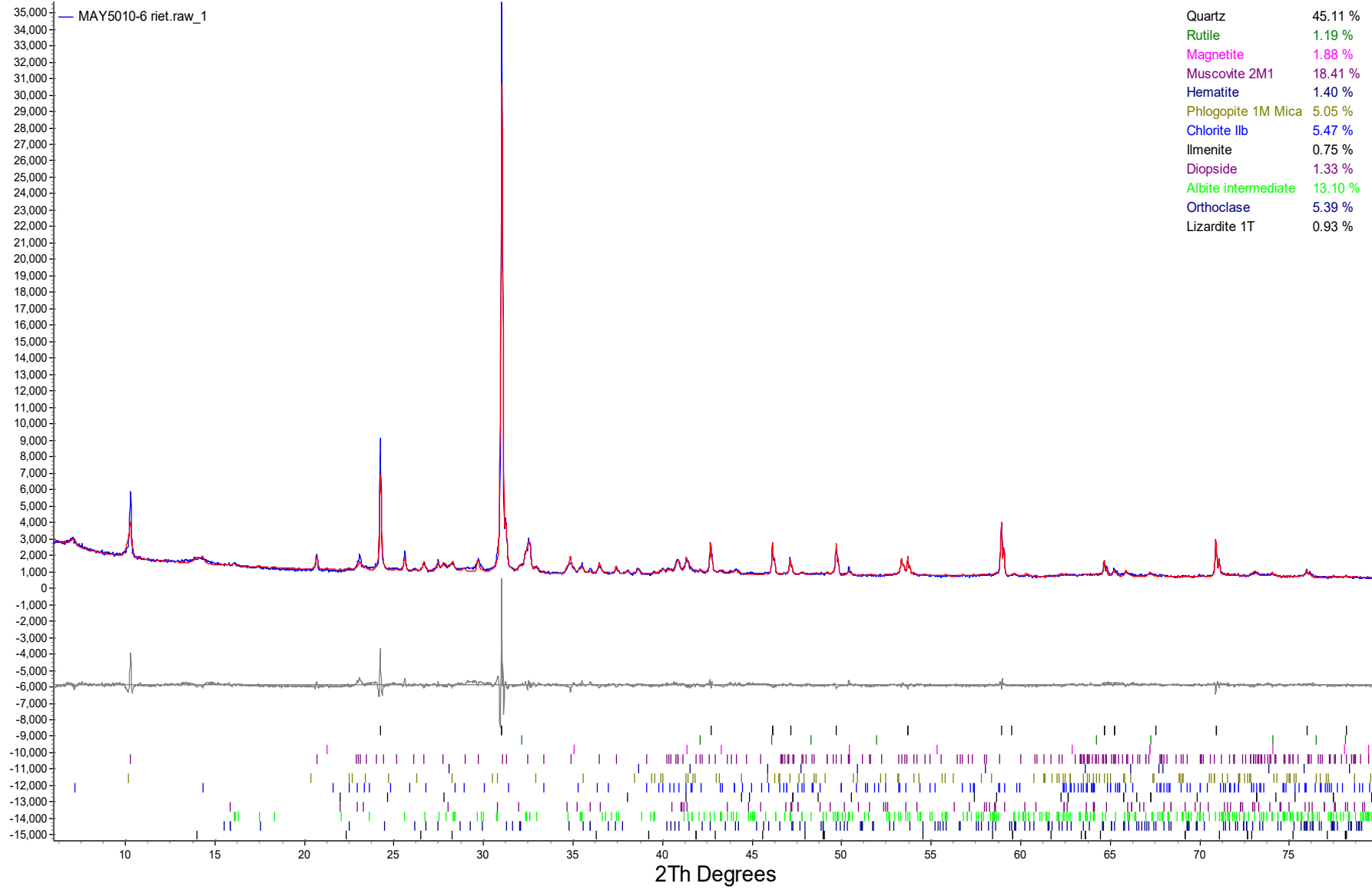


B-48-23-24'



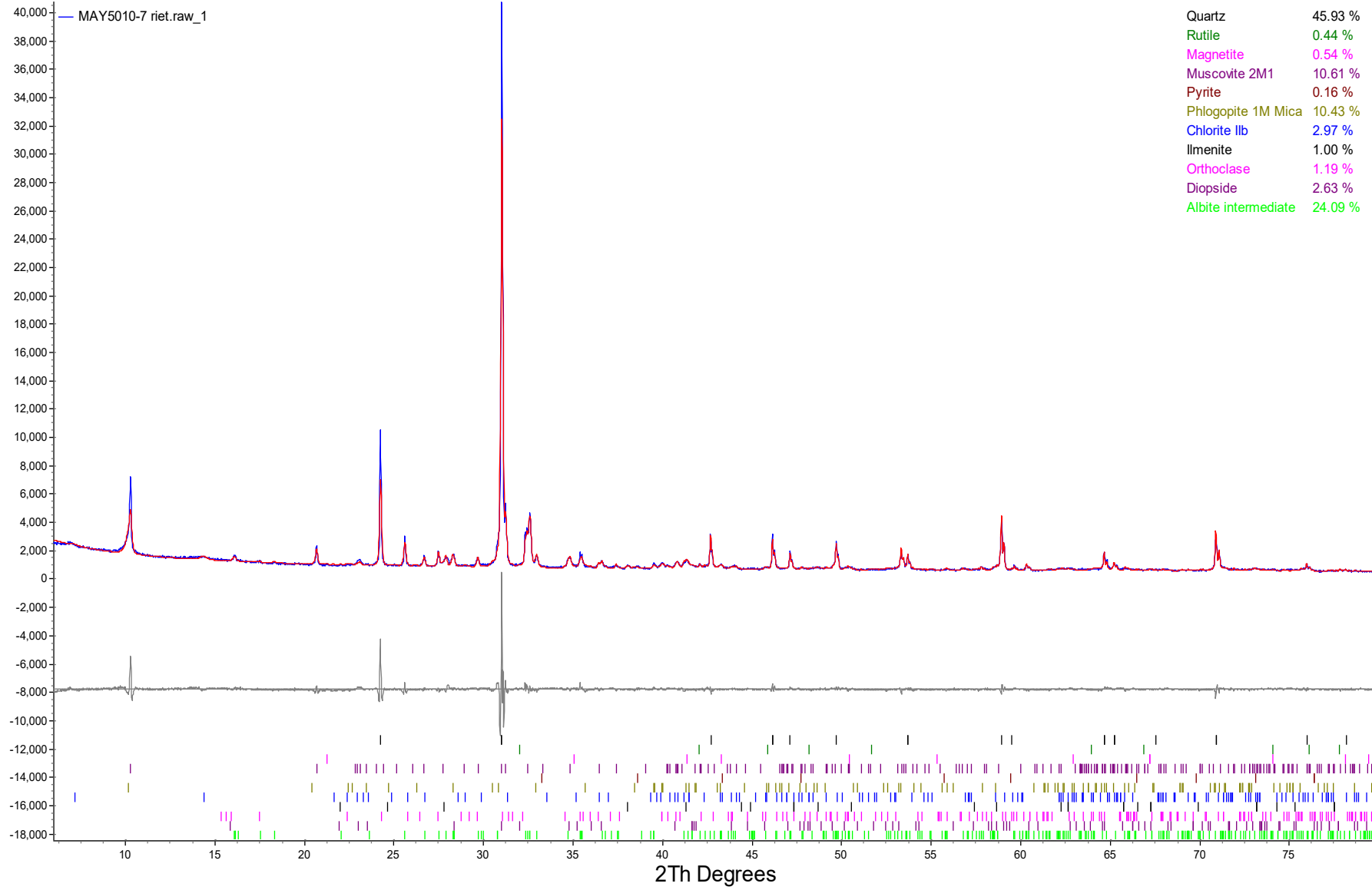


DGWC-121-38-40'



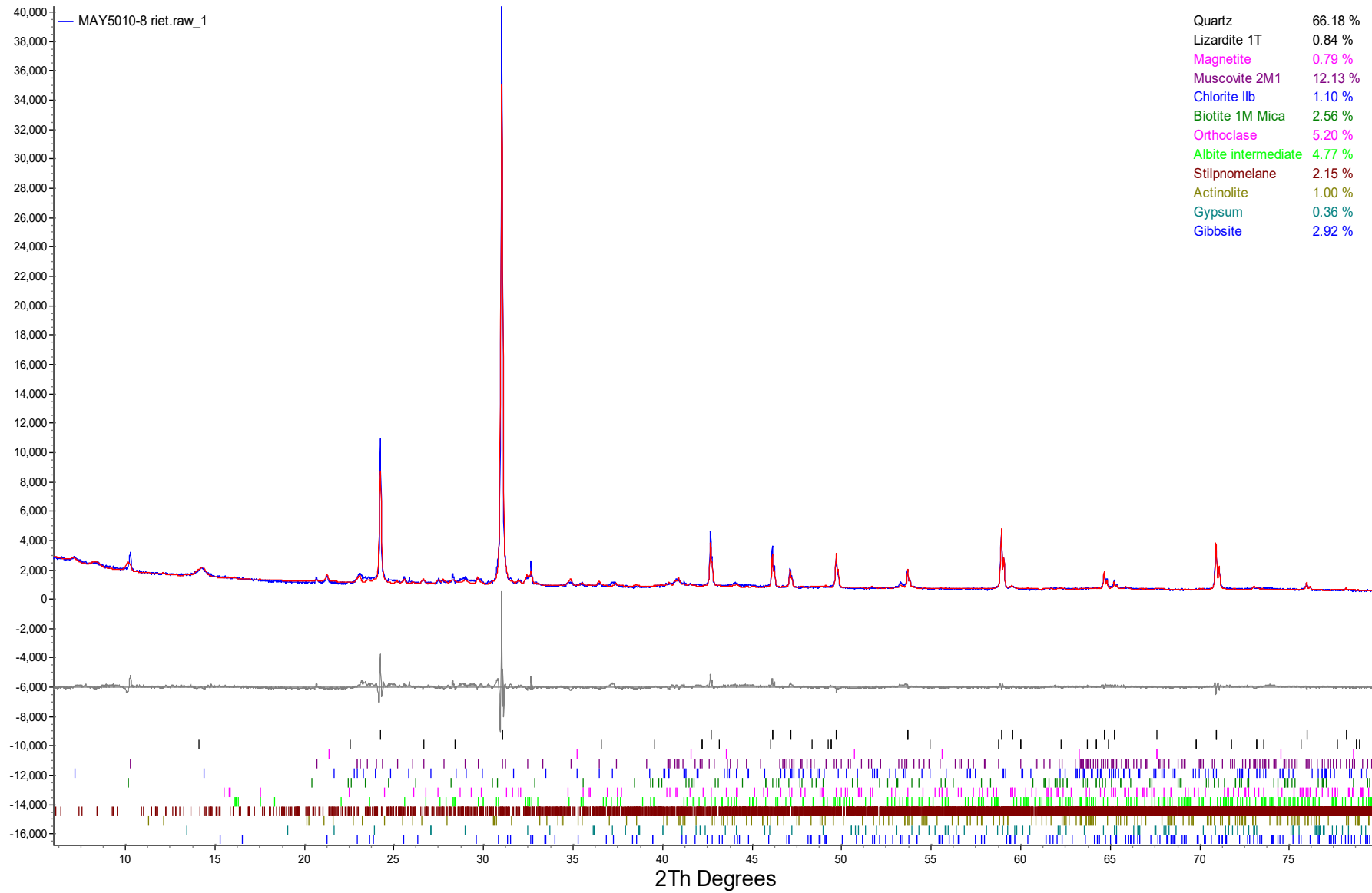


DGWC-121-49-50'





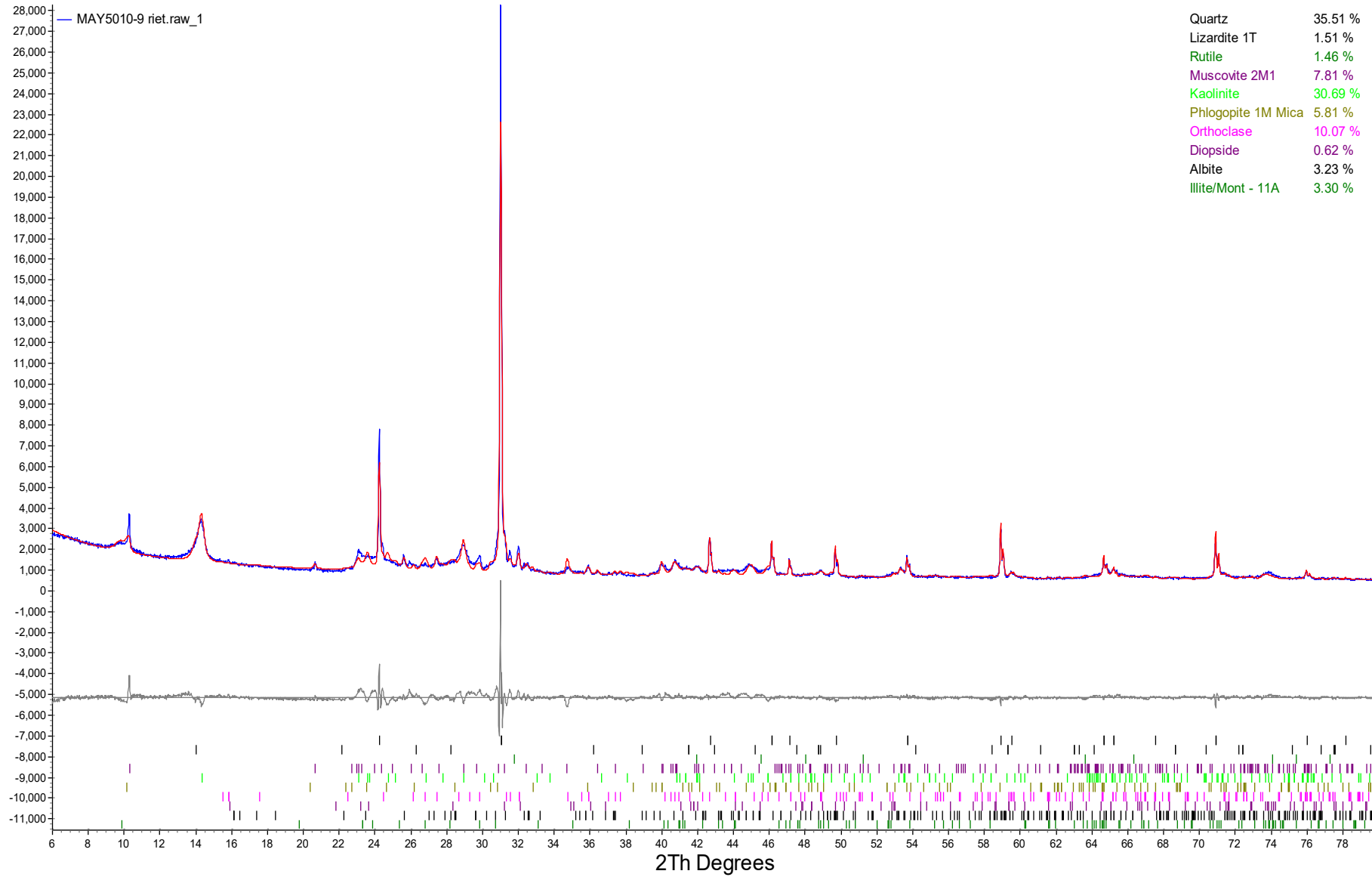
B-122D-39-40'





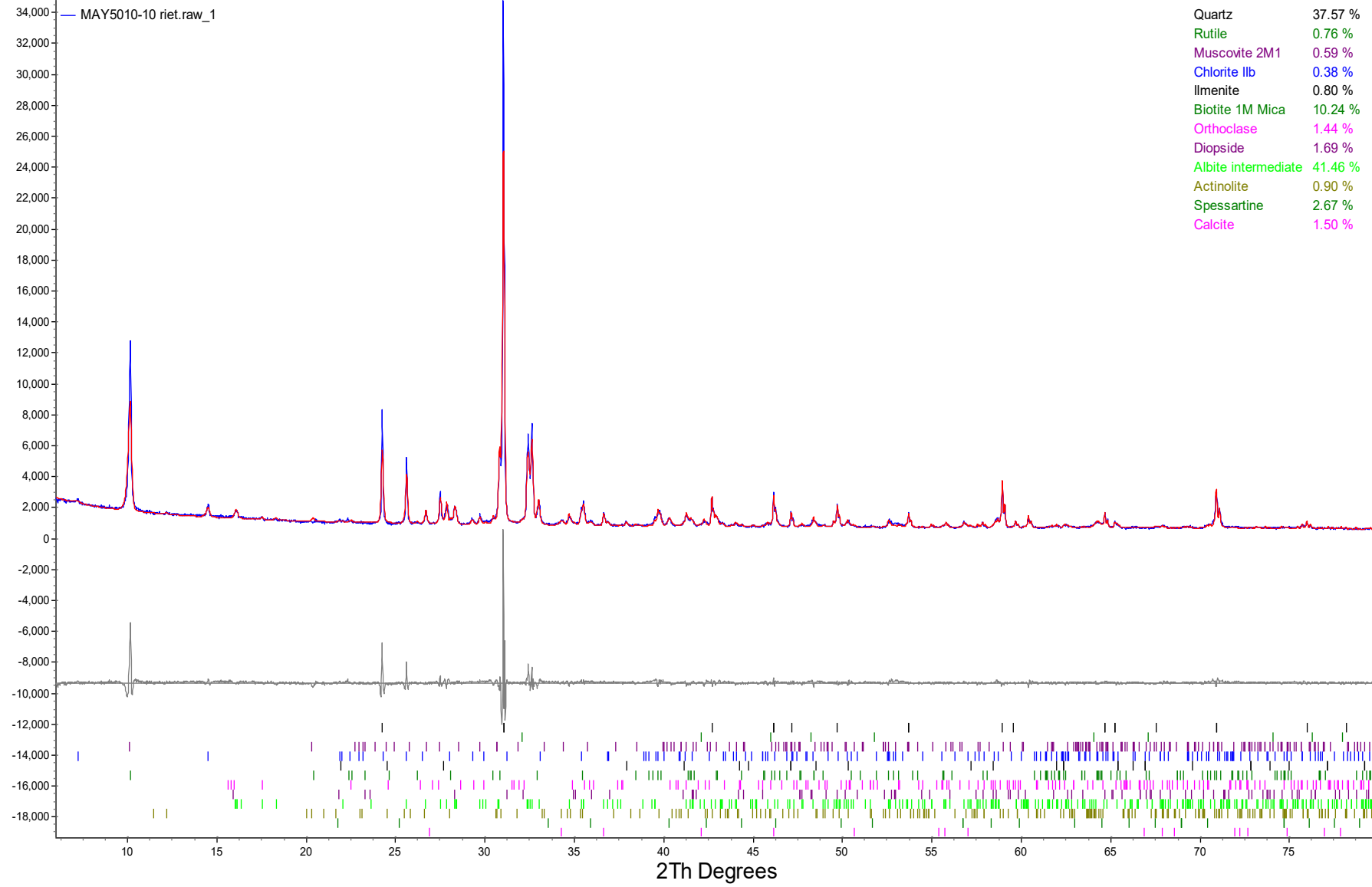


B-123D-27-28'





B-123D-145'



**APPENDIX B**

**SEN'S SLOPE/MANN KENDALL TREND ANALYSES**

# Appendix IV Trend Tests - Confidence Interval Exceedances - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/13/2022, 4:40 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	DGWA-70A (bg)	-0.0006268	-63	-58	Yes	16	50	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-48	-0.0004126	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-53 (bg)	-0.004889	-80	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-10	-0.02321	-66	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-47	-0.04583	-83	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-48	-0.04264	-102	-58	Yes	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-8	-0.01326	-69	-53	Yes	15	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-9	0.02338	78	58	Yes	16	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-53 (bg)	-0.6256	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-47	-0.006075	-72	-58	Yes	16	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWC-48	-0.006941	-80	-58	Yes	16	0	n/a	n/a	0.01	NP

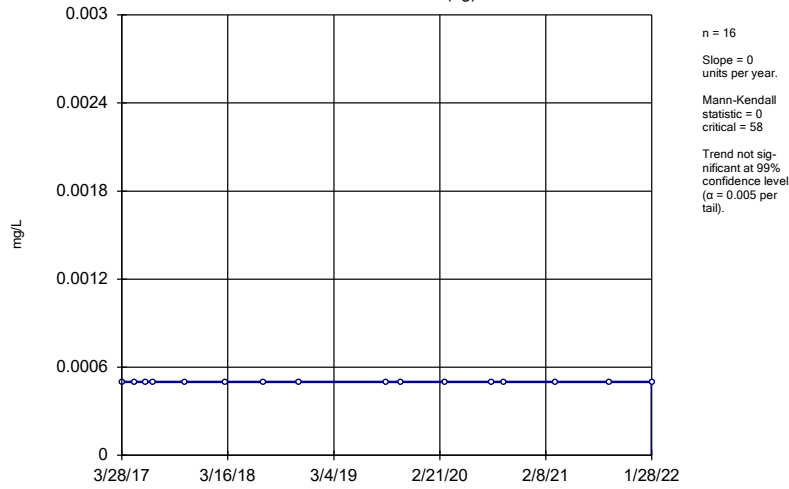
# Appendix IV Trend Tests - Confidence Interval Exceedances - All Results

Plant McDonough    Client: Southern Company    Data: McDonough AP    Printed 4/13/2022, 4:40 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	DGWA-53 (bg)	0	6	58	No	16	62.5	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-70A (bg)	0	-17	-58	No	16	87.5	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWA-71 (bg)	0	23	53	No	15	80	n/a	n/a	0.01	NP
Arsenic (mg/L)	DGWC-9	0.0005672	5	58	No	16	6.25	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWA-53 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
<b>Beryllium (mg/L)</b>	<b>DGWA-70A (bg)</b>	<b>-0.0006268</b>	<b>-63</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>50</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Beryllium (mg/L)	DGWA-71 (bg)	-0.00001569	-32	-58	No	16	31.25	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-10	0.0006697	31	53	No	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-47	-0.001058	-57	-58	No	16	0	n/a	n/a	0.01	NP
<b>Beryllium (mg/L)</b>	<b>DGWC-48</b>	<b>-0.0004126</b>	<b>-66</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Beryllium (mg/L)	DGWC-5	0.0004175	31	53	No	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	DGWC-9	0.0001047	23	58	No	16	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-92	-0.002989	-2	-8	No	4	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	B-93	0.003614	9	14	No	6	0	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWA-53 (bg)</b>	<b>-0.004889</b>	<b>-80</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	DGWA-70A (bg)	0	5	58	No	16	50	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWA-71 (bg)	0	20	53	No	15	66.67	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWC-10</b>	<b>-0.02321</b>	<b>-66</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	DGWC-19	-0.0002359	-17	-58	No	16	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	DGWC-20	0.05164	35	58	No	16	0	n/a	n/a	0.01	NP
<b>Cobalt (mg/L)</b>	<b>DGWC-47</b>	<b>-0.04583</b>	<b>-83</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-48</b>	<b>-0.04264</b>	<b>-102</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-8</b>	<b>-0.01326</b>	<b>-69</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>DGWC-9</b>	<b>0.02338</b>	<b>78</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Cobalt (mg/L)	B-104D	-0.07465	-4	-12	No	5	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-56	0.006064	7	12	No	5	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-63	-0.003301	-8	-14	No	6	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	B-93	-0.002296	-6	-14	No	6	0	n/a	n/a	0.01	NP
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>DGWA-53 (bg)</b>	<b>-0.6256</b>	<b>-62</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Combined Radium 226 + 228 (pCi/L)	DGWA-70A (bg)	0.04334	12	63	No	17	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-71 (bg)	0.0095	5	58	No	16	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
Combined Radium 226 + 228 (pCi/L)	B-109D	3.172	2	8	No	4	0	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-53 (bg)	-0.00009951	-11	-58	No	16	6.25	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-70A (bg)	0	18	58	No	16	81.25	n/a	n/a	0.01	NP
Lithium (mg/L)	DGWA-71 (bg)	-0.0001223	-45	-53	No	15	20	n/a	n/a	0.01	NP
<b>Lithium (mg/L)</b>	<b>DGWC-47</b>	<b>-0.006075</b>	<b>-72</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Lithium (mg/L)</b>	<b>DGWC-48</b>	<b>-0.006941</b>	<b>-80</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

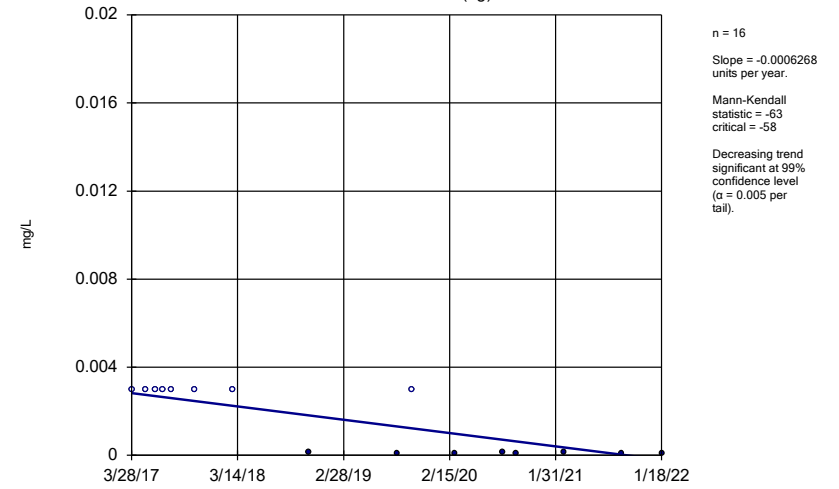


Sen's Slope Estimator  
 DGWA-53 (bg)



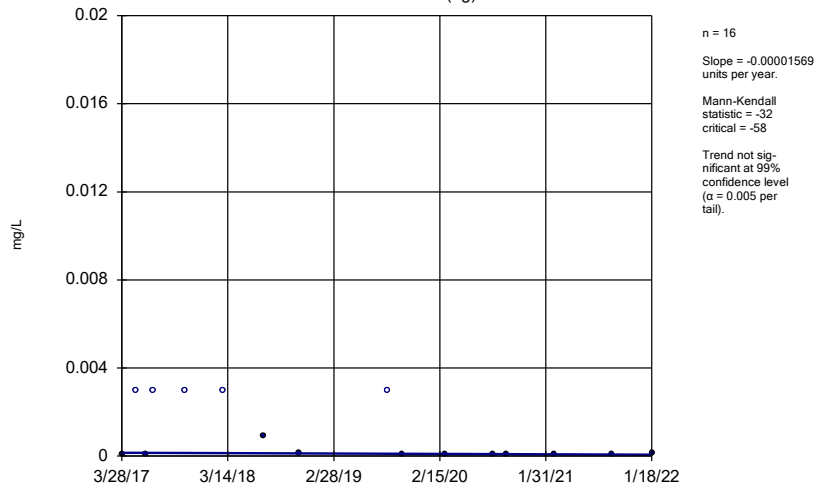
Constituent: Beryllium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
 DGWA-70A (bg)



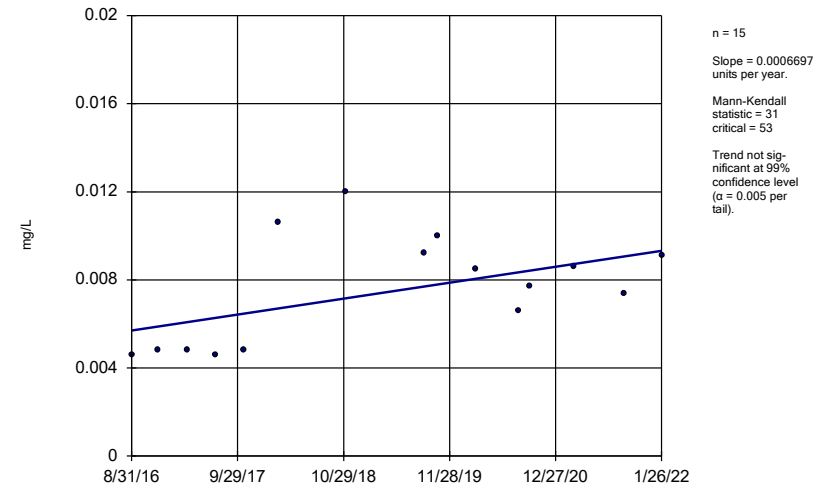
Constituent: Beryllium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
 DGWA-71 (bg)



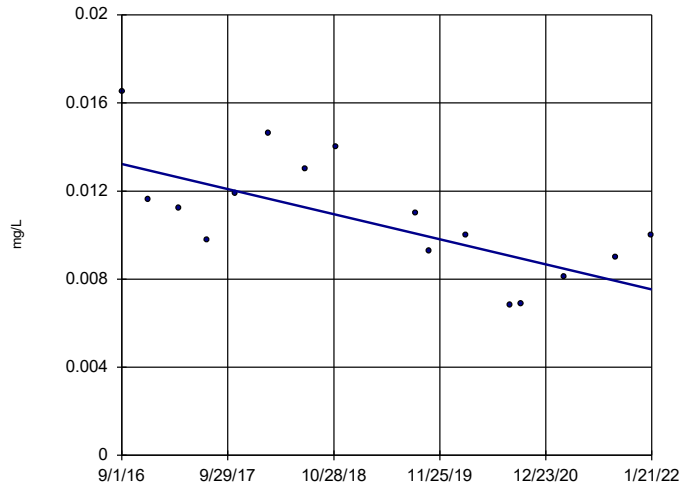
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 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
 DGWC-10



Constituent: Beryllium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

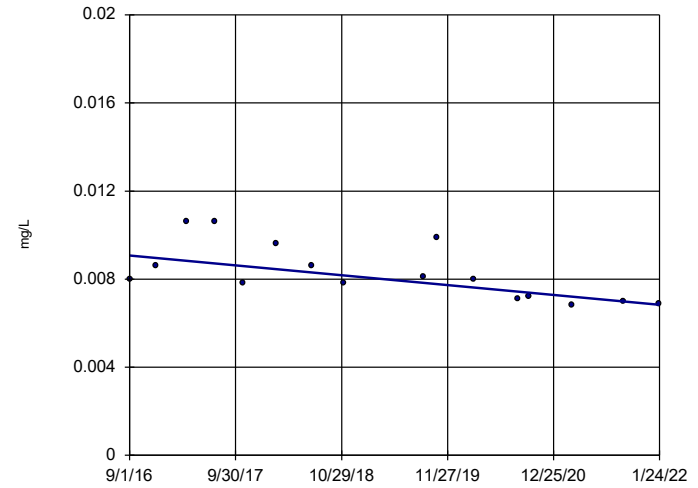
Sen's Slope Estimator  
DGWC-47



n = 16  
Slope = -0.001058 units per year.  
Mann-Kendall statistic = -57  
critical = -58  
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

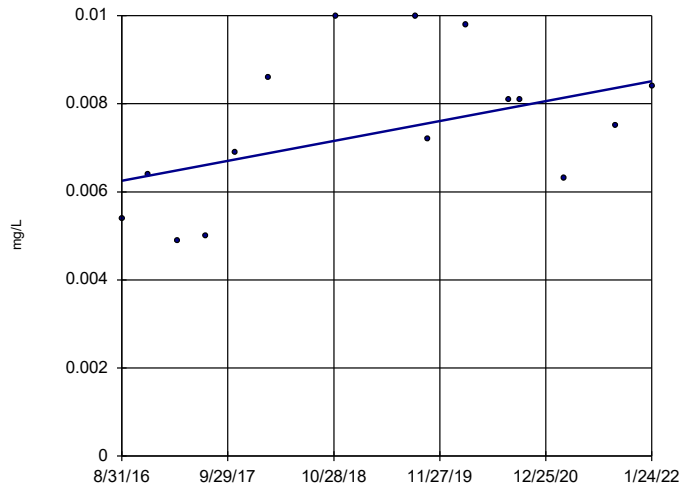
Sen's Slope Estimator  
DGWC-48



n = 16  
Slope = -0.0004126 units per year.  
Mann-Kendall statistic = -66  
critical = -58  
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

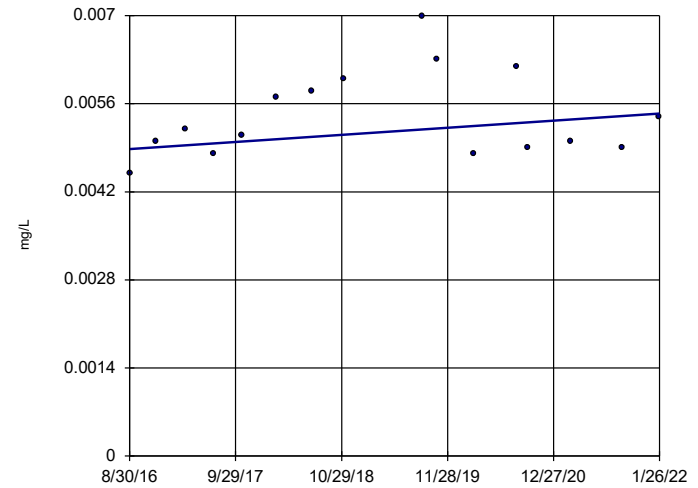
Sen's Slope Estimator  
DGWC-5



n = 15  
Slope = 0.0004175 units per year.  
Mann-Kendall statistic = 31  
critical = 53  
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWC-9

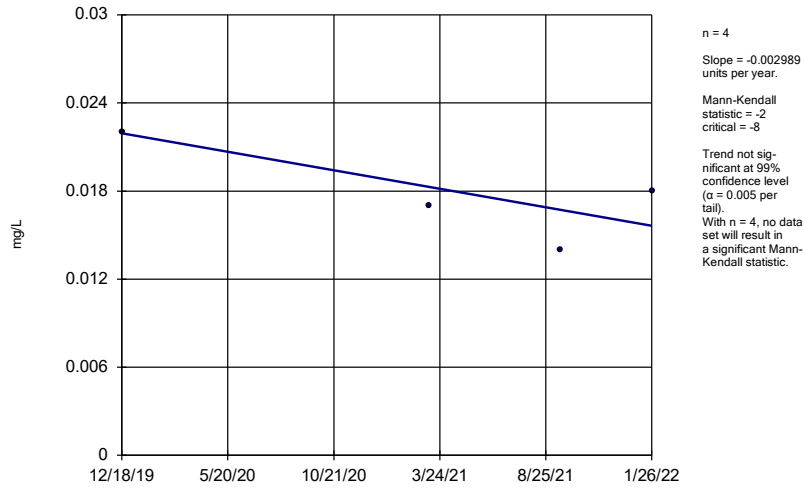


n = 16  
Slope = 0.0001047 units per year.  
Mann-Kendall statistic = 23  
critical = 58  
Trend not significant at 99% confidence level (α = 0.005 per tail).

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Plant McDonough Client: Southern Company Data: McDonough AP

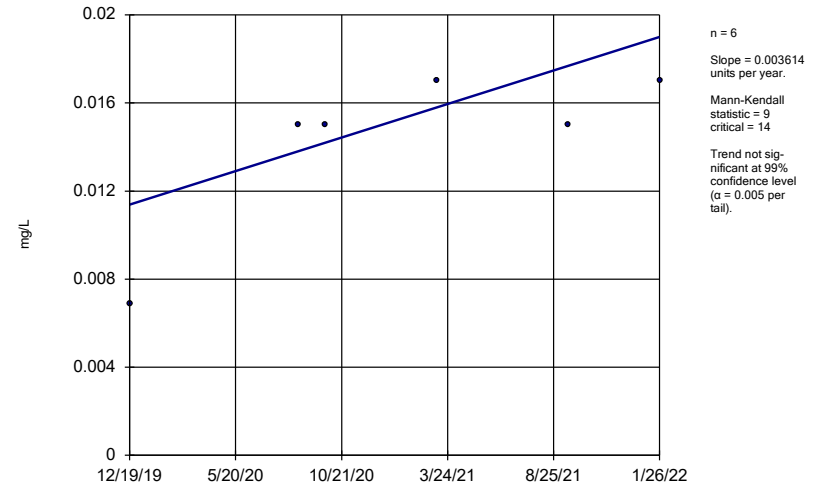


Sen's Slope Estimator  
B-92



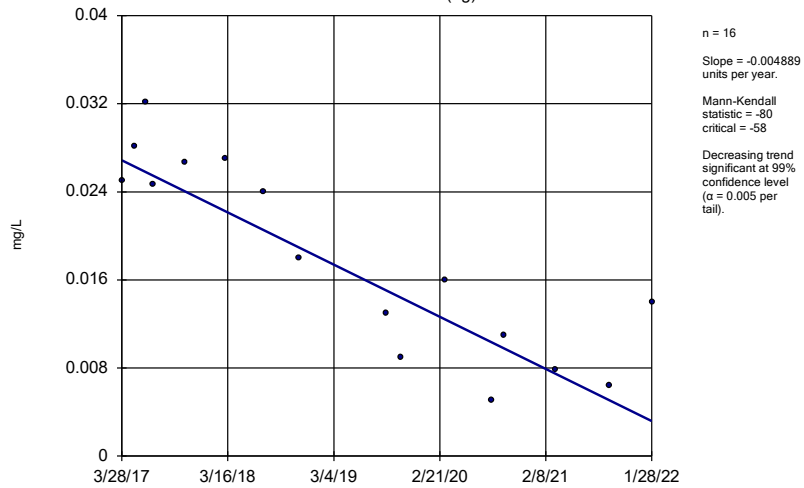
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
B-93



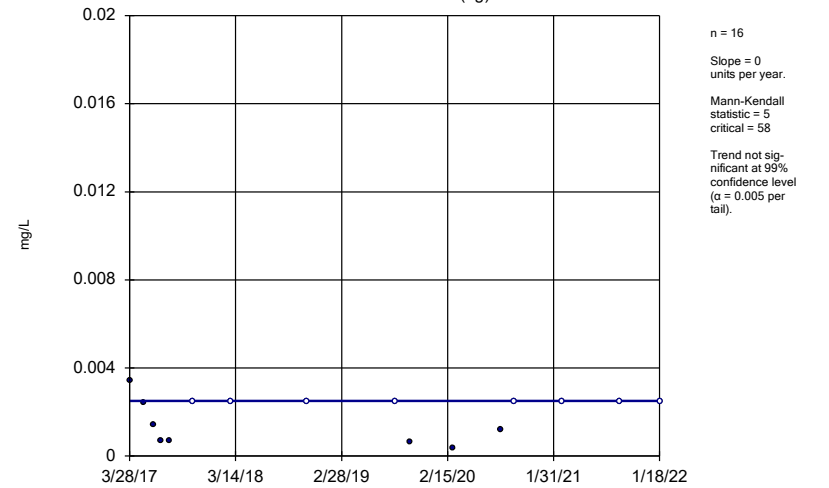
Constituent: Beryllium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-53 (bg)



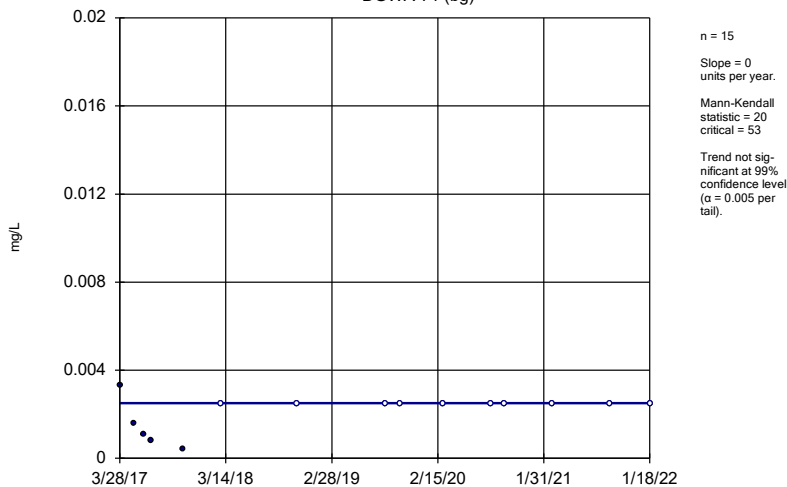
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-70A (bg)



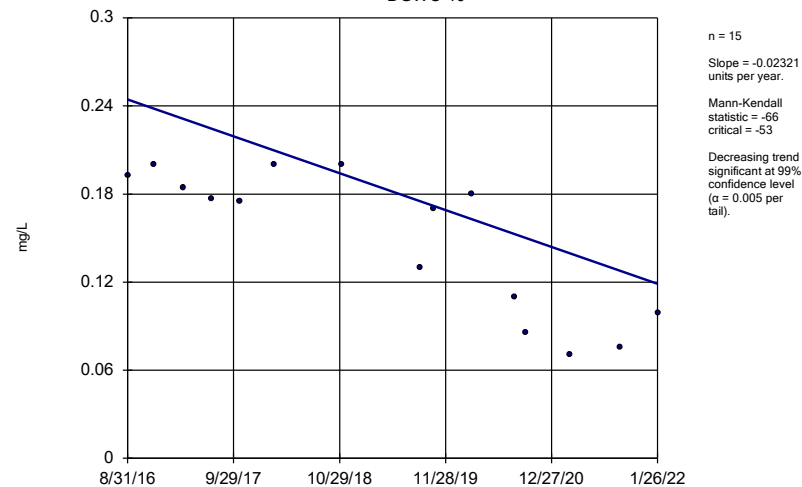
Constituent: Cobalt Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
 DGWA-71 (bg)



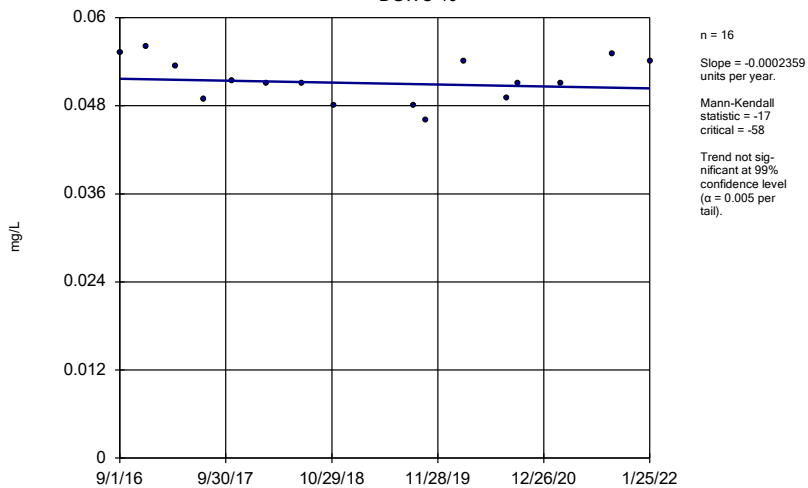
Constituent: Cobalt Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
 DGWC-10



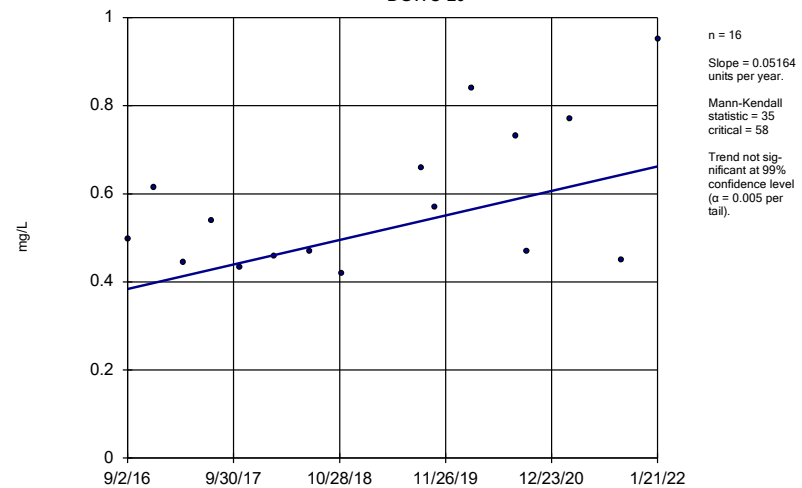
Constituent: Cobalt Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
 DGWC-19



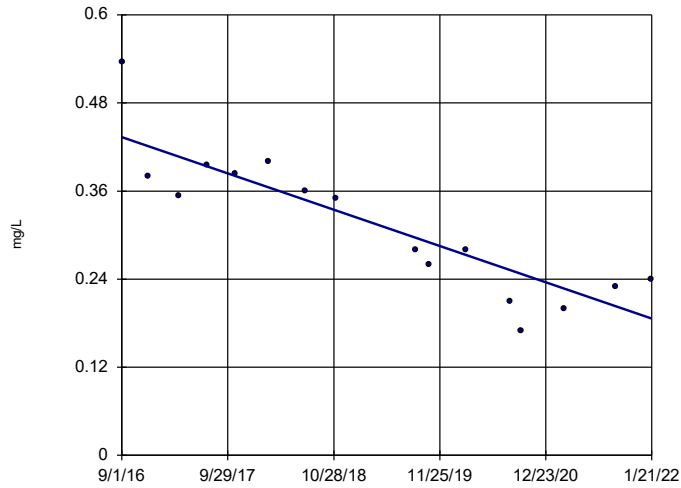
Constituent: Cobalt Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
 DGWC-20



Constituent: Cobalt Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
 Plant McDonough Client: Southern Company Data: McDonough AP

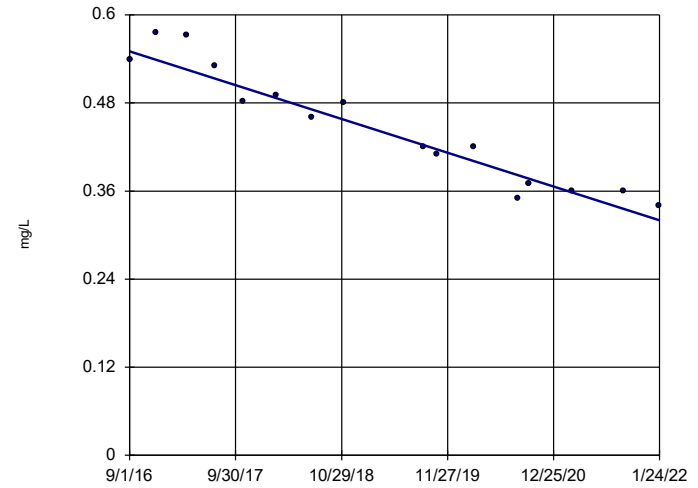
Sen's Slope Estimator  
DGWC-47



n = 16  
Slope = -0.04583  
units per year.  
Mann-Kendall  
statistic = -83  
critical = -58  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Cobalt Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

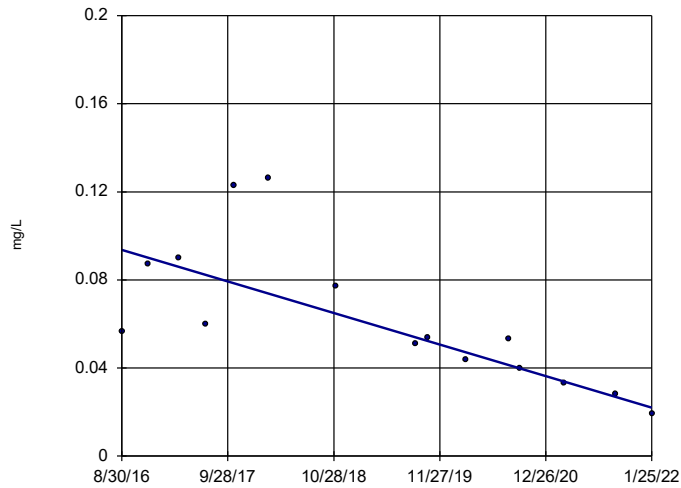
Sen's Slope Estimator  
DGWC-48



n = 16  
Slope = -0.04264  
units per year.  
Mann-Kendall  
statistic = -102  
critical = -58  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

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Plant McDonough Client: Southern Company Data: McDonough AP

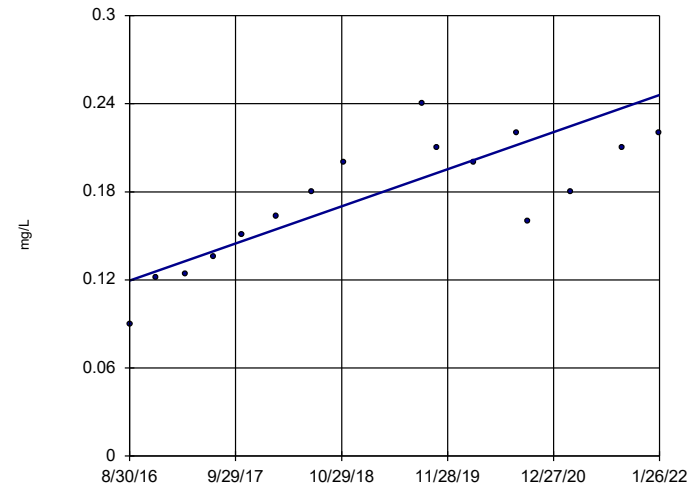
Sen's Slope Estimator  
DGWC-8



n = 15  
Slope = -0.01326  
units per year.  
Mann-Kendall  
statistic = -69  
critical = -53  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Cobalt Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

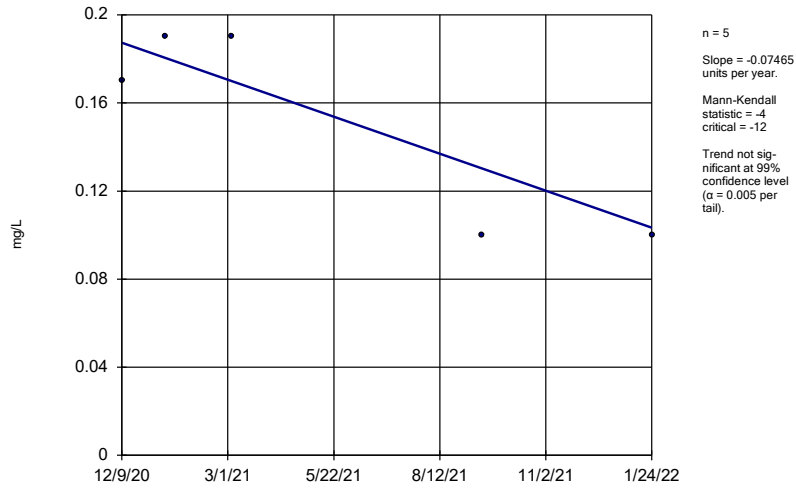
Sen's Slope Estimator  
DGWC-9



n = 16  
Slope = 0.02338  
units per year.  
Mann-Kendall  
statistic = 78  
critical = 58  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

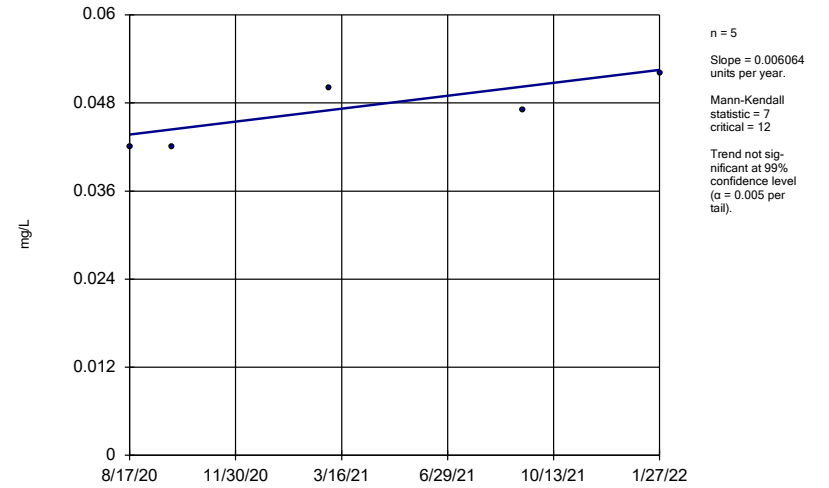
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
B-104D



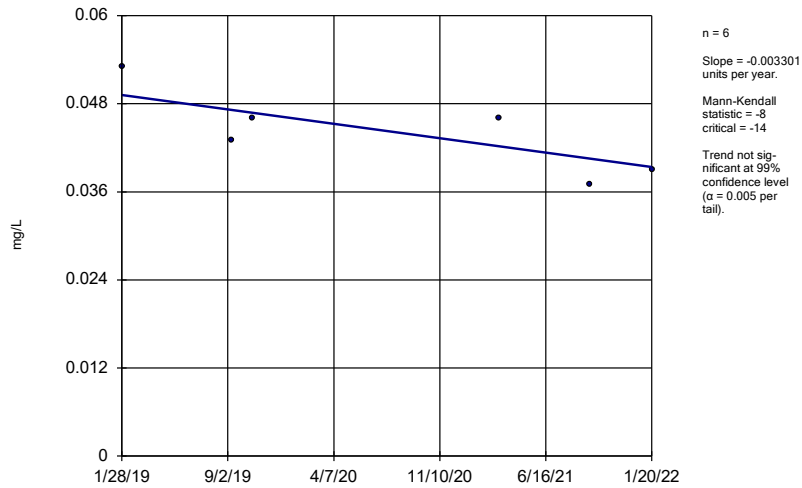
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
B-56



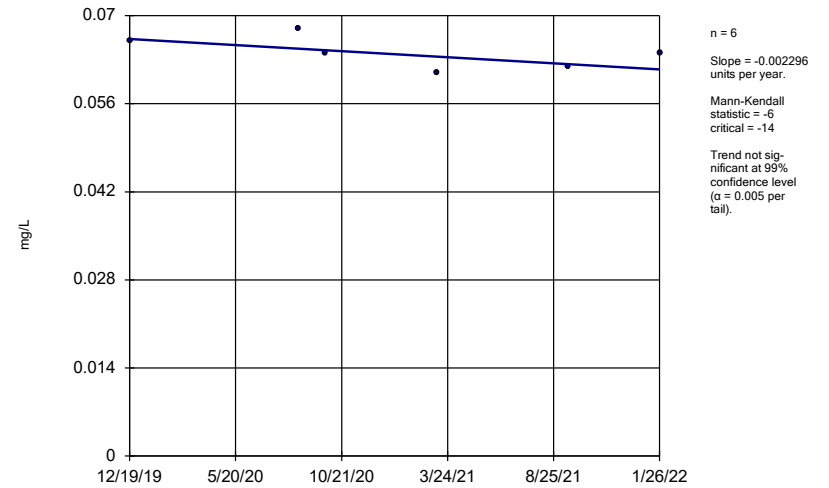
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
B-63



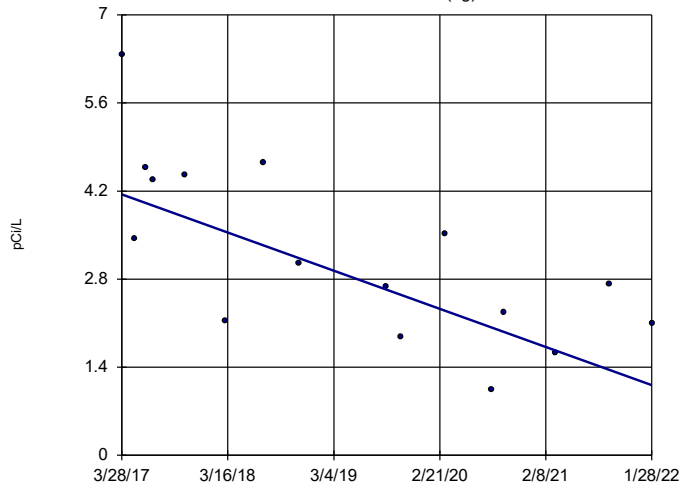
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
B-93



Constituent: Cobalt Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

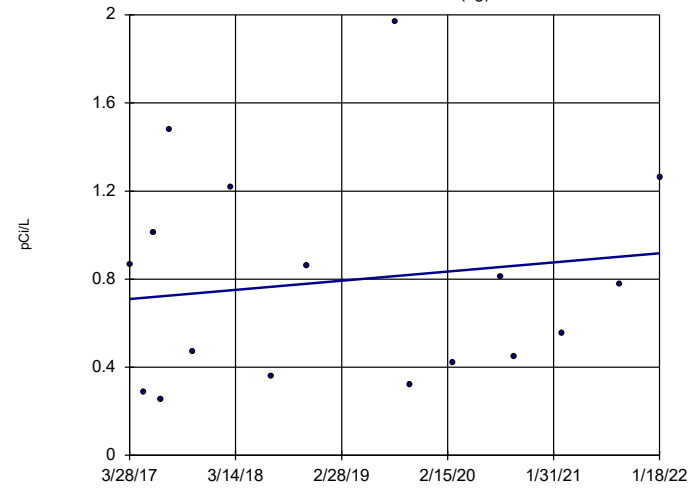
Sen's Slope Estimator  
DGWA-53 (bg)



n = 16  
Slope = -0.6256  
units per year.  
Mann-Kendall  
statistic = -62  
critical = -58  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Tr  
Plant McDonough Client: Southern Company Data: McDonough AP

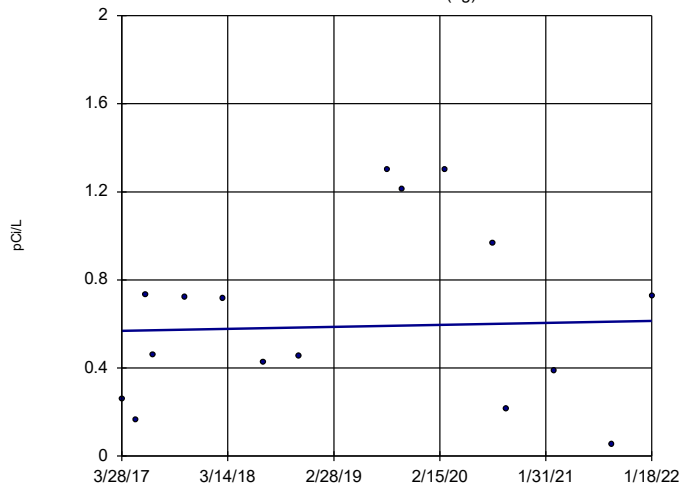
Sen's Slope Estimator  
DGWA-70A (bg)



n = 17  
Slope = 0.04334  
units per year.  
Mann-Kendall  
statistic = 12  
critical = 63  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Tr  
Plant McDonough Client: Southern Company Data: McDonough AP

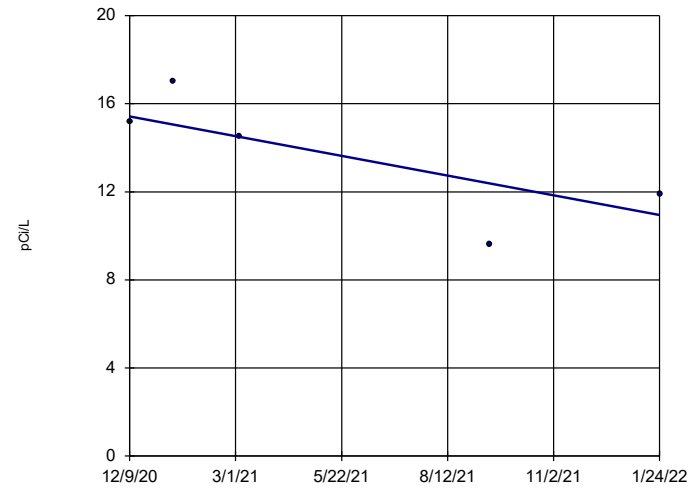
Sen's Slope Estimator  
DGWA-71 (bg)



n = 16  
Slope = 0.0095  
units per year.  
Mann-Kendall  
statistic = 5  
critical = 58  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Tr  
Plant McDonough Client: Southern Company Data: McDonough AP

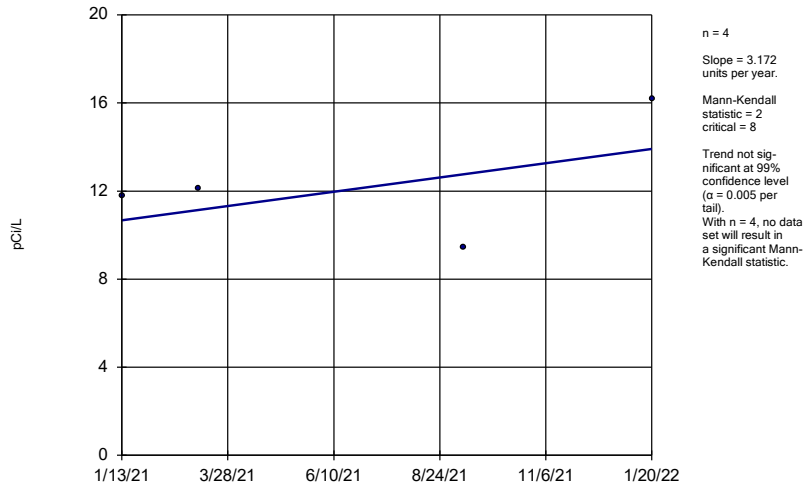
Sen's Slope Estimator  
B-104D



n = 5  
Slope = -3.972  
units per year.  
Mann-Kendall  
statistic = -6  
critical = -12  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

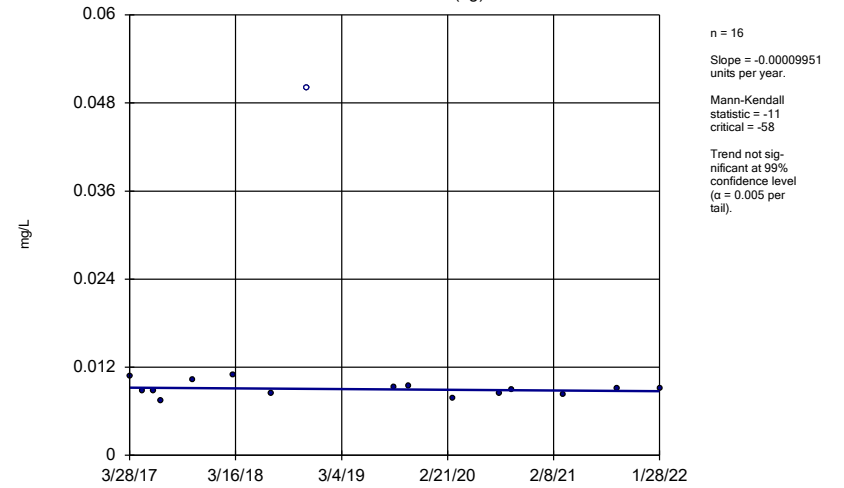
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
B-109D



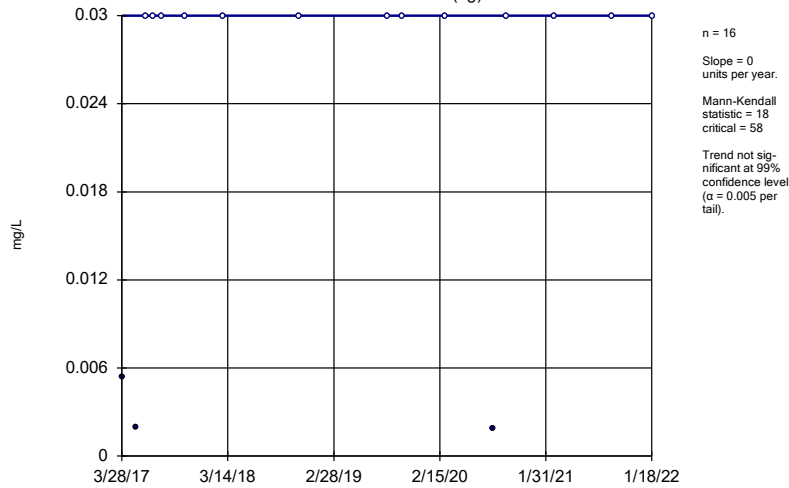
Constituent: Combined Radium 226 + 228 Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Tr  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-53 (bg)



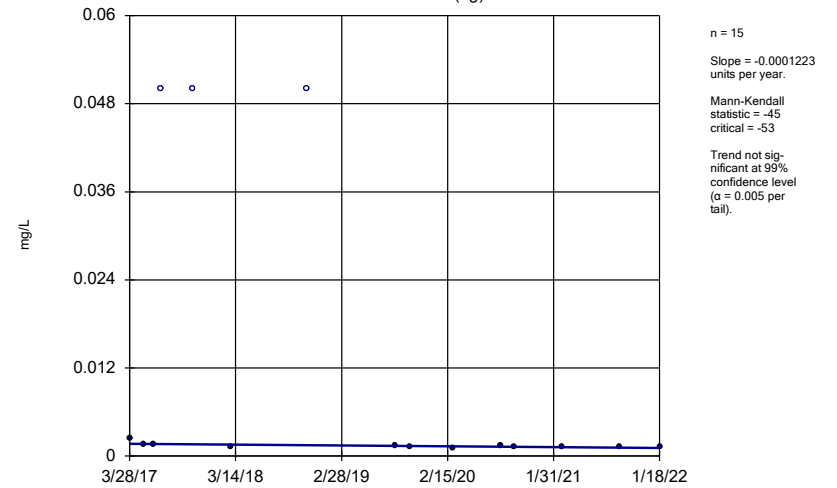
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Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-70A (bg)



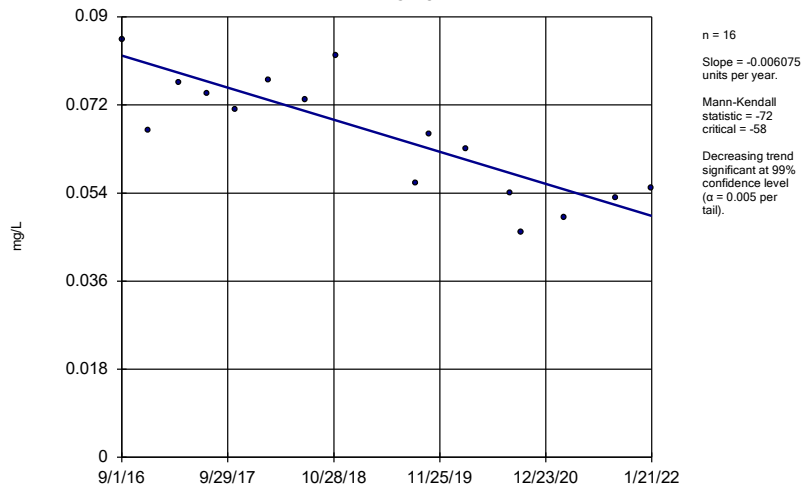
Constituent: Lithium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator  
DGWA-71 (bg)



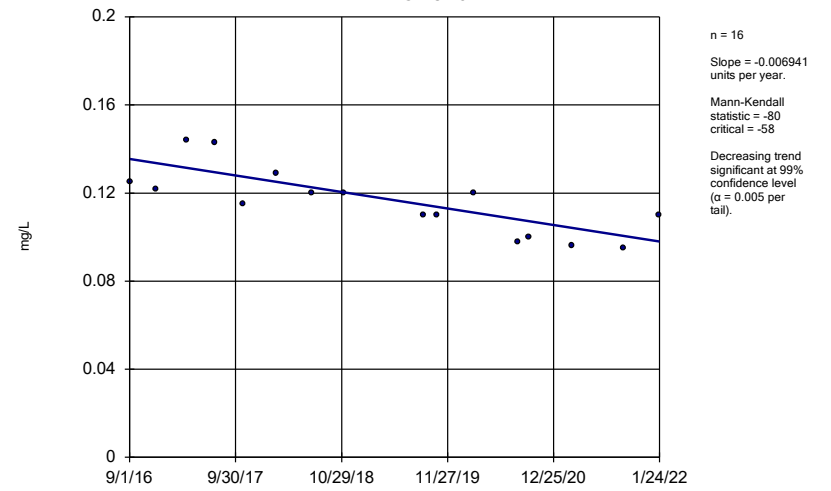
Constituent: Lithium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-47



Constituent: Lithium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

### Sen's Slope Estimator DGWC-48



Constituent: Lithium Analysis Run 4/13/2022 4:38 PM View: AP 234 Appendix IV Trend Tests  
Plant McDonough Client: Southern Company Data: McDonough AP

**APPENDIX C**

**TERRA SYSTEMS, INC. TREATABILITY STUDY  
REPORT**



July 20, 2022

**Todd Rees, PhD, PE**  
*Senior Program Leader*

 **GOLDER** Associates Inc.  
Amherst, MA., Montrose, CO.

## **TERRA SYSTEMS, INC. FINAL REPORT FOR GOLDBER/WSP FOR COAL COMBUSTION RESIDUE AT PLANT MCDONOUGH ATKINSON ASH POND 1, 2, 3, AND 4 TREATABILITY STUDY VERSION 6**

### **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, and calcium oxide and precipitation/adsorption with zero valent iron (ZVI), ferrous oxide, and ferrous sulfide for five groundwaters 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 Georgia Groundwater Protection Standards (GA GWPS) is 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 will investigate six reagents: potassium bicarbonate, sodium bicarbonate, calcium oxide, iron oxide, ferrous sulfide, and zero valent iron.

#### **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 ferrous sulfide
- oxidation and precipitation with calcium oxide
- direct sorption/precipitation onto the ZVI.

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:** Potassium bicarbonate can increase the pH up to about 8.2 SU. Four loadings of LC Carlsen potassium bicarbonate were evaluated in the tests to determine the precipitation of arsenic and molybdenum in two groundwaters from AP-1 (DGWC-69 and DGWC-68A); four loadings of potassium bicarbonate to address cobalt from one groundwater in AP-1 DGWC-40; and four loadings of potassium bicarbonate to address arsenic, beryllium, cobalt, lithium, and selenium in AP 234 (DGWC-48 and DGWC-20).
- **Sodium Bicarbonate:** Sodium bicarbonate can increase the pH up to about 8.3 SU. Four loadings of Genesis sodium bicarbonate were evaluated in the tests to determine precipitation of cobalt from one groundwater in AP-1 (DGWC-69 and DGWC-68A); and four loadings of sodium bicarbonate to address arsenic, beryllium, cobalt, lithium, and selenium in AP 234 (DGWC-48 and DGWC-20).
- **ZVI:** ZVI can enhance precipitation of cobalt and can sorb this metal. A commercially available product of submicron ZVI (Ferox Nanostar) from Hepure (Flemington NJ) and Nanoiron s.r.o (Zudicgivue, Czech Republic) were evaluated. Three loadings of ZVI were evaluated in the tests to determine the precipitation/sorption of arsenic and molybdenum will be evaluated in the groundwater from AP-1 DGWC-69 and DGWC-68A; determine precipitation of cobalt from one groundwater in AP-1 (DGWC-40); and to address arsenic, beryllium, cobalt, lithium, and selenium in AP-234.
- **Calcium oxide.** Calcium oxide is prepared by heating limestone. In water, it will form calcium hydroxide. Calcium hydroxide has a solubility of about 1.6 g/L and a pH of 12.5 SU. Three loadings of Sigma Aldrich >98% calcium oxide were evaluated for the precipitation of arsenic and molybdenum in two groundwaters from AP-1 (DGWC-69 and DGWC-68A).
- **Ferric oxide.** Ferric oxide ( $\text{Fe}_2\text{O}_3$ ) is insoluble in water and has a pH of 6-8. Three loadings of Sigma Aldrich ferric oxide (<5  $\mu\text{m}$ , 96%) were evaluated for the precipitation of arsenic and molybdenum in two groundwaters from AP-1 (DGWC-69 and DGWC-68A).
- **Ferrous sulfide.** Ferrous sulfide ( $\text{FeS}$ ) is insoluble in water and has a pH of 9.5-12.5. Three loadings of Sigma Aldrich ferrous sulfide technical grade were evaluated for the precipitation of arsenic and molybdenum in two groundwaters from AP-1 (DGWC-69 and DGWC-68A).

## 2.2 Bench-scale Groundwater Collection

Groundwater samples were collected from the five locations. With 1 L reaction vessels for each treatment, about 5 gallons of each of the five groundwaters were required. The samples were delivered to the TSI under a chain of custody. Samples from DGWC-20, DGWC-48, DGWC-68A, DGWC-19, DGWC-47 and DGWC-69 were delivered to TSI on 1/28/22 and stored in refrigerators. The samples from DGWC-20, DGWC-48, and DGWC-69 were transferred to 1.3-

gallon jugs while purging with nitrogen gas. The sample from AP-1 DCWC-68A was received in 1-gallon jugs. Golder/WSP decided not to test the DGWC-19 and DGWC-47 groundwaters. The groundwater sample from AP-1 DGWC-40 was received on 2/10/22.

### **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 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 total suspended solids (TSS) were determined by weighing the 0.2  $\mu\text{m}$  nylon filter before filtering the samples and after filtration and drying in a 105 °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 12 to 13 reactors were set up for each site. The studies were prepared in an anaerobic chamber with a 92% nitrogen, 5% carbon dioxide, and 3% hydrogen atmosphere to maintain the redox state of the groundwater.

AP-1 (Arsenic and Molybdenum) DGWC-69 and DGWC-68A

- Control
- Potassium Bicarbonate: 3 dosages (2, 5, and 10 g/L)
- Calcium Oxide: 3 dosages (1, 2, and 5 g/L)
- Ferric Oxide: 3 Dosages (0.5, 1.0, and 2.0 g/L)
- Ferrous Sulfide: 3 Dosages (0.5, 1.0, and 2.0 g/L)

AP-1 (Cobalt) DGWC-40

- Control
- Potassium Bicarbonate: 4 dosages (1, 2, 5, and 10 g/L)
- Sodium Bicarbonate: 4 dosages (1, 2, 5, and 10 g/L)
- ZVI: 3 Dosages (0.5, 1.0, and 1.5 g/L)

AP-2 and 3/4 (Arsenic, Beryllium, Cobalt, Lithium, and Selenium) DGWC-48 and DGWC-20

- Control
- Potassium Bicarbonate: 4 dosages (1, 2, 5, and 10 g/L)
- Sodium Bicarbonate: 4 dosages (1, 2, 5, and 10 g/L)
- ZVI: 3 Dosages (0.5, 1.0, and 1.5 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 lithium for DGWC-48 and DGWC-20
- total iron, potassium, manganese, magnesium, and sodium
- dissolved arsenic, beryllium, cobalt, lithium, molybdenum, and selenium (based upon contaminants of concern for each site). The samples were filtered through 0.2  $\mu\text{m}$  nylon filters and the filtrates were divided into bottles for DOC and metals.
- dissolved lithium for DGWC-48 and DGWC-20
- dissolved organic carbon (DOC)
- sulfate

Eurofins Lancaster Laboratories of Lancaster PA 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, screening, and rebound tests are shown in Table 1. The volumes were adjusted to account for required dilutions and volumes of water available.

### 3.0 AP-1

#### 3.1 AP-1 Initial Characterization Results

Table 2 has the results of the field parameters, Hach tests, metals, DOC, and sulfate results for the three groundwater samples in AP-1.

**AP-1 DGWC-69.** The pH ranged from 6.4 to 7.3 with a moderate bicarbonate alkalinity of 60 mg/L  $\text{CaCO}_3$ . There was a positive ORP (167 mV) and moderately high dissolved oxygen (9.8 mg/L). The TSS was 8.4 mg/L with a hardness 40 mg/L, 0.01 mg/L ferrous iron, and no sulfide. The pH increased from 6.4 to 7.8 SU with 1 g/L sodium bicarbonate and increased to 8.3 with 10 g/L. The pH increased from 7.1 to 8.2 SU with 1 g/L potassium bicarbonate and to 8.4 with 10 g/L. This groundwater has low 6 mg/L sulfate and 1.5 mg/L DOC. Total arsenic was 0.022 mg/L and dissolved arsenic was 0.020 mg/L; both exceeded the GA GWPS. Molybdenum was detected but below 0.006 mg/L and was below the GA GWPS. The groundwater contained 0.13 mg/L total iron, 2.3 mg/L total magnesium, 0.027 mg/L total manganese, 2.4 mg/L potassium, and 9.5 mg/L sodium.

**AP-1 DGWC-68A.** The pH ranged from 6.3 to 6.8 with a moderate bicarbonate alkalinity of 200 mg/L  $\text{CaCO}_3$ . There was a positive ORP (224 mV) and moderately high dissolved oxygen (10.8 mg/L). The TSS was 13.8 mg/L with a hardness 120 mg/L, 0.01 mg/L ferrous iron, and no sulfide. The pH increased from 6.8 to 7.5 SU with 1 g/L sodium bicarbonate and increased to 8.2 with 10 g/L. The pH increased from 6.6 to 7.2 SU with 1 g/L potassium bicarbonate and to 8.2 with 10 g/L. This groundwater has moderate 78 mg/L sulfate and 1.1 mg/L DOC. Total arsenic and

dissolved arsenic not detected. Molybdenum was relatively high with 0.22 g/L total and 0.20 mg/L dissolved; both exceeded the GA GWPS of 0.10 mg/L. The groundwater contained 0.049 mg/L total iron, 18 mg/L total magnesium, 0.096 mg/L total manganese, 3.8 mg/L potassium, and 11 mg/L sodium.

**AP-1 DGWC-40.** The initial pH was 4.8 with a bicarbonate alkalinity of 5 mg/L CaCO<sub>3</sub>. There was a positive ORP (226 mV) and moderate dissolved oxygen (5.5 mg/L). The TSS was 0.8 mg/L with a hardness of 240 mg/L, 0.28 mg/L ferrous iron, and no sulfide. The pH increased from 4.8 to 6.9 SU with 1 g/L sodium bicarbonate and increased to 8.0 with 10 g/L. The pH increased from 4.8 to 6.9 SU with 1 g/L potassium bicarbonate and to 7.9 with 10 g/L. This groundwater has moderate 190 mg/L sulfate and no detectable DOC. Total cobalt was detected at 0.039 mg/L and dissolved cobalt at 0.038 mg/L; both were slightly above the GA GWPS of 0.032 mg/L. The groundwater contained 0.039 mg/L total iron, 19 mg/L total magnesium, 3.4 mg/L total manganese, 6.1 mg/L potassium, and 19 mg/L sodium.

### 3.2 AP-1 Testing Results

**Well DGWC-69 Summary.** Table 3 has the field parameters and ELLE results for this groundwater.

On Day 0, the control pH was 6.6 and increased to 7.7 for the 2 g/L loading of potassium bicarbonate. The highest dosage of 10g/L potassium buffers had a pH of 8.5 on Day 0. On Day 7, the pH for the potassium bicarbonate treatments ranged from 7.8 to 8.4, 11.9 to 12.1 for the calcium oxide treatments, from 7.1 to 8.7 for the iron oxide, and from 6.2 to 6.8 for the ferrous sulfide treatments. The ORPs were positive (except for the CaO treatments where the very high pHs caused negative ORPs) and ranged from -76 to 247 mV. DO ranged from 4.4 to 8.0 mg/L. The total suspended solids ranged from 0 to 2,673 mg/L. The treatments with 5 g/L KHCO<sub>3</sub>, 1-5 g/L CaO, 0.5-2 g/L Fe<sub>2</sub>O<sub>3</sub>, and 0.5-2.0 FeS had elevated TSS. Bicarbonate alkalinity was moderate in the control (35 mg/L as CaCO<sub>3</sub>) and increased with bicarbonate additions. Phenolphthalein alkalinity was very high in the CaO treatments due to the extreme pHs. The hardness ranged from 40 to 1,820 mg/L as CaCO<sub>3</sub>. Only 1 and 2 g/L FeS treatments had a little ferrous iron. Sulfide was low (0.01 to 0.35 mg/L).

Sulfate ranged from 8.4 to 25 mg/L. Little DOC was detected; the higher dosages of buffer had the most, 2.1 and 4.9 mg/L. Total arsenic ranged from 0.0065 to 0.025 mg/L with the following treatments below the GA GWPS: 1 and 2 g/L FeS. Dissolved arsenic ranged from 0.00074 to 0.024 mg/L with the following treatments below the GA GWSP: 1 g/L CaO, 2 g/L CaO, 5 g/L CaO, 0.5 g/L Fe<sub>2</sub>O<sub>3</sub>, 1 g/L Fe<sub>2</sub>O<sub>3</sub>, 2 g/L Fe<sub>2</sub>O<sub>3</sub>, 0.5 g/L FeS, 1.0 g/L FeS, and 2 g/L FeS. Total molybdenum ranged from 0.0034 to 0.010 mg/L; all were below the GA GWPS. Dissolved molybdenum ranged from 0.00017 to 0.0057 mg/L with dissolved molybdenum below the GA GWPS in all treatments. Iron increased in almost all treatments except for the KHCO<sub>3</sub> treatments. Total magnesium did not change much except for the CaO treatments. Total manganese increased in all treatments. Potassium increased with the increasing loadings of potassium bicarbonate. Sodium ranged from 9.1 to 19 mg/L.

The CaO, Fe<sub>2</sub>O<sub>3</sub>, and FeS treatments showed significant reductions in dissolved arsenic with all of these treatments reducing dissolved arsenic below the GA GWPS. The Fe<sub>2</sub>O<sub>3</sub> and the highest dosage of FeS reduced the dissolved molybdenum by more 50% and all treatments including the control were below the GA GWPS for molybdenum of 0.10 mg/L.

**Well DGWC-68A Summary.** Table 4 has the field parameters and ELLE results for this groundwater. On Day 0, the control pH was 6.6 and increased to 7.7 for the 2 g/L loading of potassium bicarbonate. The highest dosage of 10g/L potassium buffers had a pH of 8.5 on Day 7. The pH drifted down slightly over the 7-day incubation period. By Day 7, the pHs ranged from 11.6 to 11.9 for the calcium oxide treatments, from 6.7 to 8.1 for the iron oxide, and from 6.4 to 6.5 for the ferrous sulfide treatments. The ORPS were positive (except for the CaO treatments where the very high pHs caused negative ORPs) and ranged from -38 to 277 mV. DO ranged from 3.5 to 9.1 mg/L. The total suspended solids ranged from 0.9 to 2,530 mg/L. The treatments with 1-5 g/L CaO, 0.5-2 g/L Fe<sub>2</sub>O<sub>3</sub>, and 0.5-2.0 FeS had elevated TSS. Bicarbonate alkalinity was moderate in the control (180 mg/L as CaCO<sub>3</sub>) and increased with bicarbonate additions. Phenolphthalein alkalinity was very high in the CaO treatments due to the extreme pHs. The hardness ranged from 120 to 1,700 mg/L as CaCO<sub>3</sub>. None of the treatments had much ferrous iron. Sulfide was low (0.01 to 0.10 mg/L).

Sulfate ranged from 33 to 54 mg/L. Little DOC was detected; the highest dosage of buffer had the most, 7.8 mg/L. Total arsenic ranged from <0.00068 to 0.0024 mg/L with all treatments below the GA GWPS. Dissolved arsenic was not detected. Total molybdenum ranged from 0.026 to 0.21 mg/L. Dissolved molybdenum ranged from 0.031 to 0.21 mg/L with all measurements higher than the Control Day 0. The following treatments were less than the GA GWPS for dissolved molybdenum on Day 7: 1 g/L Fe<sub>2</sub>O<sub>3</sub>, 2 g/L Fe<sub>2</sub>O<sub>3</sub>, and 2 g/L FeS. Iron increased in almost all treatments except for the KHCO<sub>3</sub> treatments. Total magnesium ranged from 10 to 30 mg/L and was highest in the CaO treatments. Total manganese increased in all treatments. Potassium increased with the increasing loadings of potassium bicarbonate. Sodium ranged from 9.1 to 19 mg/L.

Arsenic was below detection limits except for total arsenic in the 5 g/L CaO and 0.5 to 2.0 g/L Fe<sub>2</sub>O<sub>3</sub> treatments. The higher dosages of Fe<sub>2</sub>O<sub>3</sub> and the highest dosage of FeS reduced the dissolved molybdenum to below the GA GWPS.

**Well DGWC-40 Summary.** Table 5 has the field parameters and ELLE results for this groundwater. The control pH was 4.8 on Day 0 and increased to between 6.8 and 6.9 for the lowest loading of potassium and sodium bicarbonate with the highest dosage of buffers having pHs of 8.0 to 8.1. The pHs were generally slightly lower (-1.1 to 0.5 SU). The pHs in the ZVI treatments ranged from 5.7 to 6.1 SU on Day 7. The ORPS were positive (except for the highest ZVI loading) and ranged from -335 to 256 mV. DO ranged from 1.4 to 5.4 mg/L. There were not much total suspended solids (0 to 8.2 mg/L) except in the treatments with ZVI (likely due to carryover of the ZVI). Bicarbonate alkalinity was low in the control and increased with potassium and sodium bicarbonate additions. The hardness ranged from 180 to 240 mg/L. Only the control (0.14 mg/L) and the ZVI treatments (0.11 to 9.0 mg/L) had much ferrous iron. Sulfide was low (0.02 to 0.17 mg/L).

Sulfate ranged from 210 to 230 mg/L. Little DOC was detected (0.52 to 3.2 mg/L). Total Co ranged from 0.035 to 0.044 mg/L with the GA GWPS of 0.032 mg/L for cobalt. Only the 1.5 g/L ZVI showed 34.2% reduction to below the GA GWPS. Iron increased in almost all treatments from the IC but the most iron was found in the ZVI treatments. Magnesium ranged from 18 to 20 mg/L and manganese from 3.1 to 4.0; neither of these metals were impacted by the bicarbonate or ZVI treatments. Potassium and sodium increased with the increasing loadings of potassium and sodium bicarbonate.

Only the 1.5 g/L ZVI treatment showed removal of dissolved cobalt to below the GA GWPS with a 34.2% reduction.

### 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 all treatments with calcium oxide, ferric oxide, and ferrous sulfide reduced dissolved arsenic to below the GA GWPS but not the potassium bicarbonate treatments. The AP-1 DGWC-68A had no detectable dissolved arsenic.

**Cobalt.** The GA GWPS for cobalt is 0.032 mg/L. Only the 1.5 g/L ZVI treatment reduced dissolved Co in the AP-1 DGWC-40 groundwater 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. Ferrous oxide at 1 and 2 g/L loadings and the highest loading of ferrous sulfide was effective in reducing dissolved Mo in the DGWC-68A groundwater to below the GA GWPS.

**Overall Conclusions.** The calcium oxide, ferric oxide, and ferrous sulfide reduced arsenic to below the GA GWPS in the DGWC-69 groundwater. Only the highest loading of ZVI reduced cobalt in the AP-1 DGWC-40 groundwater to below the GA GWPS. The higher dosages of ferric oxide and ferrous sulfide were effective for dissolved molybdenum in the DGWC-68A groundwater. The AP-1 DGWC-69 groundwater did not have dissolved arsenic above the GA GWPS.

## 4.0 AP-2 and 3/4

### 4.1 AP-2 and 3/4 Initial Characterization Results

Table 7 has the results of the field parameters, Hach tests, metals, DOC, and sulfate results for the two groundwater samples in AP-2 and 3/4.

**Well DGWC-48.** The pH ranged from 4.0 to 4.5 with no bicarbonate alkalinity. There was a positive ORP (338 mV) and moderately high dissolved oxygen (11.2 mg/L). The TSS was 0 mg/L with a hardness 20 mg/L, 2.52 mg/L ferrous iron, and no sulfide. The pH increased from 4.5 to 7.5 SU with 1 g/L sodium bicarbonate and increased to 8.2 with 10 g/L. The pH increased from 4.0 to 7.1 SU with 1 g/L potassium bicarbonate and to 8.2 with 10 g/L. This groundwater has high 520 mg/L sulfate and only 0.97 mg/L DOC. Total arsenic and dissolved arsenic were non-detect. Beryllium ranged from 0.0079 to 0.0086 mg/L which were above the GA GWPS. Cobalt was found at 0.33 to 0.35 mg/L above the GA GWPS of 0.032 mg/L. Lithium was found at 0.10 to 0.11 mg/L above the GA GWPS of 0.040 mg/L. No selenium was detected. The groundwater contained 3.9 mg/L total iron, 16 mg/L total magnesium, 13 mg/L total manganese, 14 mg/L potassium, and 23 mg/L sodium.

**Well DGWC-20.** The pH ranged from 4.4 to 5.0 with little bicarbonate alkalinity of <5 mg/L CaCO<sub>3</sub>. There was a positive ORP (423 mV) and moderately high dissolved oxygen (9.6 mg/L). The TSS was 6.6 mg/L with no hardness, 0.07 mg/L ferrous iron, and no sulfide. The pH increased from 5.0 to 7.3 SU with 1 g/L sodium bicarbonate and increased to 8.1 with 10 g/L. The pH increased from 4.5 to 7.0 SU with 1 g/L potassium bicarbonate and to 8.1 with 10 g/L. This

groundwater has moderate 190 mg/L sulfate and no detectable DOC. Total cobalt was detected at 0.039 mg/L and dissolved cobalt at 0.038 mg/L. The groundwater was slightly hard with 0.039 mg/L total iron, 19 mg/L total magnesium, 3.4 mg/L total manganese, 6.1 mg/L potassium, and 19 mg/L sodium. has high 490 mg/L sulfate and only 0.71 mg/L DOC. Total arsenic and dissolved arsenic were 0.014 to 0.016 mg/L; above the GA GWPS. Beryllium ranged from 0.0073 to 0.0083 mg/L ; above the GA GWPS. Cobalt was found at 0.96 to 1.0 mg/L; above the GA GWPS. Lithium and selenium were not detected. The groundwater contained 0.12 mg/L total iron, 26 mg/L total magnesium, 42 mg/L total manganese, 14 mg/L potassium, and 24 mg/L sodium.

#### **4.2 AP-2 and 3/4 Testing Results**

**Well DGWC-48 Summary.** Table 8 has the field parameters and ELLE results for this groundwater. On Day 0, the control pH was 4.2 and increased to 6.9 for the lowest 1 g/L loading of potassium bicarbonate and to 7.1 for the lowest 1 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 ZVI treatments on Day 7 ranged 5.0 to 6.4 SU. The ORPS on Day 7 were positive and ranged from 59 to 351 mV. DO ranged from 3.4 to 8.8 mg/L. The total suspended solids ranged from 11 to 150 mg/L. The treatments with 10 g/L KHCO<sub>3</sub>, 10 g/L NaHCO<sub>3</sub> and ZVI had elevated TSS. Bicarbonate alkalinity was low in the control and ZVI treatments (5-10 mg/L CaCO<sub>3</sub>) and increased with bicarbonate additions. The hardness ranged from <20 to 220 mg/L with higher readings at the higher buffer loadings. Only control, 10 g/L sodium bicarbonate and the ZVI treatments had more than 0.15 mg/L ferrous iron. Sulfide was low (0.02 to 0.09 mg/L).

Sulfate ranged from 330 to 400 mg/L. Little DOC was detected (0.79 to 11 mg/L); the highest dosage of buffer had the most, 9.0 and 11 mg/L. Total and dissolved arsenic were not detected except total arsenic in the treatments with ZVI; dissolved As were well below the GA GWPS in all treatments. Total beryllium ranged from 0.0050 to 0.0073 mg/L; all samples were above the GA GWPS of 0.004 mg/L. Dissolved beryllium ranged from 0.00085 to 0.0071 mg/L with only the Control and ZVI treatments exceeding the GA GWPS. Total cobalt was moderate ranging from 0.17 to 0.34 mg/L. The following treatments showed more than 50% reductions in dissolved Co: 10 g/L KHCO<sub>3</sub> and 10 g/L NaHCO<sub>3</sub> with the no treatments decreasing the cobalt concentrations to below the GA GWPS. Total lithium ranged from 0.11 to 0.12 mg/L and dissolved lithium from 0.099 to 0.13 mg/L. None of the treatments reduced dissolved Li below the GA GWPS. Selenate and selenite were spiked into the AP-2 and 3/4 DGWC-48 groundwater. On Day 7, total Se ranged from 0.17 to 0.52 mg/L and dissolved selenium of 0.14 to 0.46 mg/L. No treatment reached the GA GWPS of 0.050 mg/L. Iron decreased in almost all treatments from the IC except for the ZVI treatments. Total magnesium did not change much ranging from 15 to 16 mg/L. Total manganese ranged from 5.3 to 14 mg/L and was reduced by >50% only in the 10 g/L NaHCO<sub>3</sub> treatments. Potassium and sodium increased with the increasing loadings of potassium and sodium bicarbonate.,

The 1-10 g/L of both the potassium and sodium bicarbonate treatments showed significant (>50%) reductions in dissolved beryllium to below the GA GWPS. No treatment resulted in decreases in dissolved cobalt to below the GA GWPS. None of the treatments reduced the dissolved lithium to below the GA GWPS. Only the highest loading of 1.5 g/L ZVI removed more than 50% of the dissolved selenium from the spiked Control, but no treatment reached the GA GWPS for dissolved selenium. Arsenic was below the GA GWPS in all treatments.

**Well DGWC-20 Summary.** Table 9 has the field parameters and ELLE results for this groundwater. The total cobalt, selenium, iron, magnesium, manganese, potassium, and sodium in



the 2 g/L  $\text{KHCO}_3$  treatment are low with the dissolved cobalt and selenium being considerably higher. The 5 and 10 g/L  $\text{KHCO}_3$  treatments were reanalyzed and the tables have been updated.

The control pH at Day 0 was 4.5 SU and increased to 6.8 for the lowest loading of potassium bicarbonate and to 7.7 for the lowest loading of sodium bicarbonate. The highest dosage of buffers had pHs of 7.6-7.7 on Day 7. The ORPS were positive and ranged from 163 to 297 mV. DO ranged from 6.7 to 7.8 mg/L. The total suspended solids ranged from 2.6 to 460 mg/L. The treatments with 10 g/L  $\text{KHCO}_3$ , 5 g/L  $\text{NaHCO}_3$ , 10 g/L  $\text{NaHCO}_3$  and 1.5 g/L ZVI had elevated TSS above 100 mg/L. Bicarbonate alkalinity was low in the control and increased with bicarbonate additions. The hardness ranged from <20 to 460 mg/L. Little ferrous iron was detected (0.03 to 0.45 mg/L). Sulfide was low (0 to 0.02 mg/L).

Sulfate ranged from 480 to 600 mg/L. Little DOC was detected; the highest dosage of buffer had the most, 4.8 and 10 mg/L. Total arsenic ranged from <0.00068 to 0.036 mg/L with the 2 g/L  $\text{KHCO}_3$  treatment having no detectable arsenic. Dissolved arsenic ranged from <0.00070 to 0.019 mg/L with the 1, 2, 5, and 10 g/L  $\text{KHCO}_3$ , and 1 and 2 g/L  $\text{NaHCO}_3$  treatments having no detectable dissolved arsenic and the 5 and 10 g/L  $\text{NaHCO}_3$  treatments also having dissolved arsenic below the GA GWPS. Total beryllium ranged from <0.00012 to 0.0011 mg/L; the 2 g/L  $\text{KHCO}_3$  treatment was below the GA GWPS. Dissolved beryllium ranged from 0.00022 to 0.0099 mg/L with all  $\text{KHCO}_3$  and  $\text{NaHCO}_3$  treatments below the GA GWPS. Total cobalt was moderate and ranged from <0.00016 to 1.1 mg/L but none of the treatments reached the GA GWPS. The following treatments showed more than 50% reductions in dissolved Co: 5 g/L  $\text{KHCO}_3$ , 10 g/L  $\text{KHCO}_3$ , 5 g/L  $\text{NaHCO}_3$ , and 10 g/L  $\text{NaHCO}_3$  but none met the GA GWPS. Total lithium was not detected. Dissolved Li ranged from 0.014 to 0.023 mg/L in the  $\text{KHCO}_3$  and  $\text{NaHCO}_3$  treatments and were higher than the control. Lithium was below the GA GWPS in all treatments. Selenate and selenite were spiked into the AP-2 and 3/4 DGWC-20 groundwater. Total Se ranged from <0.00028 to 0.50 mg/L and dissolved Se from 0.22 to 0.49 mg/L. Only the 2 g/L  $\text{KHCO}_3$  treatment met the GA GWPS for selenium. No treatments reduced the dissolved Se to the GA GWPS however the ZVI treatments did show lower dissolved Se to 0.26 to 0.30 mg/L. Total iron increased in many treatments especially for the ZVI treatments. Total magnesium did not change much except for the 2 g/L  $\text{KHCO}_3$  treatment. Total manganese was reduced by >50% in the 2 g/L  $\text{KHCO}_3$ , 5 g/L  $\text{KHCO}_3$ , 5 g/L  $\text{NaHCO}_3$ , and 10 g/L  $\text{NaHCO}_3$  treatments. Potassium and sodium increased with the increasing loadings of potassium and sodium bicarbonate.,

The 1-10 g/L of both the potassium and sodium bicarbonate treatments showed significant reductions in dissolved arsenic and dissolved beryllium. The higher dosages of 5-10 g/L  $\text{KHCO}_3$  and 5-10 g/L  $\text{NaHCO}_3$  reduced the dissolved cobalt by more than 50% but not to below the GA GWPS. Total lithium was not detected and dissolved lithium was low. Only the ZVI treatments seemed to impact the dissolved selenium and then by only 25 to 35% reductions with no treatment reaching 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. Compounds highlighted in yellow were reduced by more than 50%. Lithium was not detected in the AP-2 and 3/4 DGWC-20 IC groundwater; the percent removals highlighted in gray were based upon the dissolved lithium detection limit in the IC samples.



**Arsenic.** Dissolved As was not detected in AP-2 and 3/4 well DGWC-48. Dissolved As in well DGWC-20 was reduced to below the GA GWPS in all potassium and sodium bicarbonate treatments.

**Beryllium.** In the AP-2 and 3/4 DGWC-48 and 20 groundwaters, all potassium and sodium bicarbonate levels reduced dissolved Be to below the GA GWPS but the ZVI treatments did not.

**Cobalt.** The GA GWPS for cobalt is 0.032 mg/L. No treatment reduced the dissolved cobalt to below the GA GWPS in either the AP234 DGWC-48 or DGWC-20 groundwaters.

**Lithium.** None of the treatments were effective against dissolved lithium in the AP-2 and 3/4 DGWC-48 groundwater. There were only trace levels of dissolved lithium in the AP-2 and 3/4 DGWC-20 groundwater.

**Selenium.** Selenium was not detected in either the AP-2 and 3/4 DGWC-48 or DGWC-20 initial characterization samples. These groundwaters were spiked with a mixture of sodium selenite ( $\text{Se}^{4+}$ ) and sodium selenate ( $\text{Se}^{6+}$ ) to concentrations of 0.32 to 0.40. mg/L. None of the treatments reduced dissolved Se to below the GA GWPS. Only the highest (1.5 g/L) ZVI reduced dissolved Se from the Control 0 by more than 50% in the AP-2 and 3/4 DGWC-48 groundwater and no treatment reached the 50% threshold in the AP-2 and 3/4 DGWC-20 groundwater.

**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 and reduce cobalt. Lithium was not effectively treated in the AP-2 and 3/4 DGWC-48 groundwaters. Only the highest dosage of ZVI appeared to reduce selenium by more than 50% in one of the two groundwaters with selenium and no treatment reached the GA GWPS of 0.050 mg/L.

Please let me know if you have any questions about this final report.

Sincerely,  
**TERRA SYSTEMS, INC.**

A handwritten signature in black ink that reads "Michael D. Lee, Ph.D." The signature is written in a cursive style.

Michael D. Lee, Ph.D.  
Vice-President Research and Development

**Table 1**  
**Estimated Sample Volumes and Preservatives**

<b>Analysis</b>	<b>Matrix</b>	<b>Volume mL per bottle</b>	<b>Preservative</b>
Total As, Be, Co, Mo, Se, Fe, K, Mn, Mg, and Na (metals based upon contaminants at each site)	Aqueous	200	HNO <sub>3</sub>
Total Li (AP 234 only)	Aqueous	200	HNO <sub>3</sub>
Filtered As, Be, Co, Mo, and Se (metals based upon contaminants at each site)	Aqueous	200	HNO <sub>3</sub>
Filtered Li (AP 234 only)	Aqueous	200	HNO <sub>3</sub>
DOC	Aqueous	45	H <sub>3</sub> PO <sub>4</sub>
Sulfate	Aqueous	50	None
<b>Total</b>		895	

**Table 2**  
**Plant McDonough AP-1 Initial Characterization Field and Hach Parameters**

Field Parameters			AP-1 DGWC-69	AP-1 DGWC-68A	AP-1 DGWC-40
Well		GA GWPS			
pH	SU		7.3	6.3	
ORP	mV		167	224	226
DO	mg/L		9.8	10.8	5.5
TSS	mg/L		8.4	13.8	0.8
Bicarbonate Alkalinity as CaCO3	mg/L		60	200	5
Hardness as CaCO3	mg/L		40	120	240
Ferrous Iron	mg/L		0.01	0.01	0.28
Sulfide	mg/L		0	0	0
Sodium Hydroxide Titrations					
g/L NaHCO3	pH				
0			6.4	6.8	4.8
1			7.8	7.5	6.9
2			8.1	7.8	7.3
5			8.2	8.1	7.7
10			8.3	8.2	8.0
Potassium Hydroxide Titrations					
g/L KHCO3					
0			7.1	6.6	4.8
1			8.2	7.2	6.9
2			8.4	7.6	7.2
5			8.4	8.0	7.7
10			8.4	8.2	7.9
Sulfate	mg/L		6	78	190
Dissolved Organic Carbon	mg/L		1.5	1.1	<0.5
Total Arsenic	mg/L	0.010	<b>0.022</b>	<0.00068	
Dissolved Arsenic	mg/L	0.010	<b>0.020</b>	<0.00068	
Total Cobalt	mg/L	0.032			<b>0.039</b>
Dissolved Cobalt	mg/L	0.032			<b>0.038</b>
Total Molybdenum	mg/L	0.10	0.0048	<b>0.22</b>	
Dissolved Molybdenum	mg/L	0.10	0.0058	<b>0.20</b>	
Total Iron	mg/L		0.13	0.049 J	0.039 J
Total Magnesium	mg/L		2.3	18	19
Total Manganese	mg/L		0.027	0.096	3.4
Total Potassium	mg/L		2.4	3.8	6.1
Total Sodium	mg/L		9.5	11	19

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	1 g/L CaO	2 g/L CaO	5 g/L CaO	0.5 g/L Fe2O3	1.0 g/L Fe2O3	2.0 g/L Fe2O3	0.5 g/L FeS	1.0 g/L FeS	2.0 g/L FeS
Day				0	0	0	0	0	0	0	0	0	0	0	0	0
pH	SU			6.6	7.7	8.3	8.5	12.2	12.2	12.0	7.8	7.9	7.1	7.0	6.7	6.9
Day				7	7	7	7	7	7	7	7	7	7	7	7	7
pH	SU		7.3	6.8	7.8	8.1	8.4	11.9	12.0	12.1	8.7	7.7	7.1	6.8	6.5	6.2
ORP	mV		167	191	200	200	206	-76	-75	-60	168	214	233	247	214	108
DO	mg/L		9.8	7.1	7.0	5.7	6.4	7.7	6.6	5.4	6.9	8.0	6.9	4.9	5.2	4.4
TSS	mg/L		8.4	0	1.7	286	12	330	712	2673	265	397	945	234	763	1415
Phenolphthalein Alkalinity as CaCO3	mg/L							1180	9440	11800						
Bicarbonate Alkalinity as CaCO3	mg/L		60	35	1180	2360	4720	13580	50600	<5900	40	200	120	50	60	40
Hardness as CaCO3	mg/L		40	40	40	40	40	200	1480	1820	60	80	60	60	40	40
Ferrous Iron	mg/L		0.01	<0.01	<0.01	<0.01	<0.01	0.05	0.04	<0.01	<0.02	<0.05	<0.05	<0.02	0.35	0.90
Sulfide	mg/L		0	0.03	0.03	0.03	0.05	0.03	0.01	0.06	0.04	0.05	0.02	0.12	0.35	0.15
ELLE Results																
Sulfate	mg/L		6	8.4	9.6	16	18	8.6	16	<15	9.0	9.4	10	11	14	25
Dissolved Organic Carbon	mg/L		1.5	0.68	1.4	2.1	4.9	2.6	0.73	0.79	0.66	1.3	0.93	1.2	0.88	1.4
Total Arsenic	mg/L	0.010	0.022	0.023	0.024	0.025	0.021	0.018	0.023	0.016	0.020	0.023	0.021	0.013	0.0065	0.0086
Dissolved Arsenic	mg/L	0.010	0.020	0.019	0.021	0.024	0.023	<0.00070	<0.00070	<0.00070	<0.00070	0.0014	<0.00070	0.0018	0.00074	0.0010
Total Molybdenum	mg/L	0.10	0.0048	0.0050	0.0050	0.0053	0.0051	0.0053	0.0051	0.0054	0.0080	0.0096	0.0092	0.0043	0.0035	0.0034
Dissolved Molybdenum	mg/L	0.10	0.0058	0.0050	0.0049	0.0050	0.0049	0.0057	0.0047	0.0040	0.00025	0.0013	0.00017	0.0045	0.0035	0.0024
Total Iron	mg/L		0.13	<0.020	0.070	0.052	0.055	0.41	0.83	1.2	190	280	440	16	18	180
Total Magnesium	mg/L		2.3	2.1	2.2	2.2	2.1	3.4	6.3	12	2.2	2.4	2.3	2.2	2.1	2.8
Total Manganese	mg/L		0.027	0.0092	0.049	0.049	0.073	0.087	0.047	0.084	0.11	0.14	0.20	0.11	0.097	0.23
Total Potassium	mg/L		2.4	2.5	740	2000	3800	3.7	3.7	3.9	4.4	2.6	2.6	2.7	2.2	2.3
Total Sodium	mg/L		9.5	9.1	12	15	19	12	12	10	9.4	9.9	15	11	9.1	11

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	1 g/L CaO	2 g/L CaO	5 g/L CaO	0.5 g/L Fe2O3	1.0 g/L Fe2O3	2.0 g/L Fe2O3	0.5 g/L FeS	1.0 g/L FeS	2.0 g/L FeS
Day				0	0	0	0	0	0	0	0	0	0	0	0	0
pH	SU			6.6	7.7	8.3	8.5	12.2	12.2	12.0	7.8	7.9	7.1	7.0	6.7	6.9
Day				7	7	7	7	7	7	7	7	7	7	7	7	7
pH	SU		6.3	6.5	7.4	6.5	8.0	11.6	11.7	11.9	8.1	6.9	6.7	6.5	6.4	6.4
ORP	mV		224	249	240	268	251	4	-8	-38	243	258	259	277	266	215
DO	mg/L		10.8	9.1	8.4	7.7	7.9	9.0	8.6	8.2	9.1	8.5	8.6	5.8	4.2	3.5
TSS	mg/L		13.8	0.9	1.8	8.3	21	694	758	2530	133	357	236	152	388	248
Phenolphthalein Alkalinity as CaCO3	mg/L							7080	4720	11800						
Bicarbonate Alkalinity as CaCO3	mg/L		200	180	940	480	4240	<2360	<4720	<11800	240	240	240	240	200	160
Hardness as CaCO3	mg/L		120	220	220	220	120	800	1660	1700	220	220	220	220	200	200
Ferrous Iron	mg/L		0.01	0.12	0.13	0.15	0.01	0.02	0.06	0.03	0.04	0.06	0.06	0.06	0.04	0.06
Sulfide	mg/L		0	0.02	0.01	0.02	<0.01	0.02	<0.01	0.04	0.03	<0.01	<0.01	0.02	0.01	0.10
ELLE Results																
Sulfate	mg/L		78	39	40	37	49	34	34	33	38	38	40	40	45	54
Dissolved Organic Carbon	mg/L		1.1	0.94	1.2	0.89	7.8	1.2	0.82	1.0	0.80	0.92	0.77	0.88	0.78	0.83
Total Arsenic	mg/L	0.010	<0.00068	<0.00068	<0.00068	<0.00068	<0.00068	<0.00068	<0.00068	0.0012	0.0013	0.0024	0.0023	<0.00068	<0.00068	<0.00068
Dissolved Arsenic	mg/L	0.010	<0.00068	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070
Total Molybdenum	mg/L	0.10	0.0048	0.21	0.21	0.21	0.19	0.19	0.20	0.19	0.12	0.099	0.026	0.17	0.12	0.088
Dissolved Molybdenum	mg/L	0.10	0.0058	0.21	0.20	0.20	0.20	0.19	0.18	0.17	0.11	0.079	0.031	0.17	0.12	0.097
Total Iron	mg/L		0.13	0.041	0.090	0.14	0.22	0.20	0.59	1.6	44	110	78	44	86	680
Total Magnesium	mg/L		2.3	18	17	18	18	10	21	30	19	19	19	19	19	20
Total Manganese	mg/L		0.027	0.083	0.084	0.088	0.039	0.055	0.11	0.17	0.10	0.12	0.10	0.18	0.25	0.66
Total Potassium	mg/L		2.4	4.0	810	4.2	3800	4.7	3.8	5.1	4.3	4.2	4.0	3.9	4.0	4.0
Total Sodium	mg/L		9.5	9.9	11	10	19	9.1	17	10	10	10	9.9	9.7	9.7	9.6

0.010 GA GWPS = Georgia Groundwater Performance Standard

0.039

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J value. Compound detected above method detection limit but below method calibration limit.

Compound detected in blank

**Table 5**  
**AP-1 DGWC-40 Treatability Results**

		GA GWPS	IC	Control	1 g/L KHCO <sub>3</sub>	2 g/L KHCO <sub>3</sub>	5 g/L KHCO <sub>3</sub>	10 g/L KHCO <sub>3</sub>	1 g/L NaHCO <sub>3</sub>	2 g/L NaHCO <sub>3</sub>	5 g/L NaHCO <sub>3</sub>	10 g/L NaHCO <sub>3</sub>	0.5 g/L ZVI	1.0 g/L ZVI	1.5 g/L ZVI
Day				0	0	0	0	0	0	0	0	0	0	0	0
pH	SU			4.8	6.9	7.2	7.7	8.1	6.8	6.6	7.2	8.0	5.6	6.4	5.1
Day				7	7	7	7	7	7	7	7	7	7	7	7
pH	SU		4.6	4.6	6.5	7.1	7.7	8.0	6.3	7.7	7.3	7.9	6.1	5.7	6.0
ORP	mV		226	256	239	230	230	227	183	164	185	175	241	147	-335
DO	mg/L		5.5	4.9	4.2	4.9	4.8	4.8	5.0	5.3	4.9	4.5	5.4	4.3	1.4
TSS	mg/L		0.8	2.8	1.3	6.2	7.5	4.1	0	3.6	4.2	8.2	17	59	102
Bicarbonate Alkalinity as CaCO <sub>3</sub>	mg/L		5	0	420	600	1900	4180	640	2440	1140	4940	5	15	35
Hardness as CaCO <sub>3</sub>	mg/L		240	240	200	200	220	200	200	200	200	180	200	220	200
Ferrous Iron	mg/L		0.28	0.14	0.1	<0.01	0.05	0.07	0.08	0.04	<0.01	0.08	0.11	1.43	9.0
Sulfide	mg/L		0	0.02	0.05	0.05	0.05	0.15	0.03	0.07	0.05	0.17	0.05	0.05	0.05
ELLE Results															
Sulfate	mg/L		190	210	210	210	210	210	220	220	210	230	210	220	210
DOC	mg/L		<0.5	<0.5	2.1	0.96	1.3	3.2	0.9	1.7	1.0	1.9	0.52	0.56	<0.5
Total Cobalt	mg/L	0.032	0.039	0.039	0.038	0.042	0.039	0.039	0.039	0.040	0.039	0.038	0.044	0.040	0.035
Dissolved Cobalt	mg/L	0.032	0.038	0.042	0.037	0.038	0.037	0.036	0.037	0.039	0.037	0.034	0.038	0.037	0.025
Total Iron	mg/L		0.039	<0.023	0.2	0.096	0.086	0.25	0.14	0.059	0.15	0.44	20	54	100
Total Magnesium	mg/L		19	19	19	19	20	18	19	20	19	19	20	18	18
Total Manganese	mg/L		3.4	3.5	3.4	3.8	3.6	3.4	3.4	3.3	3.5	3.1	4	3.6	3.5
Total Potassium	mg/L		6.1	6.0	350	710	1900	3700	5.9	8.0	8.2	1900	6.4	6.2	7.3
Total Sodium	mg/L		19	20	22	21	26	28	250	1400	590	2900	20	21	19

0.010 GA GWPS = Georgia  
Groundwater Performance Standard

28 Compound detected in blank

**Table 6**  
**AP-1 Percent Removal from Initial Characterization for Dissolved Metals**

Well	Dis Metal	GA GWPS	IC/Con 0 Conc mg/L	% Rem from IC	Control	2 g/L KHCO3	5 g/L KHCO3	10 g/L KHCO3	1 g/L CaO	2 g/L CaO	5 g/L CaO	0.5 g/L Fe2O3	1.0 g/L Fe2O3	2.0 g/L Fe2O3	0.5 g/L FeS	1.0 g/L FeS	2.0 g/L FeS
DGWC-69	As	0.010	0.020	% Rem from IC	5.0	-5.0	-20.0	-15.0	>96.5	>96.5	>96.5	>96.5	93.0	>96.5	91.0	96.3	95
	Mo	0.10	0.0058	% Rem from IC	13.8	15.5	13.8	15.5	1.7	19.0	31.0	95.7	77.6	97.1	22.4	39.7	58.6
DGWC-68A	As	0.010	<0.00068	% Rem from IC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Mo	0.10	0.0058/0.21	% Rem from Con 0	0.0	4.8	4.8	4.8	9.5	14.3	19.0	47.6	62.4	85.2	19.0	42.9	53.8
Well	Dis Metal	GA GWPS	IC/Con 0 Conc mg/L	% Rem from IC	Control	1 g/L KHCO3	2 g/L KHCO3	5 g/L KHCO3	10 g/L KHCO3	1 g/L NaHCO3	2 g/L NaHCO3	5 g/L NaHCO3	10 g/L NaHCO3	0.5 g/L ZVI	1.0 g/L ZVI	1.5 g/L ZVI	
DGWC-40	Co	0.032	0.038	% Rem from IC	-10.5	2.6	0.0	2.6	5.3	2.6	-2.6	2.6	10.5	0.0	2.6	34.2	

>96.5 Dissolved metal reduced to below GA GWPS  
95.7 Dissolved metal reduced by more than 50%



**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
pH	SU		4.0	4.4
ORP	mV		388	423
DO	mg/L		11.2	9.6
TSS	mg/L		0	6.6
Bicarbonate Alkalinity as CaCO3	mg/L		0	<5
Hardness as CaCO3	mg/L		20	0
Ferrous Iron	mg/L		2.52	0.07
Sulfide	mg/L		0	0
Sodium Hydroxide Titrations				
g/L NaHCO3	pH			
	0		4.5	5.0
	1		7.5	7.3
	2		7.8	7.7
	5		8.1	8.0
	10		8.2	8.1
Potassium Hydroxide Titrations				
g/L KHCO3				
	0		4.0	4.5
	1		7.1	7.0
	2		7.6	7.4
	5		8.0	7.9
	10		8.2	8.1
Sulfate	mg/L		520	490
Dissolved Organic Carbon	mg/L		0.97 J	0.71 J
Total Arsenic	mg/L	0.010	<0.00068	<b>0.014</b>
Dissolved Arsenic	mg/L	0.010	<0.00068	<b>0.016</b>
Total Beryllium	mg/L	0.004	<b>0.0073</b>	<b>0.0079</b>
Dissolved Beryllium	mg/L	0.004	<b>0.0083</b>	<b>0.0086</b>
Total Cobalt	mg/L	0.032	<b>0.35</b>	<b>1.00</b>
Dissolved Cobalt	mg/L	0.032	<b>0.33</b>	<b>0.96</b>
Total Lithium	mg/L	0.040	<b>0.11</b>	<0.055
Dissolved Lithium	mg/L	0.040	<b>0.10</b>	<0.055
Total Selenium	mg/L	0.050	<0.00028	<0.00028
Dissolved Selenium	mg/L	0.050	<0.00028	<0.00028
Total Iron	mg/L		3.9	0.12
Total Magnesium	mg/L		16	26
Total Manganese	mg/L		13	42
Total Potassium	mg/L		14	14
Total Sodium	mg/L		23	24

0.010 GA GWPS = Georgia Groundwater Performance Standard

**Table 8**  
**AP-2 and 3/4 DGWC-48 Treatability Results**

		GA GWPS	IC	Control	1 g/L KHCO3	2 g/L KHCO3	5 g/L KHCO3	10 g/L KHCO3	1 g/L NaHCO3	2 g/L NaHCO3	5 g/L NaHCO3	10 g/L NaHCO3	0.5 g/L ZVI	1.0 g/L ZVI	1.5 g/L ZVI
Day				0	0	0	0	0	0	0	0	0	0	0	0
pH	SU			4.2	6.9	7.3	7.8	8.1	7.1	7.4	7.8	8.0	5.6	6.5	5.4
Day				7	7	7	7	7	7	7	7	7	7	7	7
pH	SU		4.0	5.8	6.9	7.3	7.8	8.0	7.2	7.4	7.7	7.9	6.4	5.1	5
ORP	mV		388	351	247	237	213	210	192	166	160	165	160	112	59
DO	mg/L		11.2	8.8	8.2	8.3	7.5	8.2	8.8	7.4	8.5	7.9	5.5	7.4	3.4
TSS	mg/L		0	97	12	13	12	118	16	11	27	120	22	67	150
Bicarbonate Alkalinity as CaCO3	mg/L		0	5	480	940	2120	4340	600	1180	2760	5300	10	5	5
Hardness as CaCO3	mg/L		20	<20	<20	<20	160	220	<20	<20	220	110	20	<20	220
Ferrous Iron	mg/L		2.52	0.32	0.12	0.04	<0.02	0.02	0.04	<0.02	0.02	0.10	0.15	<0.10	0.75
Sulfide	mg/L		0	0.01	0.04	0.05	0.03	0.03	0.04	0.07	0.02	0.02	0.04	0.06	0.09
ELLE Results															
Sulfate	mg/L		520	380	350	350	360	380	350	360	340	330	400	400	370
DOC	mg/L		0.97	1.1	1.1	1.4	1.8	9.0	1.2	1.5	2.4	11	0.81	0.85	0.79
Total Arsenic	mg/L	0.010	<0.00068	<0.00068	<0.00068	<0.00068	<0.00068	<0.00068	<0.00068	<0.00068	<0.00068	<0.0014	0.00085	0.0060	0.0011
Dissolved Arsenic	mg/L	0.010	<0.00068	<0.00070	<0.00070	<0.00070	<0.00070	<0.00068	<0.00070	<0.00070	<0.00070	<0.00068	<0.00070	<0.00070	<0.00070
Total Beryllium	mg/L	0.0040	0.0073	0.0073	0.0072	0.0065	0.0073	0.0054	0.0060	0.0064	0.0060	0.0050	0.0067	0.0064	0.0052
Dissolved Beryllium	mg/L	0.0040	0.0083	0.0071	0.0012	0.0017	0.0015	0.00085	0.0015	0.0023	0.0023	0.0026	0.0068	0.0057	0.0046
Total Cobalt	mg/L	0.032	0.35	0.34	0.33	0.33	0.32	0.24	0.33	0.33	0.27	0.17	0.33	0.34	0.28
Dissolved Cobalt	mg/L	0.032	0.33	0.35	0.33	0.33	0.32	0.12	0.32	0.31	0.20	0.14	0.31	0.34	0.28
Total Lithium	mg/L	0.040	0.11	0.11	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.12
Dissolved Lithium	mg/L	0.040	0.10	0.099	0.11	0.11	0.11	0.11	0.11	0.12	0.13	0.11	0.10	0.10	0.11
Total Selenium	mg/L	0.050	<0.00028	0.39	0.50	0.45	0.45	0.52	0.45	0.50	0.51	0.46	0.22	0.31	0.17
Dissolved Selenium	mg/L	0.050	<0.00028	0.32	0.42	0.42	0.44	0.42	0.45	0.45	0.46	0.44	0.18	0.24	0.14
Total Iron	mg/L		3.9	0.43	1.5	0.84	1.2	0.83	0.64	0.87	0.72	0.44	11	120	19
Total Magnesium	mg/L		16	16	15	15	15	15	15	15	15	15	16	16	15
Total Manganese	mg/L		13	13	12	12	12	8.7	12	12	8.2	5.3	14	13	13
Total Potassium	mg/L		14	14	370	760	1900	4600	16	15	14	17	14	14	13
Total Sodium	mg/L		23	23	22	24	27	32	280	560	1200	3200	23	23	21

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 9**  
**AP-2 and 3/4 DGWC-20 Treatability Results**

		GA GWPS	IC	Control	1 g/L KHCO3	2 g/L KHCO3	5 g/L KHCO3	10 g/L KHCO3	1 g/L NaHCO3	2 g/L NaHCO3	5 g/L NaHCO3	10 g/L NaHCO3	0.5 g/L ZVI	1.0 g/L ZVI	1.5 g/L ZVI
Day				0	0	0	0	0	0	0	0	0	0	0	0
pH	SU			4.5	6.8	7.3	7.8	8.0	7.7	7.3	7.7	7.9	6.4	6.3	5.2
Day				7	7	7	7	7	7	7	7	7	7	7	7
pH	SU		4.4	5.3	6.7	7.2	7.4	7.7	6.9	7.2	7.4	7.6	6.2	4.7	4.3
ORP	mV		423	297	290	280	278	269	222	200	205	207	164	163	185
DO	mg/L		9.6	7.8	7.2	7.3	7.2	6.9	7.0	7.1	6.7	6.8	7.5	7.3	6.8
TSS	mg/L		6.6	2.6	11	29	94	243	12	5.2	384	808	74	116	103
Bicarbonate Alkalinity as CaCO3	mg/L		<5	10	400	820	2120	4720	590	940	4720	5900	5	5	5
Hardness as CaCO3	mg/L		<20	<20	<20	<20	220	220	<20	340	460	230	<20	<20	<20
Ferrous Iron	mg/L		0.07	0.14	0.16	0.13	0.07	0.04	0.03	0.05	0.09	0.09	0.12	0.08	0.45
Sulfide	mg/L		0	0	0	0	0	0	0.01	0.02	0.01	0.02	0	0	0.01
ELLE Results															
Sulfate	mg/L		490	480	500	510	510	580	500	510	520	600	510	500	500
Dissolved Organic Carbon	mg/L		0.71	0.50	1.3	1.4	2.0	4.8	1.3	1.5	3.2	10	0.91	0.81	0.71
Total Arsenic	mg/L	0.010	0.014	0.016	0.023	<0.00068	0.022	0.017	0.021	0.036	0.014	0.0080	0.026	0.027	0.032
Dissolved Arsenic	mg/L	0.010	0.016	0.018	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	0.0011	0.00077	0.019	0.018	0.017
Total Beryllium	mg/L	0.004	0.0079	0.0071	0.0070	<0.00012	0.0073	0.0071	0.0064	0.011	0.0048	0.0041	0.0070	0.0070	0.0065
Dissolved Beryllium	mg/L	0.004	0.0086	0.0080	0.00053	0.00037	0.00026	0.00022	0.00045	0.00022	0.00045	0.00025	0.0072	0.0099	0.0068
Total Cobalt	mg/L	0.032	1.00	1.0	1.0	<0.00016	0.69	0.69	1.0	1.1	0.51	0.43	1.0	1.0	0.98
Dissolved Cobalt	mg/L	0.032	0.96	1.1	0.96	0.90	0.44	0.24	0.92	0.90	0.38	0.23	1.1	1.0	1.0
Total Lithium	mg/L	0.040	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055	<0.055
Dissolved Lithium	mg/L	0.040	<0.055	<0.057	0.015	0.015	0.016	0.023	0.014	0.017	0.018	0.019	<0.057	<0.057	<0.057
Total Selenium	mg/L	0.050	<0.00028	0.40	0.45	<0.00028	0.45	0.44	0.47	0.50	0.44	0.46	0.30	0.29	0.26
Dissolved Selenium	mg/L	0.050	<0.00028	0.38	0.45	0.46	0.40	0.45	0.45	0.49	0.45	0.47	0.27	0.24	0.22
Total Iron	mg/L		0.12	0.082	0.19	<0.020	0.14	0.21	0.16	0.31	0.12	0.087	43	90	200
Total Magnesium	mg/L		26	29	25	<0.016	27	25	25	26	25	26	25	26	25
Total Manganese	mg/L		42	38	37	<0.00095	18	26	37	38	9.8	12	37	37	37
Total Potassium	mg/L		14	15	420	<0.065	2000	3800	16	15	16	19	14	14	14
Total Sodium	mg/L		24	24	23	<0.090	26	33	310	600	1500	2700	22	22	22

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 10**  
**AP-2 and 3/4 Percent Removal from Initial Characterization for Dissolved Metals**

		GA GWPS	IC (mg/L)														
DGWC-48	As	0.010	<0.00068	% Rem from IC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Be	0.0040	<b>0.0083</b>	% Rem from IC	14.5	85.5	79.5	81.9	89.8	81.9	72.3	72.3	68.7	18.1	31.3	44.6	
	Co	0.032	0.33	% Rem from IC	-6.1	0.0	0.0	3.0	63.6	3.0	6.1	39.4	57.6	6.1	-3.0	15.2	
	Li	0.040	0.10	% Rem from IC	1.0	-10.0	-10.0	-10.0	-10.0	-10.0	-20.0	-30.0	-10.0	0.0	0.0	-10.0	
	Se	0.050	<0.00028/ <b>0.32</b>	% Rem from Con 0	0.0	-31.3	-31.3	-37.5	-31.3	-40.6	-40.6	-43.8	-37.5	43.8	25.0	56.3	
DGWC-20	As	0.010	<b>0.016</b>	% Rem from IC	-12.5	>95.6	>95.6	>95.6	>95.6	>95.6	>95.6	93.1	95.2	-18.8	-12.5	-6.3	
	Be	0.0040	<b>0.0086</b>	% Rem from IC	7.0	93.8	95.7	97.0	97.4	94.8	97.4	94.8	97.1	16.3	-15.1	20.9	
	Co	0.032	0.96	% Rem from IC	-14.6	0.0	6.2	54.2	75.0	4.2	6.2	60.4	76.0	-14.6	-4.2	-4.2	
	Li	0.040	<0.055	% Rem from IC		72.7	72.7	70.9	58.2	74.5	69.1	67.3	65.5				
	Se	0.050	<0.00028/ <b>0.38</b>	% Rem from Con 0	0.0	-18.4	-21.1	-5.3	-18.4	-18.4	-28.9	-18.4	-23.7	28.9	36.8	42.1	

NA	Not applicable
>96.5	Dissolved metal reduced to below GA GWPS
95.7	Dissolved metal reduced by more than 50%
72.7	Percent removal from detection method limit



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**APPENDIX G**

# Alternate Source Demonstration for Radium



**REPORT**

# Alternate Source Demonstration for Combined Radium *Plant McDonough-Atkinson Ash Pond 2 and 3/4*

Submitted to:



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## Appendix

APPENDIX A:	SOIL BORING & WELL CONSTRUCTION LOGS
APPENDIX B:	ANALYTICAL LABORATORY REPORTS
APPENDIX C:	GROUNDWATER SAMPLING FIELD DATA SHEETS



## Certification

This *Alternate Source Demonstration for Combined Radium*, Georgia Power Company Plant McDonough-Atkinson, Ash Pond 2 and 3/4, has been prepared in compliance with applicable United States Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D; published in 80 FR 21302-21501, April 17, 2015) and Georgia Environmental Protection Division Rule 391-3-4-.10(6)(a-c) under the direction of a licensed professional engineer with Golder Associates 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 Alternate Source Demonstration for Radium 226+228 has been prepared to meet the requirements of 40 CFR §257.95(g)(3)(ii) and Georgia Environmental Protection Division Rule 391-3-4-.10(6)(a-c).

### Golder Associates USA Inc.



P.J. Nolan, PhD  
*Lead Geochemist*



Dawn L. Prell, CPG  
*Senior Hydrogeologist*

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 Alternate Source Demonstration, Georgia Power Company Plant McDonough-Atkinson, located at 5551 S. Cobb Drive, Smyrna, Georgia, has been prepared to meet the requirements of 40 CFR §257.95(g)(3)(ii).



Todd Rees, PhD, PE  
Georgia Registered Professional Engineer No. 047845

## 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; published in 80 FR 21302-21501, April 17, 2015) (CCR Rule or The Rule), this Alternate Source Demonstration (ASD), Plant McDonough Ash Pond 2 and Ash Pond 3/4 (AP-2 and 3/4) has been prepared to document an alternate source for Statistically Significant Levels (SSLs) of combined radium (radium 226 + 228) identified at Georgia Power Company's Plant McDonough AP-2 and 3/4 (Site) during assessment monitoring. An SSL for combined radium at assessment monitoring well B-104D was reported in the recent (2021) Semi-Annual Monitoring and Corrective Action Report submitted to Georgia (GA) Environmental Protection Division (EPD) on February 28, 2022.

This document satisfies the requirements of § 257.95(g)(3)(ii) and § 391-3-4-.14(23)(c) which allows the owner or operator within 90 days to demonstrate that a source other than the CCR Unit has caused an SSL. In addition to the SSL at B-104D, reported concentrations at B-109D, B-111D and B-115D for combined radium are greater than the GWPS; however, an SSL has not yet been identified since the wells have not yet been sampled four times.

This ASD presents the results of an investigation performed to evaluate the presence of naturally occurring radionuclides, present throughout the region and sitewide in the rock materials underlying AP-1 and AP-2, 3/4 at Plant McDonough. Multiple lines of evidence supporting this demonstration are 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.

## 2.0 SITE DESCRIPTION AND BACKGROUND

Plant McDonough, a natural gas power plant converted in 2012 from a coal-fired power plant, is located in southeast Cobb County, Georgia near the Fulton County line, and is owned and operated by the Georgia Power Company. The Plant is located approximately 7 miles northwest of Atlanta, Georgia, and is surrounded primarily by industrial and residential land use. The property occupies approximately 390 acres and is bounded on the southeast by the Chattahoochee River. The Plant owns a small portion of land south of the river. Figure 1 presents the location of Plant McDonough relative to local topography and surrounding features. Figure 2 shows the location of on-site monitoring wells and piezometers. Figure 3 presents a lithological cross-section through the deeper bedrock wells.

### 2.1 Geological Setting

The Site is situated in the Piedmont province, in a regional zone of geologic deformation, referred to as the Brevard Zone, that extends from Alabama to Virginia. The plant property northwest of the faulted contact is

underlain by the Long Island Creek Gneiss, which is a medium- to coarse-grained felsic rock. Near faults and shear zones, the gneiss is locally intruded by another felsic rock, i.e., granitic pegmatites (borehole logs indicating the presence of pegmatites at the Site are presented in Appendix A). Pegmatites are coarse-grained igneous rocks formed in the late stage of magma crystallization and noted for their high textural and compositional variability and enrichment of trace elements such as uranium, thorium, rare-earth elements, etc. (Adams et al. 1980). Numerous studies (as detailed in Section 5.0) have evaluated the presence of the radionuclides radium, uranium, and thorium in aquifer solids and groundwater in principal aquifers in the US and abroad (e.g., Chapman et al. 2013; Ranger 1995; Rosson et al. 1991; Szabo et al. 2012; Stackelberg et al. 2018; Vinson et al. 2013) and specifically in Georgia, granite and gneiss aquifers in the Piedmont were identified to have the highest concentrations of naturally occurring radionuclides (Coker and Olive 1989).

Uranium and thorium are naturally occurring in the soils, rock, and groundwater of the aquifers in the U.S. at varying levels and decay to form radium (Hem 1990; Langmuir 1994; Nolan et al. 2021). Felsic rock types, i.e., rock types containing abundant silicate minerals such as feldspar and quartz, are naturally enriched in uranium and thorium, the parent elements of radium. For reference, average uranium and thorium concentrations in the earth's crust are 3 and 10 milligrams per kilogram (mg/kg). In basalt (a mafic rock) uranium and thorium average 0.6 and 2.2 mg/kg, respectively, and in granite (a felsic rock) 4.8 and 17 mg/kg, respectively (Smith and Huyck 1999). Concentrations of daughter elements such as radium show a similar distribution between the various material types.

## 2.2 Hydrogeological Setting

A regional, unconfined surficial aquifer system is present at the Site, existing within the overburden and weathered and fractured upper bedrock (i.e., 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.

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. However, deeper bedrock (i.e., approximately greater than 30 feet into the bedrock) is unweathered with few discontinuities (e.g., fractures) available to store groundwater.

## 3.0 STATISTICAL ANALYSES METHODS

The monitoring well networks at both groundwater monitoring units (AP-1, and AP-2 and 3/4) at Plant McDonough are in assessment monitoring and are currently performing an assessment of corrective measures for groundwater impacts at the site. During assessment monitoring, concentrations of Appendix IV constituents are compared to an applicable GWPS. As specified in 40 CFR §257.95(h), the GWPS is the Maximum Contaminant Level (MCL) or the background concentration for constituents for which an MCL has not been established. Because site-specific background for combined radium (5.61 pCi/L) is greater than the MCL (5 pCi/L), the GWPS at the Site is the site background of 5.61 pCi/L.

### 3.1 Statistically Significant Levels

Review of the statistical analysis results indicates that using the GWPS established according to both 40 CFR §257.95(h) and 391-3-4-.10(6)(a), an SSL for combined radium was identified at B-104D. A notice of SSL exceedances was placed in the operating record and submitted to EPD on January 31, 2022. Several additional wells summarized in Table 1 also have concentrations of combined radium above the established GWPS; however, an SSL has not been identified to date. These wells were installed for delineation of inorganic constituents and do not have sufficient data to perform statistical analyses at this time.

**Table 1. Plant McDonough Ash Pond Elevated Combined Radium Concentrations**

Appendix IV Parameter	Plant McDonough Ash Pond Monitoring Well	Result <sup>[1]</sup> (pCi/L)	GWPS (pCi/L)
Combined Radium	B-104D	9.6 - 17.0	5.61
Combined Radium	B-109D	11.8 – 12.1	5.61
Combined Radium	B-111D	4.39 - 12.3	5.61
Combined Radium	B-115D	11.9 - 14.7	5.61

[1] Between two and four samples are available for each of the identified monitoring wells. The range of concentration is given.

### 4.0 CHARACTERIZATION OF AQUIFER MATERIALS

Aquifer solids were retrieved from cores originally collected during monitoring well installation in December 2020 through April 2021. The aquifer materials were analyzed by Pace Analytical Services, LLC for radium parent elements uranium and thorium as well as radium, using EPA Method 901.1: Gamma Emitting Radionuclides in Drinking Water. The analytical results are attached as Appendix B and presented in Table 3 in Section 5.4. The isotopes for the elements tested included:

- Uranium: U-235 and U-238
- Radium: Ra-226 and Ra-228
- Thorium: Th-232 and Th-234.

### 5.0 ALTERNATE SOURCE DEMONSTRATION

Multiple lines of evidence support the conclusion that the reported concentrations of combined radium in groundwater in deep/bedrock delineation wells B-104D, B-109D, B-111D, and B-115D at the Site are not the result of a release from the CCR Unit but rather are naturally occurring due to decay of uranium and thorium from the aquifer solids (i.e., bedrock) and is regionally present. This demonstration is based on the following lines of evidence that strongly support the natural occurrence of radium in groundwater at the Site:

- 1) Groundwater samples from the shallow detection 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.
- 2) Combined radium concentrations in groundwater samples collected from the deep delineation wells have decreased since well installation.
- 3) The wells with elevated radium concentrations show no correlation with CCR indicator parameters.

- 4) Naturally occurring parent elements have been identified in bedrock samples collected from the screened intervals of the deep/bedrock delineation wells.
- 5) Radionuclides are known to be present in regional aquifer materials and regional groundwater, based on multiple sources/references.

Each of these lines of evidence is supported by geochemical characterization of aquifer solids, analysis of groundwater samples and review of published data, as discussed in detail in the sections that follow.

**1) 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.**

The combined radium concentrations in samples from shallow wells at the waste boundary located immediately adjacent to the delineation wells with elevated combined radium concentrations, range from 1.15 to 2.36 pCi/L (Table 2). For comparison, combined radium concentrations in samples from the deeper bedrock wells with SSLs and/or elevated combined radium concentrations range from 4.39 to 17.0 pCi/L (Table 1). In each case, the shallow monitoring well is screened in the uppermost unconfined aquifer, in closer proximity to the Ash Ponds, than the deeper delineation wells at which the elevated combined radium concentrations were noted. Site wide, no detection monitoring network well has reported a combined radium SSL since the start of monitoring in 2016. Only the deep vertical delineation wells screened in bedrock, which were installed to delineate constituents other than combined radium, have shown SSLs for combined radium. Additionally, the paired wells groundwater elevations reflect a vertically downward gradient (Figure 4), which indicates groundwater movement from shallow to deeper groundwater zones, further supporting that the elevated combined radium concentrations at the deep delineation wells are not a result of a release from the Ash Ponds.

**Table 2: Combined Radium Concentrations at Shallow Wells Adjacent to Deep Delineation Wells Where Elevated Combined Radium Concentrations are Noted**

Deep Well	Nearest Shallow Detection Monitoring Well	Sample Date	Combined Radium Results (pCi/L)
B-104D	DGWC-48	09/10/2021	2.21
B-109D	DGWC-2	09/09/2021	1.22U
B-111D	DGWC-5	09/10/2021	1.15
B-115D	B-57	01/15/2021	2.36

**2) Combined radium concentrations in groundwater samples collected from the deep delineation wells have decreased since well installation.**

Groundwater with a long residence time in a rock matrix can develop relatively high concentrations of radionuclides due to decay of parent elements. With continued extraction of that water, radionuclide concentrations tend to decline as the formation of the daughter elements cannot ‘keep up’ with further groundwater extraction. This is generally consistent with the elevated measurements in the first samples collected immediately after well installation, followed by a decline in concentrations upon subsequent sampling events. Combined radium concentrations at each of the four wells described above (B-104D, B-109D, B-111D, and B-115D) have exhibited considerable decline in concentration since the initial sampling (Figure 5). In the case of well B-111D, the combined radium concentration was below the GWPS for the Site during the most recent

sampling event (9/14/2021) at 4.39 pCi/L. Should the aquifer conditions change or become more stagnant, radium concentrations may gradually increase again due to the ongoing natural uranium and thorium decay. Based on this key line of evidence, the combined radium observed in groundwater at the deep delineation wells is due to residence time in the rock matrix and not due to release from the Ash Ponds.

### **3) The wells with elevated radium concentrations show no correlation with CCR indicator parameters.**

The concentrations of typical CCR associated parameters, such as boron, are low (<0.69 mg/L) in the deep delineation wells; concentrations are more than three times lower than the average concentration at shallower monitoring wells (Figure 3; Golder 2022). Historically, the deep delineation wells also have reported, on average, lower total dissolved solids (TDS) and sulfate concentrations, indicating no apparent CCR influence. Exceptions are a slightly higher TDS and sulfate concentration noted at B-104D, but like all other deep wells, groundwater in B-104D is calculated to remain undersaturated with respect to sulfate minerals such as gypsum. Well B-104D also reports lower boron and much higher combined radium concentrations as compared to the shallow adjacent well DGWC-48. Thus, the observed geochemical variability in TDS and sulfate concentrations in groundwater is related to water rock interactions in the heterogeneous subsurface lithological composition.

Since 2016, the observed groundwater pH in site-wide (shallow and deep) groundwater at Plant McDonough has ranged from 3.8 to 8.6 and the oxidation reduction potential (ORP) from -112 to +592 millivolt's (mV), respectively. Under these conditions, boron and sulfate are conservative tracers of CCR or the Ash Ponds, with very low to low partitioning coefficients of 0.0 L/kg (boron) and 0.19 to 1.3 L/kg (sulfate; depending on sorbent content; Strenge and Peterson 1989). Generally, dissolved oxygen (DO) and ORP are lower in the deep delineation wells (except DO at B-109D; however, the ORP was still reducing (-83.2 mV), and DO values at prior and subsequent sampling events were low (i.e., <0.65 mg/L), indicating a likely field measurement error during the September 2021 sampling campaign. This is further supported by the January 2022 sampling event where DO at B-109D was reported at 0.28 mg/L. Field sample forms presenting this field data are included in Appendix C.

In contrast, radium in groundwater forms a charged divalent cation ( $Ra^{+2}$ ) which has been shown to effectively adsorb on metal hydroxides at a groundwater pH range of 4 to 10 and also co-precipitate readily with minerals such as barite (Sajih et al. 2014). For a groundwater pH range of 5 to 9, the partitioning coefficient of radium is between 24.3 to 124.0 L/kg depending on sorbent content, indicating radium will not act conservatively in typical groundwater systems (Strenge and Peterson 1989). Therefore, it is geochemically improbable for radium to travel from an Ash Pond to a deep delineation well without being accompanied by the conservative CCR tracers such as boron and sulfate. It should also be noted that elevated radium levels in the deep wells due to a release from the CCR Unit are unlikely to occur without corresponding elevated levels in the adjacent shallow wells. As described above, no radium SSLs have been noted in overburden wells at the site throughout the monitoring history.

### **4) Naturally occurring parent elements have been identified in bedrock samples collected from the screened intervals of the deep/bedrock delineation wells.**

Elevated groundwater concentrations of decay products such as radium typically are related to elevated concentrations of parent elements in associated aquifer solids. Total uranium and thorium concentrations at the four deep bedrock aquifer samples taken from site range from 0.263 to 46.2 mg/kg and non-detect (<138) to 375 mg/kg, respectively (Table 3). The concentrations of uranium in two of the four samples and thorium in all four samples are well above the average crustal rock concentrations of 3 and 10 mg/kg, respectively, and also above the average concentrations in granitic rocks, which are naturally elevated in uranium (17 mg/kg) and thorium (4.8 mg/kg) relative to many other rock types, as reported in a compilation of crustal rock concentrations by Smith and

Huyck (1999). As such, the parent elements for radium are present at elevated levels in Site samples (and in the region, based on literature in line of evidence #5) relative to average concentrations for crustal and felsic rocks, demonstrating the presence of a natural source for radium at the Site.

**Table 3. Occurrence of Total Uranium, Thorium and Radium in Core Samples <sup>1</sup>**

Well ID <sup>2</sup>	Core Depth (ft)	Total Radium (mg/kg)	Total Uranium (mg/kg)	Total Thorium (mg/kg)
B-104D	56.5-57'	2.10 x10 <sup>-06</sup>	46.2	282
B-109D	92.5-93'	1.07 x10 <sup>-06</sup>	15.7	<138 <sup>3</sup>
B-111D	82-82.5'	1.30 x10 <sup>-06</sup>	0.263	375
B-115D	70.9-71.4'	1.53 x10 <sup>-06</sup>	2.92	239

<sup>1</sup>Note: Concentrations converted from activities for comparison to average abundances by rock type

<sup>2</sup>Note: Core samples collected from screened intervals at each of the identified locations

<sup>3</sup>Note: Minimum Detectable Concentration (MDC) estimated for thorium based on the activity method blank.

**5) Radionuclides are known to be present in regional aquifer materials and regional groundwater, based on multiple sources/references.**

As noted in Section 2.1, numerous studies have evaluated the presence of the radionuclides radium, uranium, and thorium in aquifer solids and groundwater in principal aquifers in the US and abroad (e.g., Chapman et al. 2013; Ranger 1995; Rosson et al. 1991; Szabo et al. 2012; Stackelberg et al. 2018; Vinson et al. 2013). Highlights of several of these papers are presented in the next paragraphs.

In Rosson et al. (1991), the authors showed evaluated radium and uranium levels in public water systems in Georgia. They concluded that the observed radium and uranium levels in public water systems were related to geologic conditions, with the highest levels occurring in groundwater from the Piedmont physiographic region. Albertson (2003) also found that out of 955 samples from public water supplies in the Piedmont, Blue Ridge, and Coastal Plains physiographic provinces, regionally, 476 (49.8%) samples had a combined radium level greater than 5 pCi/L, demonstrating widespread natural occurrence of radium in groundwater above the MCL<sup>1</sup> (Figure 6). Specifically, in Georgia, granite and gneiss aquifers in the Piedmont were identified to have the highest concentrations of naturally occurring radionuclides of any other aquifer types in the state (Coker and Olive 1989).

Radon, a gas byproduct of radium decay, is prevalent in the greater Atlanta area (Ranger 1995). Granites and faulted areas of high metamorphism produced the highest levels of radon in homes, with gneisses of granitic origin being of particular concern. This includes the Brevard Zone, the regional geologic zone in which Plant McDonough is located.

Szabo et al. (2012) concluded that radium concentrations in groundwater were controlled by the geochemical properties of the 15 major aquifer systems they studied, with highest radium levels occurring when radium adsorption was less effective. The Piedmont region was again identified as one where natural exceedances of the radium MCL occur.

<sup>1</sup> The Cobb County, Georgia, samples included in Albertson (2003) consisted of surface water samples only. As such, this study represents a regional analysis of the Piedmont, without a specific focus on Cobb County.

In summary, there is ample supporting evidence for the presence of naturally occurring parent elements in regional aquifers in the Site area, the presence of elevated levels of radium in regional groundwater, and the presence of radon, a decay product of radium. Thus, there are multiple lines of evidence for naturally-occurring radium in the regional granitic gneiss and this is also confirmed through testing of the site-specific rock formations. As such, combined radium represents a natural occurrence in the groundwater at Plant McDonough.

## 6.0 CONCLUSIONS

This ASD has been prepared pursuant to 40 CFR § 257.95(g)(3)(ii) and § 391-3-4-.10(6)(a-c), to address the SSLs of combined radium observed in monitoring well B-104D, and concentrations exceeding the MCL in wells B-109D, B-111D, and B-115D at Plant McDonough. Based on the key lines of evidence established in this ASD, the combined radium SSLs at the Site are the result of natural occurring radium in the bedrock and groundwater and not the result of a release from the Ash Pond. Lines of evidence supporting this demonstration include:

- 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 no correlation with 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.

The combined radium GWPS exceedances and elevated concentrations only occurred when deep delineation wells were screened in bedrock. Installation of these delineation wells was not conducted to investigate radium because no on-site wells, including shallow monitoring wells closer in proximity to the Ash Ponds than the deeper wells, have ever reported an SSL for combined radium. Based on the key lines of evidence presented in this ASD, the combined radium concentrations at B-104D, B-109D, B-111D, and B-115D are the result of the radionuclide-rich bedrock in which the wells are screened and not due to a release from the Ash Ponds. This demonstration represents a site-wide natural occurrence of radium and is not specific to the wells identified.

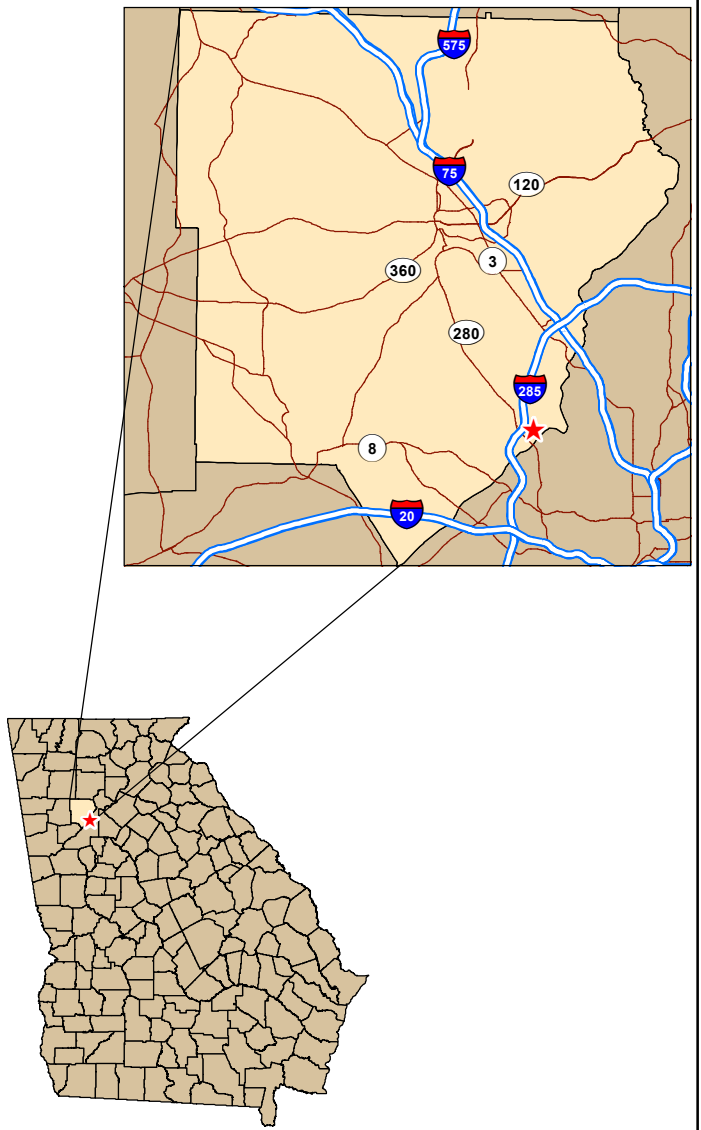
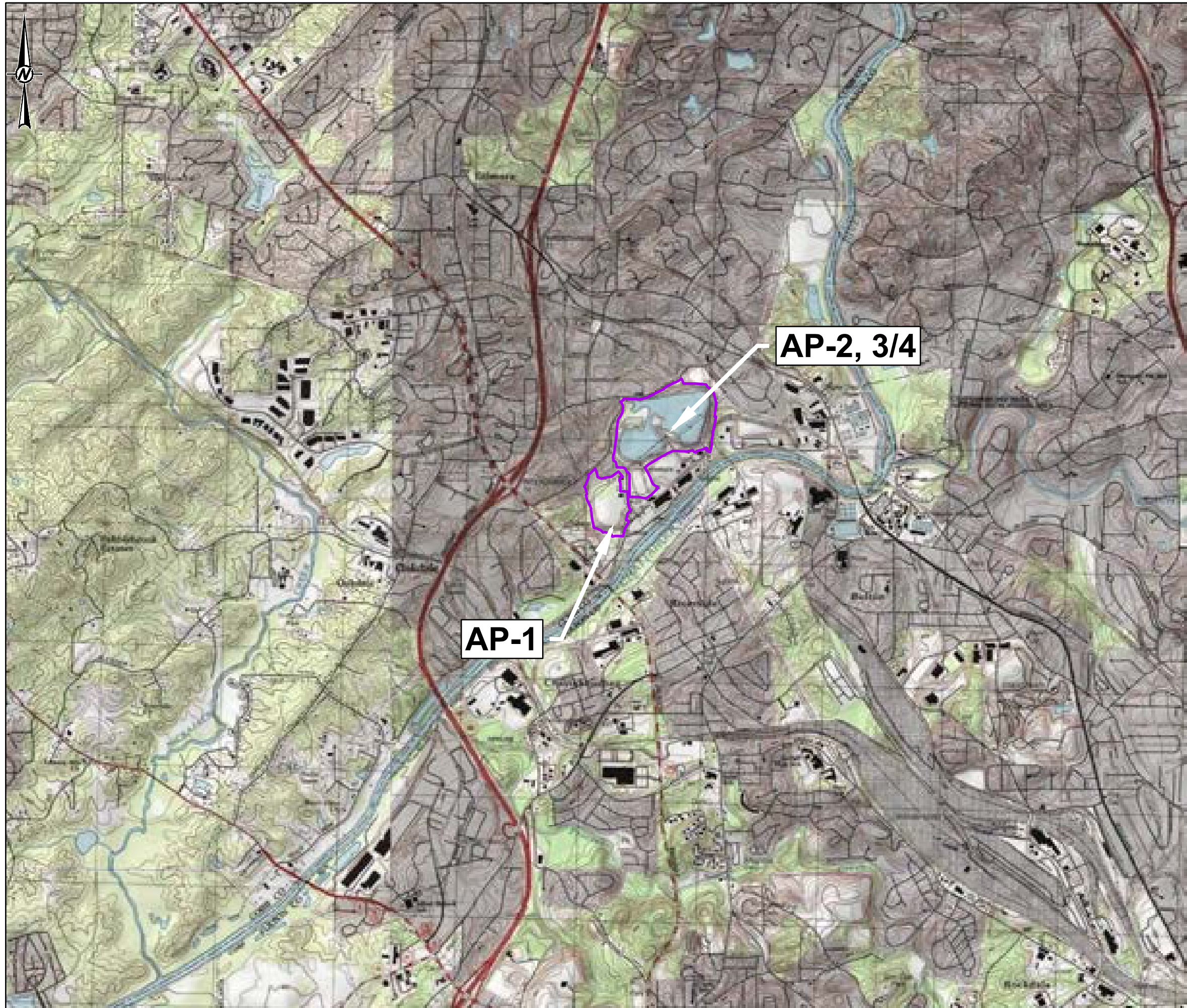


## 7.0 REFERENCES

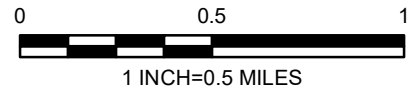
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## Figures



REFERENCE  
 SERVICE LAYER CREDITS: COPYRIGHT:© 2013 NATIONAL GEOGRAPHIC SOCIETY, I-CUBED



CLIENT  
 GEORGIA POWER COMPANY PLANT  
 MCDONOUGH-ATKINSON



PROJECT  
 ALTERNATE SOURCE DEMONSTRATION FOR COMBINED  
 RADIUM PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE  
**SITE LOCATION MAP**

CONSULTANT	YYYY-MM-DD	2022-4-26
	PREPARED	SEB
	DESIGN	SEB
	CHECKED	DP
	REVIEWED/APPROVED	RPK



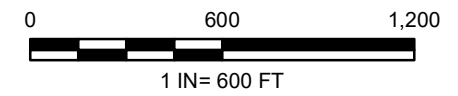
**LEGEND**

- ◆ AP-1 MONITORING WELL
- ◆ AP-2,3/4 MONITORING WELL
- ◆ UPGRADIENT WELL
- ◆ ASSESSMENT MONITORING WELLS
- ◆ PIEZOMETER
- ◆ DEWATERING WELL
- ◆ STAFF GAUGE
- PROPERTY BOUNDARY
- PERMIT BOUNDARY
- MONITORING WELLS WITH COMBINED RADIUM CONCENTRATIONS EXCEEDING THE MAXIMUM CONTAMINANT LEVEL.

**NOTES**  
 1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

**REFERENCE**

1. AERIAL IMAGE DATED NOVEMBER 2019 FROM GOOGLE EARTH AND AUGUST 04, 2021 AND OCTOBER 08, 2021 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
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.



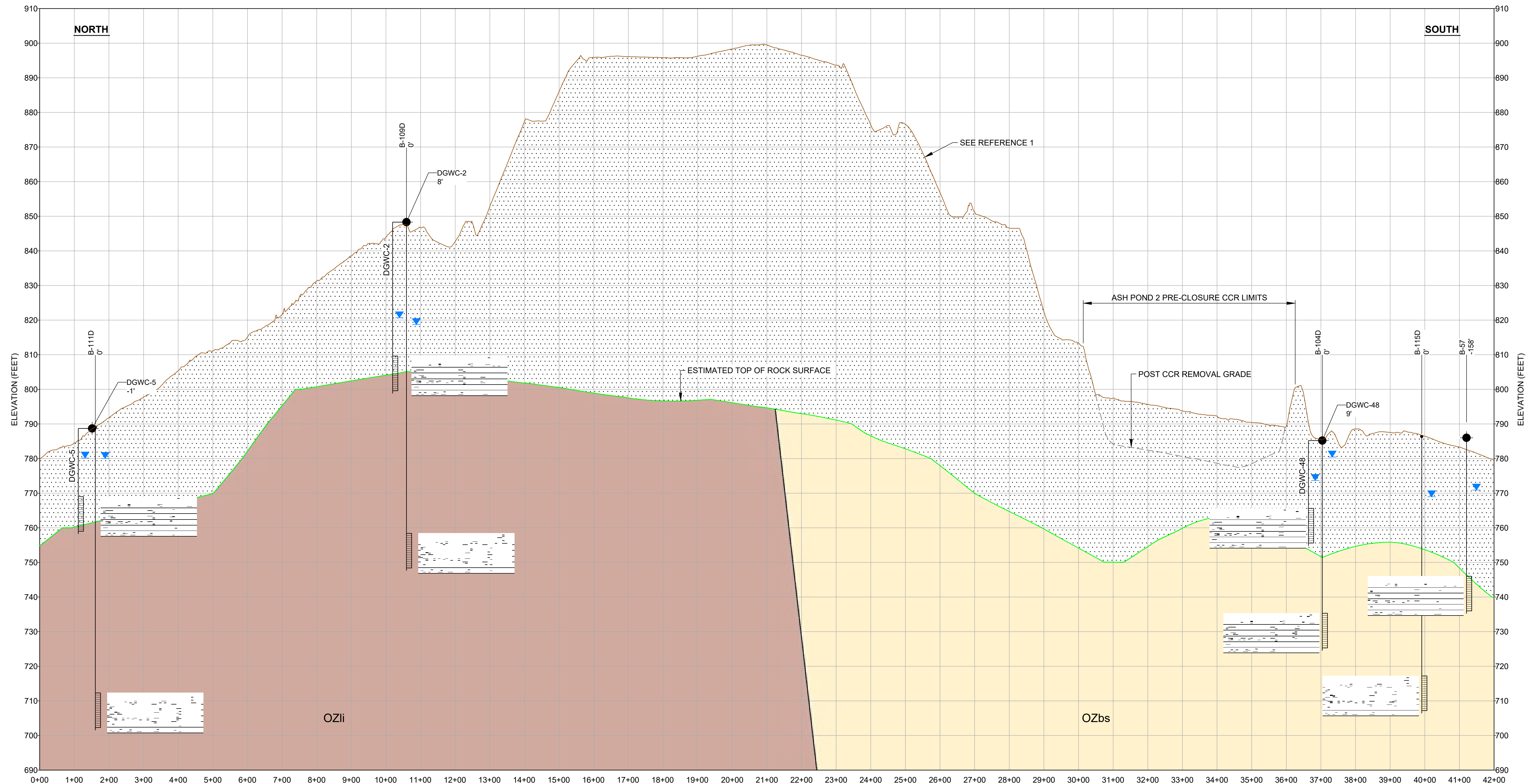
CLIENT  
 GEORGIA POWER COMPANY  
 PLANT MCDONOUGH

PROJECT  
 ALTERNATE SOURCE DEMONSTRATION FOR COMBINED RADIUM PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE  
**SITE PLAN AND WELL LOCATION MAP**

CONSULTANT	YYYY-MM-DD	2022-03-28
	PREPARED	SEB
	DESIGN	DLP
	CHECKED	DP/RPK
	REVIEWED/APPROVED	RPK

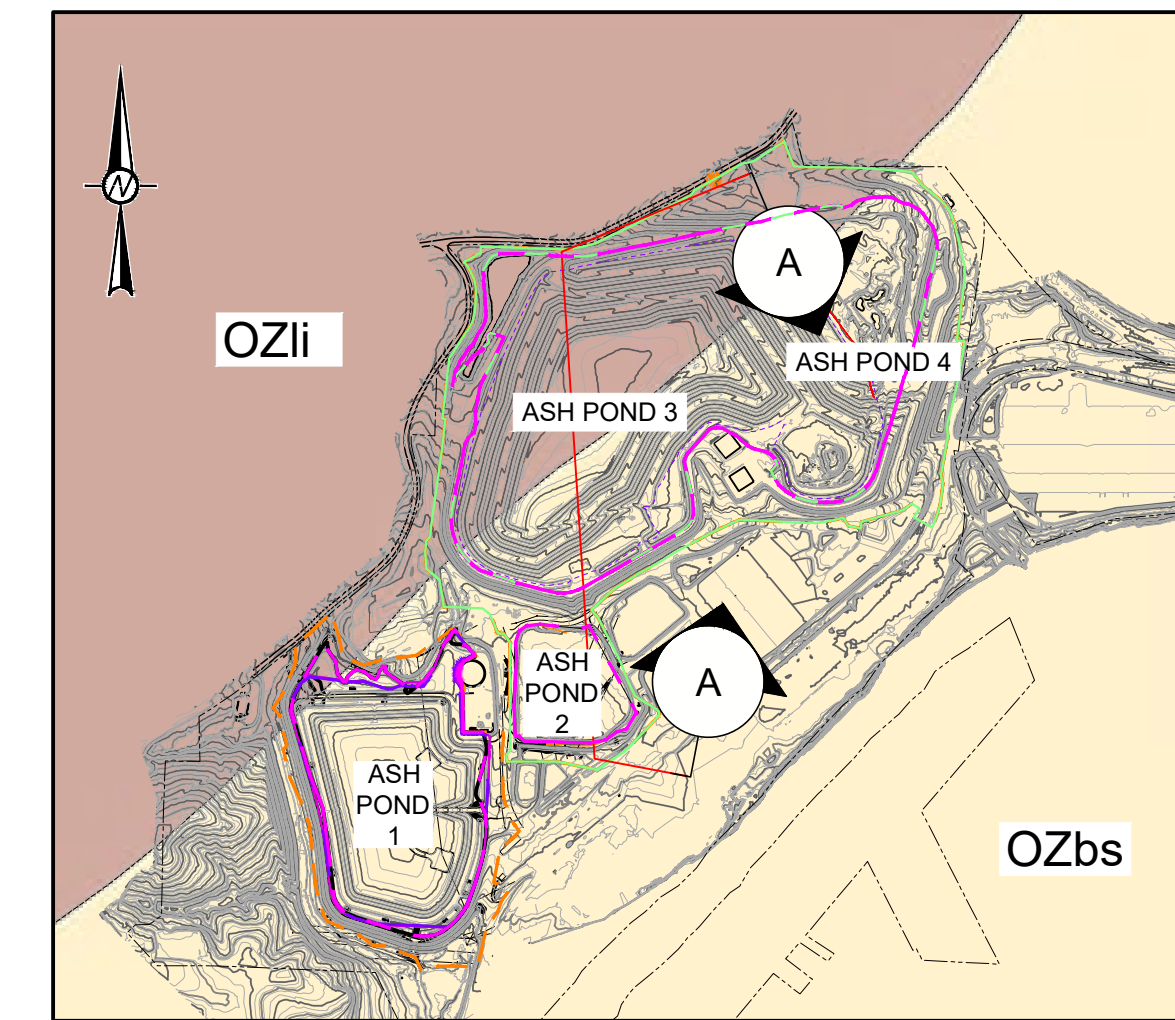
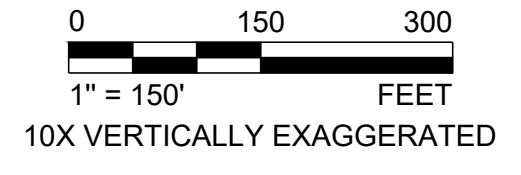
ALL MEASUREMENTS ARE APPROXIMATE. THE MEASUREMENT DOES NOT MATCH WHAT IS SHOWN. THIS SHEET HAS BEEN MODIFIED FROM ANS.B



**LEGEND**

- EXISTING GRADE (SEE REFERENCE 1)
- ESTIMATED TOP OF ROCK SURFACE
- ..... OVERBURDEN (COMPRISED OF RESIDUAL SOILS, TRANSITIONALLY WEATHERED ROCK, AND FILL)
- PHYLONITE, BUTTON SCHIST, MYLONITE, AND MYLONITIC BIOTITE GNEISS (OZbs)
- BIOTITE GNEISS, LONG ISLAND CREEK GNEISS (OZli)
- ▲ ESTIMATED GROUNDWATER SURFACE (10/27/2021)
- ▼ PREDICTED POST-CLOSURE GROUNDWATER SURFACE
- B-29 -144' BORING ID  
DISTANCE FROM CROSS-SECTION (FEET) (- REPRESENTS LEFT OF ALIGNMENT)
- GROUND SURFACE ELEVATION
- ▭ SCREEN INTERNAL

- REFERENCES**
1. THE EXISTING TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA POWER. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS JULY 2021. GEORGIA STATE PLANE WEST SURVEY FEET.
  2. BORING/WELL/PIEZOMETER LOCATIONS AND ELEVATIONS PROVIDED BY SOUTHERN COMPANY SERVICES, INC. AND 1968 LAW ENGINEERING GEOTECHNICAL INVESTIGATION REPORT.
  3. GEOLOGIC UNITS TAKEN FROM PETROLOGIC SOLUTIONS GEOLOGIC MAPPING, OCTOBER 2016.
  4. SELECT BORING/PIEZOMETER LOCATIONS AND ELEVATIONS SURVEYED AND/OR RESURVEYED BY METRO ENGINEERING & SURVEYING CO., INC., 2020 / 2021.



CLIENT  
**GEORGIA POWER COMPANY**  
PLANT MCDONOUGH

PROJECT  
**ALTERNATE SOURCE DEMONSTRATION FOR COMBINED RADIUM PLANT MCDONOUGH-ATKINSON**  
ASH POND 2 & 3/4

TITLE  
**LITHOLOGIC CROSS SECTION A-A**  
MARCH 2021 RESULTS

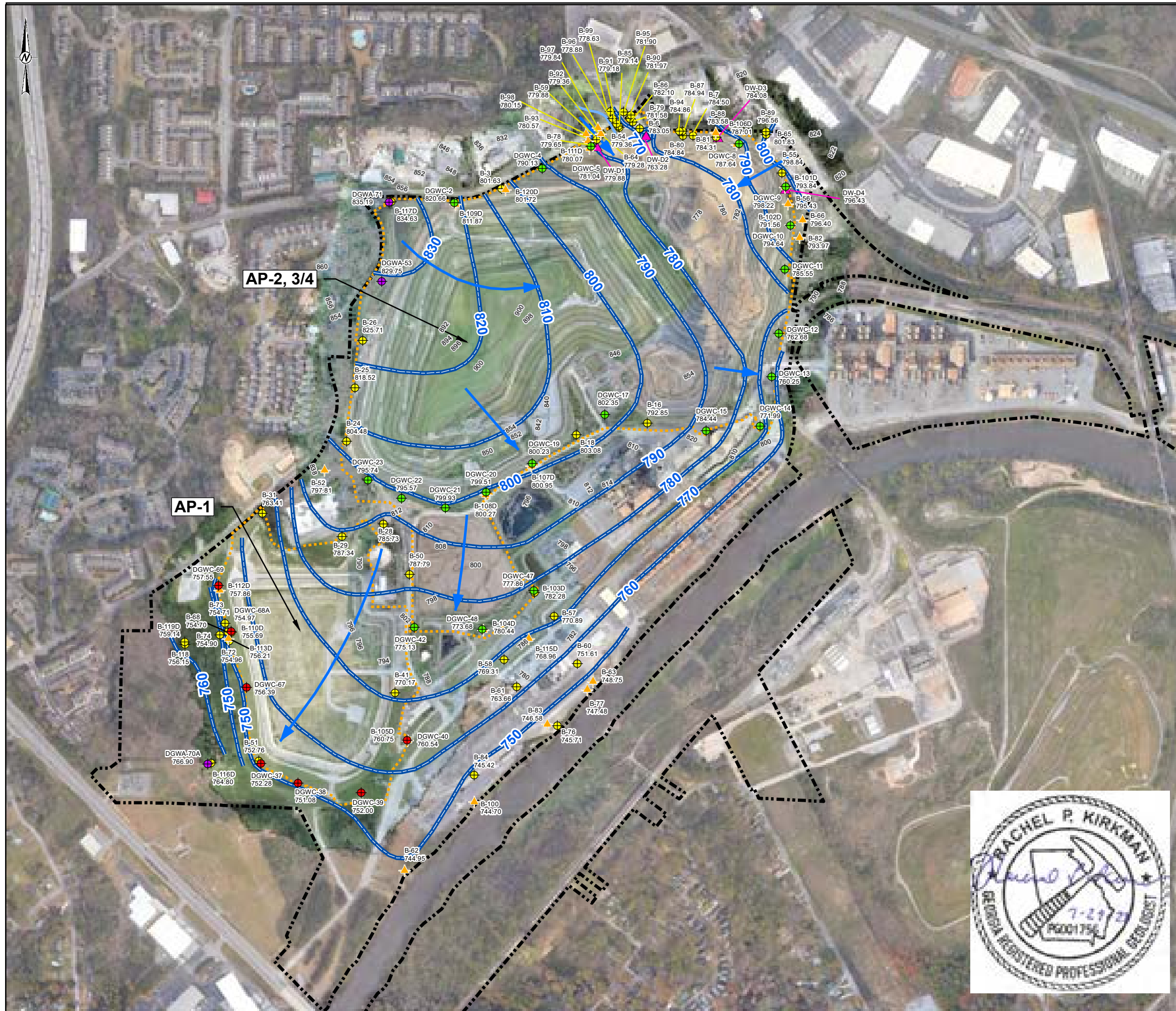
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	DESIGNED	BAS
	PREPARED	RMS
	CHECKED	PJN
	REVIEWED / APPROVED	DP/PJN

PROJECT NO. 166849621

REV. \_\_\_\_\_

FIGURE **3**

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANS/D 11



**LEGEND**

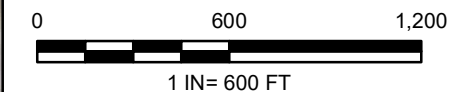
- ◆ AP-1 MONITORING WELL
- ◆ AP-2,3/4 MONITORING WELL
- ◆ UPGRADIENT WELL
- ▲ ASSESSMENT MONITORING WELLS
- ◆ PIEZOMETER
- ▲ DEWATERING WELL
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- GROUNDWATER SURFACE CONTOUR (FT-NAVD)
- SURFACE WATER STREAM
- - - PERMIT BOUNDARY
- - - PROPERTY BOUNDARY
- EXISTING TOPOGRAPHY 10-FOOT CONTOUR
- EXISTING TOPOGRAPHY 2-FOOT CONTOUR

**NOTES**

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED OCTOBER 27, 2021 BY GOLDER ASSOCIATES.
3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM (FT NAVD).
4. WELLS 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 04, 2021 AND OCTOBER 08, 2021 FROM COOPER, BARNETTE & PAGE, INC. (CBP).
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.



CLIENT  
**GEORGIA POWER COMPANY**  
 PLANT MCDONOUGH

PROJECT  
 ALTERNATE SOURCE DEMONSTRATION FOR COMBINED  
 RADIUM PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

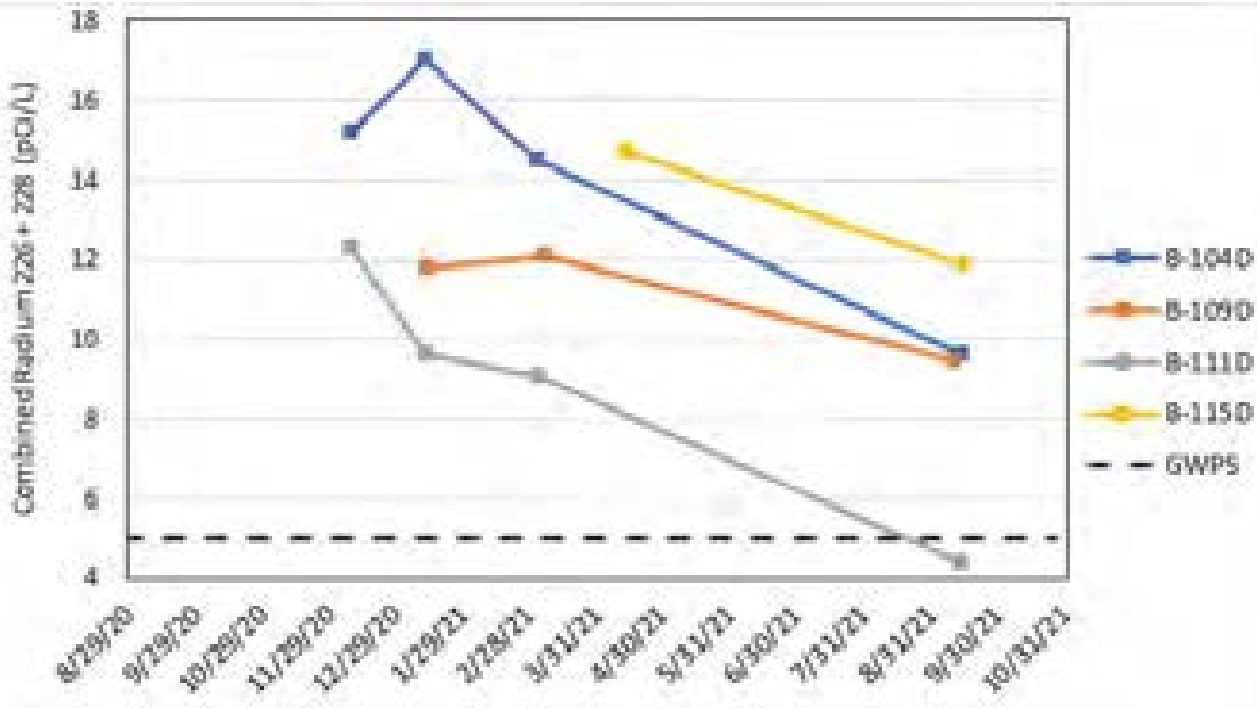
TITLE  
**SITE POTENTIOMETRIC MAP – OCTOBER 27, 2021**

CONSULTANT	YYYY-MM-DD	2021-10-29
	PREPARED	SEB
	DESIGN	SEB
	CHECKED	BAS
	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 ANSIB



CLIENT  
 GEORGIA POWER COMPANY  
 PLANT MCDONOUGH-ATKINSON

PROJECT  
 ALTERNATE SOURCE DEMONSTRATION FOR COMBINED  
 RADIUM PLANT MCDONOUGH-ATKINSON CCR UNIT 2  
 AND 3/4

CONSULTANT

YYYY-MM-DD 2022-02-18

DESIGNED DLP

PREPARED DJC

REVIEWED DLP

APPROVED RPK



TITLE

**TRENDS IN COMBINED RADIUM CONCENTRATIONS AT  
 SELECT WELLS**

PROJECT NO.  
 GL166849621

CONTROL  
 GL166849621B002.mxd

REV.  
 0

FIGURE  
 5

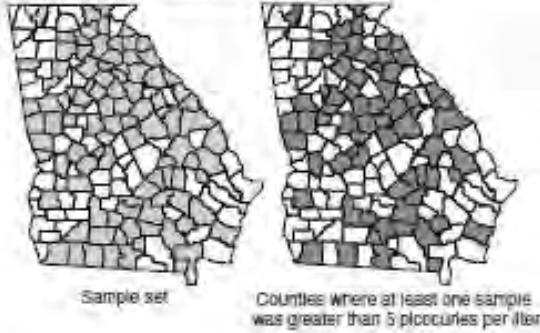
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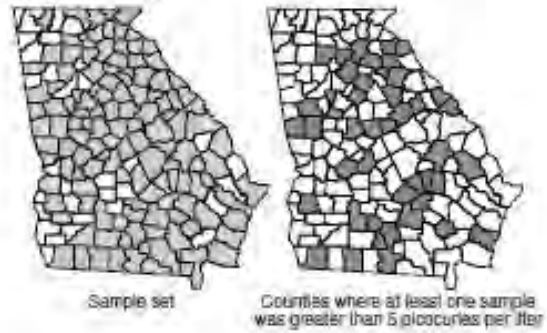
**A. Gross alpha particle activity (includes uranium and radon)**



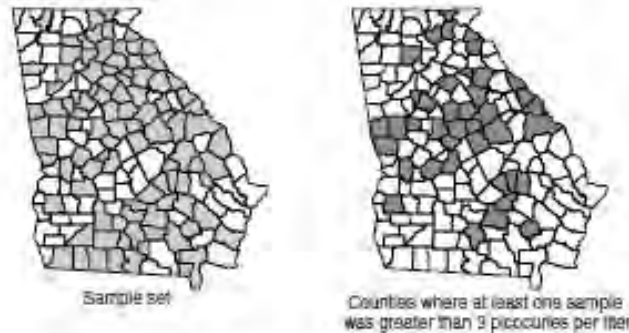
**B. Combined Radium-226/Radium-228**



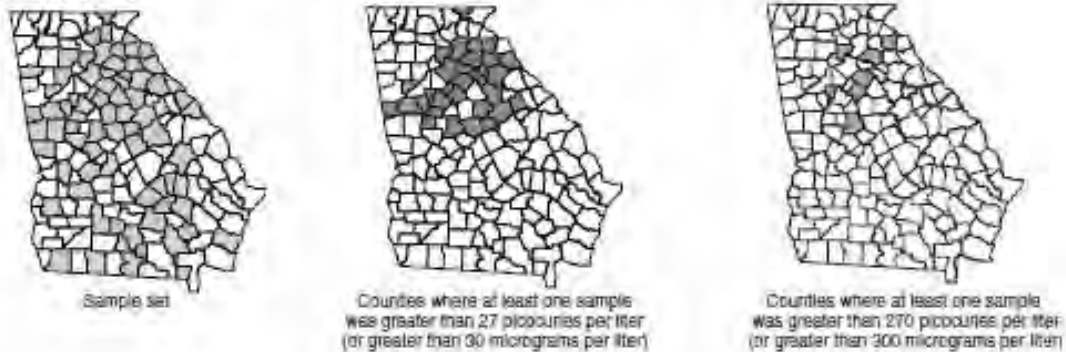
**C. Radium-226**



**D. Radium-228**



**E. Uranium**



FROM: ALBERTSON, P., 2003. NATURALLY OCCURRING RADIONUCLIDES IN GEORGIA WATER SUPPLIES: IMPLICATIONS FOR COMMUNITY WATER SYSTEMS

CLIENT  
 GEORGIA POWER COMPANY  
 PLANT MCDONOUGH-ATKINSON

PROJECT  
 ALTERNATE SOURCE DEMONSTRATION FOR COMBINED  
 RADIUM PLANT MCDONOUGH-ATKINSON CCR UNIT 2  
 AND 3/4

CONSULTANT

YYYY-MM-DD 2022-02-18

DESIGNED DLP

PREPARED DJC

REVIEWED DLP

APPROVED RPK



**NATURALLY OCCURRING RADIONUCLIDES IN COMMUNITY WATER SYSTEMS IN GEORGIA.**

PROJECT NO. CONTROL REV. FIGURE  
 GL166849621 GL166849621B002.mxd 0 6

**APPENDIX A**

# Boring Logs & Well Construction Diagrams



**BORING LOG**

**BORING B-02**  
Page 1 of 3

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant McDonough Hydrogeological Investigation  
LOCATION Cobb County, GA

DATE STARTED 10/2/2012 COMPLETED 10/2/2012 GROUND ELEVATION 848.3 ft COORDINATES N 1393958 E 2202119.5

CONTRACTOR SCS Field Services METHOD 4.25" Hollow Stem Auger w/pilot bit; HQ Rock Core EQUIPMENT CME 550

DRILLED BY S. Denty LOGGED BY R. Tinsley CHECKED BY \_\_\_\_\_ BORING DEPTH 54.4 ft.

GROUND WATER DEPTH: DURING 42 ft. COMP. \_\_\_\_\_ DELAYED 27.8 ft. after 24 hrs.

NOTES Well installed. Refer to well data sheet.

GEOTECH ENGINEERING LOGS - ESEE DATABASE: GDT - 8/26/20 20:43 - \\VALTRCFP01\1LAPARKER\DESKTOP\GPCMMW LOGS\_SURVEY UPDATED.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	SAMPLE TYPE NUMBER	SAMPLE DEPTH (ft.)	BLOW COUNTS (N VALUE)	RECOVERY % (RQD)	COMMENTS
5		<p><b>Silt (ML)</b> - Gravel surface with some vegetation.</p> <p>- brown, medium stiff, SILT with mica and quartz fragments.</p> <p>- CL-ML: dark red, stiff, SILT/CLAY; micaceous</p>		SS -1	4.5	4-6-9 (15)		2.5YR.
10		- reddish brown, dry, medium stiff, SILT with mica and relict bedding.		SS -2	9.5	4-4-4 (8)		saprolite (gneiss).
15		- medium stiff, SAA with mica, quartz and feldspar; distinct banding		SS -3	14.5	2-3-3 (6)		saprolite.
20		- light yellowish brown, medium stiff, fine to coarse grain, SILT with mica, quartz, and feldspar		SS -4	19.5	1-3-2 (5)		saprolite; distinct color change from red to tan with micas.
25				SS	24.5	2-3-5		

(Continued Next Page)



**BORING LOG**

**BORING B-02**  
Page 2 of 3

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant McDonough Hydrogeological Investigation

LOCATION Cobb County, GA

GEOTECH ENGINEERING LOGS - ESEE DATABASE: GDT - 8/26/20 20:43 - \\VALTRCFP01\1LAPARKER\DESKTOP\GPCMW LOGS\_SURVEY UPDATED.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	SAMPLE TYPE NUMBER	SAMPLE DEPTH (ft.)	BLOW COUNTS (N VALUE)	RECOVERY % (RQD)	COMMENTS
		<b>Silt (ML)(con't)</b> - damp, medium stiff, SAA		-5		(8)		upper saprolite.
30		- gray and white, dry, very hard, SILT; gneiss saprolite		SS -6	29.5	6-15-25 (40)		lower saprolite.
35		- olive brown, very hard, SAA, more evidence of water (iron) staining; some black specks (manganese?)		SS -7	34.5	9-27-40 (67)		2.5Y.
40		- pale brown, dry, very hard, pulverized SILT with gneiss fragments		SS -8	39.5	50 (0)		10YR.
45		<b>Gneiss</b> - dark gray, hard, slightly weathered, augen gneiss with iron staining along partings. - extremely weathered and broken gneiss	804.2	RC -1	44.1			H2O on augers when pulled.
50		- gray, hard, slightly weathered, staining along vertical fractures		RC -2	49.4			
		- dark gray, weathered augen gneiss and mica schist with chlorite. Quartz layers at 50 ft, 52.8 ft and 54.1 ft.; Deformed and folded about 3 inches.  - Schist: hard, slightly weathered, with chlorite						

(Continued Next Page)



# BORING LOG

**BORING B-02**  
Page 3 of 3

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant McDonough Hydrogeological Investigation

LOCATION Cobb County, GA

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	SAMPLE TYPE NUMBER	SAMPLE DEPTH (ft.)	BLOW COUNTS (N VALUE)	RECOVERY % (RQD)	COMMENTS
55		Bottom of borehole at 54.4 feet.	793.9					
60								
65								
70								
75								
80								

GEOTECH ENGINEERING LOGS - ESEE DATABASE.GDT - 8/26/20 20:43 - \\VALTRCFP01\LAPARKER\DESKTOP\GPCMMW LOGS - SURVEY UPDATED.GPJ

WELL CONSTRUCTION LOG

Southern Company Generation

PROJECT: Plant McDonough	DRILLING CO.: SCS Field Services	WELL NAME
Hydrogeologic Investigation	DRILLER: S. Denty	
LOCATION: Ash Pond	RIG TYPE: CME550	DGWA-2/B-2
LOGGER: Rhonda Tinsley	DRILLING METHODS: HS Auger/HQ Rock Core	
DATE CONSTRUCTED: 10/2/2012	N: 1393958 E:2202119.5	

	DEPTH FEET	ELEVATION FT, MSL
TOP OF RISER	-2.6	850.88
2" Threaded Riser Cap		
4 ft x 4 ft concrete pad		
GROUND SURFACE	0.0	848.3
<b>PROTECTIVE CASING</b> SIZE: 4" x 4" TYPE: aluminum		
BOTTOM OF GROUT		
<b>BACKFILL MATERIAL</b> TYPE: Portland cement/bentonite grout AMOUNT: 10 bags cement 4 lbs bentonite		
<b>RISER CASING</b> DIA: 2 inch TYPE: Schedule 40 PVC JOINT TYPE: Flush Threaded		
TOP OF SEAL	31.0	817.3
<b>ANNULAR SEAL</b> TYPE: PelPlug TR-30 3/8" bentonite pellets; 5-gallon buckets AMOUNT: 1.75 buckets PLACEMENT: Poured		
TOP OF FILTER PACK	35.1	813.2
<b>FILTER PACK</b> TYPE: Filtersil #61 Size 1A; 50 lbs/bag AMOUNT: 2.5 Bags PLACEMENT: Poured		
BOTTOM OF RISER / TOP OF SCREEN	38.7	809.7
<b>SCREEN</b> DIA: 2" prepack (3.45" OD) TYPE: Schedule 40 PVC OPENING WIDTH: 0.01 inch OPENING TYPE: Slotted SLOT SPACING: 0.1 inch		
BOTTOM OF SCREEN	48.7	799.7
Flush-threaded end cap		
BOTTOM OF CASING	49.0	799.3
HOLE DIA: 7 inch (auger) 3.8 inch (HQ core)		



# BORING LOG

**BORING B-05**  
Page 1 of 2

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant McDonough Hydrogeological Investigation  
LOCATION Cobb County, GA

DATE STARTED 10/3/2012 COMPLETED 10/4/2012 GROUND ELEVATION 788.7 ft COORDINATES N 1394306.3 E 2202965.1

CONTRACTOR SCS Field Services METHOD 4.25" Hollow Stem Auger w/pilot bit; HQ Rock Core EQUIPMENT CME 550

DRILLED BY S. Denty LOGGED BY R. Tinsley CHECKED BY \_\_\_\_\_ BORING DEPTH 30 ft.

GROUND WATER DEPTH: DURING 16 ft. COMP. \_\_\_\_\_ DELAYED 0 ft. after 100 hrs.

NOTES Well installed. Refer to well data sheet.

GEOTECH ENGINEERING LOGS - ESEE DATABASE: GDT - 8/26/20 20:43 - \\VALTRCFP01\1LAPARKER\DESKTOP\GPCMMW LOGS - SURVEY UPDATED.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	SAMPLE TYPE NUMBER	SAMPLE DEPTH (ft.)	BLOW COUNTS (N VALUE)	RECOVERY % (RQD)	COMMENTS
		<b>Silt (ML)</b> - reddish brown, SILT						
5		<b>Silty Sand (SM)</b> - olive gray, damp, very loose, silty SAND to sandy SILT	784.2	SS -1	4.5	WH-WH-WH (0)		
10		<b>Silt (ML)</b> - yellowish to light brown, damp, very soft, SILT with mica (gneiss)	779.2	SS -2	9.5	WH-WH-WH (0)		upper saprolite.
15		<b>Silty Saprolite</b> - greenish gray, wet, medium stiff, sandy SILT saprolite with relic structure (gneiss).		SS -3	14.5	2-2-4 (6)		lower saprolite.
20		<b>Silty Saprolite</b> - medium stiff, SAA		SS -4	19.5	1-2-3 (5)		lower saprolite.
25		<b>Silty Saprolite</b> - very hard, SAA; slightly less weathered.		SS	24.5	50		

(Continued Next Page)



# BORING LOG

**BORING B-05**  
Page 2 of 2

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant McDonough Hydrogeological Investigation

LOCATION Cobb County, GA

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	SAMPLE TYPE NUMBER	SAMPLE DEPTH (ft.)	BLOW COUNTS (N VALUE)	RECOVERY % (RQD)	COMMENTS
30		<b>Gneiss</b> - black (biotite) and white, hard, slightly weathered, AUGEN GNEISS with water staining along foliations (approx. 45 degrees).	763.3	-5 RC -1	24.9	(0)		lower saprolite.
		Bottom of borehole at 30.0 feet.	758.7					

GEOTECH ENGINEERING LOGS - ESEE DATABASE.GDT - 8/26/20 20:43 - \\VALTRCFP01\IAPARKER\DESKTOP\GPCMMW LOGS\_SURVEY UPDATED.GPJ



WELL CONSTRUCTION LOG

Southern Company Generation

PROJECT: Plant McDonough	DRILLING CO.: SCS Field Services	WELL NAME
Hydrogeologic Investigation	DRILLER: S. Denty	
LOCATION: Ash Pond	RIG TYPE: CME550	
LOGGER: Rhonda Tinsley	DRILLING METHODS: HS Auger/HQ Rock Core	DGWC-5/B-5
DATE CONSTRUCTED: 10/4/2012	N: 1394306.3 E:2202965.1	

	DEPTH FEET	ELEVATION FT, MSL
TOP OF RISER	-3.0	791.75
2" Threaded Riser Cap		
4 ft x 4 ft concrete pad		
GROUND SURFACE	0.0	788.7
<b>PROTECTIVE CASING</b> SIZE: 4" x 4" TYPE: aluminum		
BOTTOM OF GROUT		
<b>BACKFILL MATERIAL</b> TYPE: Portland cement/bentonite grout AMOUNT: 5 bags cement 7 lbs bentonite		
<b>RISER CASING</b> DIA: 2 inch TYPE: Schedule 40 PVC JOINT TYPE: Flush Threaded		
TOP OF SEAL	12.0	776.7
<b>ANNULAR SEAL</b> TYPE: PelPlug TR-30 3/8" bentonite pellets; 5-gallon buckets AMOUNT: 2 buckets PLACEMENT: Tremie		
TOP OF FILTER PACK	16.0	772.7
<b>FILTER PACK</b> TYPE: Filtersil #61 Size 1A; 50 lbs/bag AMOUNT: 1.5 Bags PLACEMENT: Tremie		
BOTTOM OF RISER / TOP OF SCREEN	19.7	769.1
<b>SCREEN</b> DIA: 2" prepack (3.45" OD) TYPE: Schedule 40 PVC OPENING WIDTH: 0.01 inch OPENING TYPE: Slotted SLOT SPACING: 0.1 inch		
BOTTOM OF SCREEN	29.7	759.1
Flush-threaded end cap		
BOTTOM OF CASING	30.0	758.7
HOLE DIA: 7 inch (auger) 3.8 inch (HQ core)		

# Location resurveyed June - July 2020

## RECORD OF BOREHOLE DGWC-48/B-48

SHEET 1 of 1

PROJECT: Plant McDonough  
 PROJECT NUMBER: 1668496.18  
 DRILLED DEPTH: 30.00 ft  
 LOCATION: Smyrna, GA

DRILL RIG: 100C Track Mounted Rig  
 DATE STARTED: 6/21/16  
 DATE COMPLETED: 6/22/16

NORTHING: 1,391,314.60  
 EASTING: 2,202,290.20  
 GS ELEVATION: 785.2  
 TOC ELEVATION: 788.33 ft

DEPTH W.L.: 11.35  
 ELEVATION W.L.: 773.85  
 DATE W.L.: 6/23/2016  
 TIME W.L.: 9:55

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0	785	0.00 - 3.00 SILT; orange brown, micaceous, dry, very stiff (fill)	ML		782.2 3.00					<p><b>WELL CASING</b> Interval: 0'-30' Material: Schedule 40 PVC Diameter: 2" Joint Type: Flush threaded with O-ring</p> <p><b>WELL SCREEN</b> Interval: 19.6'-29.6' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p><b>FILTER PACK</b> Interval: 17.6'-30' Type: Filtersil std61</p> <p><b>FILTER PACK SEAL</b> Interval: 12.1'-17.6' Type: 3/8" Bentonite Pellets</p> <p><b>ANNULUS SEAL</b> Interval: 0'-12.1' Type: Portland Type I/Type II/Gel Mix</p> <p><b>WELL COMPLETION</b> Pad: 4'x4'x4" Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Sonic Rock Drill: Sonic</p>
5	780	3.00 - 11.00 SILT; oragnish brown to tan, laminations, trace to some medium to coarse sand, trace fine to coarse gravel, gray, subangular, moist (saprolite)	ML					Portland Type I/ Aluminum Casing		
10	775	11.00 - 24.00 SILT; gray to blackish brown, some fine to coarse sand, laminations, stiff to very stiff, dry	ML		774.2 11.00			Portland Type I/ Bentonite Gel mix		
15	770	24.00 - 30.00 biotite GNEISS; gray and white, orange staining, partially weathered bedrock, some clay, gray, micaceous	BR		761.2 24.00			3/8" Bentonite Pellets		
20	765							Filtersil std #61		
25	760							0.010" slot screen		
30	755	Boring completed at 30.00 ft			755.2			Sump		
35	750									
40	745									
45										

BOREHOLE RECORD MCDONOUGH MASTER LIST\_BACKUP\_SURVEY UPDATED (5).GPJ PIEDMONT.GDT 8/24/20

LOG SCALE: 1 in = 5.5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Bill Lindsey

GA INSPECTOR: K. Jurinko, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 12/22/17



RECORD OF BOREHOLE B-54

SHEET 1 of 1

PROJECT: Plant McDonough  
 PROJECT NUMBER: 1668496.18  
 DRILLED DEPTH: 34.20 ft  
 LOCATION: Eastside of the stream north of AP4

DRILL RIG: CME 55  
 DATE STARTED: 9/26/16  
 DATE COMPLETED: 9/26/16

NORTHING: 1,394,423.50  
 EASTING: 2,203,140.70  
 GS ELEVATION: 782.6  
 TOC ELEVATION: 785.46 ft

DEPTH W.L.: 4.56  
 ELEVATION W.L.: 778.04  
 DATE W.L.: 10/6/2016  
 TIME W.L.: 839

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES				MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop			N-VALUE
0	780	0.00 - 13.50 Top 10' were Hydrovac for utilities.									<p><b>WELL CASING</b> Interval: 0'-23.8' Material: Schedule 40 PVC Diameter: 2 Joint Type: Flush/Screw</p> <p><b>WELL SCREEN</b> Interval: 23.8'-33.8' Material: Schedule 40 PVC Diameter: 2 Slot Size: 0.010 End Cap: Schedule 40 PVC</p> <p><b>FILTER PACK</b> Interval: 21.9'-34.2' Type: FilterSil</p> <p><b>FILTER PACK SEAL</b> Interval: 17.8'-21.9' Type: PEL-PLUG 3/8" Bentonite pellets</p> <p><b>ANNULUS SEAL</b> Interval: 0-17.8' Type: Portland Type I/Type II/Gel Mix</p> <p><b>WELL COMPLETION</b> Pad: 2' x 2' concrete Protective Casing: 4"x4"x5' aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Hollow-stem auger Rock Drill: HQ Core Barrell</p>
15	769.1	13.50 - 28.50 SM, silty SAND, fine to coarse, non to low plasticity; white to gray, weathered, well foliated gneissic saprolite; cohesive, moist, w<PL, stiff.	SM		1	DO	6-7-6	13	0.83 1.50		
20	765				2	DO	5-9-8	17	1.33 1.50	PEL-PLUG 3/8" Bentonite pellets	
25	760				3	DO	4-5-11	15	0.00 1.50	FilterSil -	
30	754.1	28.50 - 29.00 GPS, poorly-graded sandy GRAVEL, fine to coarse, non plastic, some silt; white to tan to pink, K-spar and Quartz; non-cohesive, wet, w<PL, dense., PWR. Auger Refusal at 29.0	GP-GM		4	DO	21-50/1	71/7	0.50 0.58	0.010 Slotted Screen	
35	753.6	29.00 - 34.20 Bedrock; AUGEN GNEISS; fresh to slightly weathered, well foliated, gray, fine grained, medium strong to strong, (locally contains pegmatite zones). Boring completed at 34.20 ft	BR								

BOREHOLE RECORD\_MCDONOUGH MASTER LIST\_BACKUP\_SURVEY UPDATED (5).GPJ\_PIEDMONT.GDT 8/24/20

LOG SCALE: 1 in = 5.5 ft  
 DRILLING COMPANY: Terracon  
 DRILLER: Shep Becker

GA INSPECTOR: Michael Boatman, PG  
 CHECKED BY: Timothy Richards, PG  
 DATE: 12/22/17



# RECORD OF BOREHOLE B-57

SHEET 1 of 2

PROJECT: Plant McDonough  
 PROJECT NUMBER: 1659778-01  
 DRILLED DEPTH: 50.50 ft  
 LOCATION: North of the 4-wide construction trailer

DRILL RIG: CME 55  
 DATE STARTED: 9/24/16  
 DATE COMPLETED: 9/24/16

NORTHING: 1,391,397.46  
 EASTING: 2,202,735.64  
 GS ELEVATION: 785.76  
 TOC ELEVATION: 789.22 ft

DEPTH W.L.: 21.49'  
 DATE W.L.: 10/6/2016  
 TIME W.L.: 9:20  
 GW ELEVATION: 767.73

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES					MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop	N-VALUE			REC
0	785	0.00 - 10.00 Boring was hydrovac'd to 10' bgs (material appears to be SM-ML)	SM-ML		775.76						Portland Type I/Type II/Gel Mix / aluminum casing	<b>WELL CASING</b> Interval: 0'-40' Material: Schedule 40 PVC Diameter: 2 Joint Type: Flush/Screw  <b>WELL SCREEN</b> Interval: 40'-50' Material: Schedule 40 PVC Diameter: 2 Slot Size: 0.010 End Cap: Schedule 40 PVC  <b>FILTER PACK</b> Interval: 34.6'-50.5' Type: FilterSil  <b>FILTER PACK SEAL</b> Interval: 29'-34.6' Type: PEL-PLUG 3/8" Bentonite pellets  <b>ANNULUS SEAL</b> Interval: 0'-29' Type: Portland Type I/Type II/Gel Mix  <b>WELL COMPLETION</b> Pad: 2' x 2' concrete Protective Casing: 4"x4"x5' aluminum  <b>DRILLING METHODS</b> Soil Drill: Hollow-stem auger Rock Drill: HQ Core Barrell
5	780				10.00 - 30.00 ML- Sandy Clayey SILT, fine to coarse sand, some fine gravel; reddish-brown to brown, dense, dry; micaceous, PWR	10.00	1	DO	4-10-14	24		
10	775											
15	770		ML			2	DO	11-24-50/5	74/11	1.00 1.50		
20	765											
25	760											
30	755		CL		755.76	4	DO	4-4-8	12	1.33 1.50	PEL-PLUG 3/8" Bentonite pellets	
		30.00 - 34.50 CL- Silty CLAY, SOME fine to medium SAND, trace gravel; brown; loose, W<PL; micaceous, PWR. Auger Refusal at 34.5			30.00							
35	750		BR		751.26	5	DO	50/3	50/3	0.00 0.25	FilterSil -	
		34.50 - 50.50 Bedrock; SCHIST; strong to very strong, light to dark gray with white and black laminations, sub-parallel; slightly weathered top with red oxidation on fractured surfaces to fresh and unfractured at the bottom.			34.50							
40	745									0.010 Slotted Screen		
45												

BOREHOLE RECORD 165977801\_GRP\B-47-B-71.GPJ\_PIEDMONT.GDT 12/22/17

Log continued on next page

LOG SCALE: 1 in = 5.5 ft  
 DRILLING COMPANY: Terracon  
 DRILLER: Shep Becker

GA INSPECTOR: Aubrey Ellis  
 CHECKED BY: TIR  
 DATE: 12/22/17



# RECORD OF BOREHOLE B-57

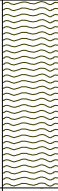
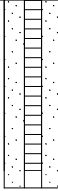
SHEET 2 of 2

PROJECT: Plant McDonough  
 PROJECT NUMBER: 1659778-01  
 DRILLED DEPTH: 50.50 ft  
 LOCATION: North of the 4-wide construction trailer

DRILL RIG: CME 55  
 DATE STARTED: 9/24/16  
 DATE COMPLETED: 9/24/16

NORTHING: 1,391,397.46  
 EASTING: 2,202,735.64  
 GS ELEVATION: 785.76  
 TOC ELEVATION: 789.22 ft

DEPTH W.L.: 21.49'  
 DATE W.L.: 10/6/2016  
 TIME W.L.: 9:20  
 GW ELEVATION: 767.73

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES				MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop			N-VALUE
45	740	34.50 - 50.50 Bedrock; SCHIST; strong to very strong, light to dark gray with white and black laminations, sub-parallel; slightly weathered top with red oxidation on fractured surfaces to fresh and unfractured at the bottom. <i>(Continued)</i>	BR								<b>WELL CASING</b> Interval: 0'-40' Material: Schedule 40 PVC Diameter: 2 Joint Type: Flush/Screw  <b>WELL SCREEN</b> Interval: 40'-50' Material: Schedule 40 PVC Diameter: 2 Slot Size: 0.010 End Cap: Schedule 40 PVC  <b>FILTER PACK</b> Interval: 34.6'-50.5' Type: FilterSil  <b>FILTER PACK SEAL</b> Interval: 29'-34.6' Type: PEL-PLUG 3/8" Bentonite pellets  <b>ANNULUS SEAL</b> Interval: 0'-29' Type: Portland Type I/Type II/Gel Mix  <b>WELL COMPLETION</b> Pad: 2' x 2' concrete Protective Casing: 4"x4"x5' aluminum  <b>DRILLING METHODS</b> Soil Drill: Hollow-stem auger Rock Drill: HQ Core Barrel
50	735				Boring completed at 50.50 ft						
55	730										
60	725										
65	720										
70	715										
75	710										
80	705										
85	700										
90											

BOREHOLE RECORD 165977801\_GRN(B-47-B-71).GPJ\_PIEDMONT.GDT 12/22/17

LOG SCALE: 1 in = 5.5 ft  
 DRILLING COMPANY: Terracon  
 DRILLER: Shep Becker

GA INSPECTOR: Aubrey Ellis  
 CHECKED BY: TIR  
 DATE: 12/22/17



# Location resurveyed June - July 2020

## RECORD OF BOREHOLE DGWC-68/B-68

SHEET 1 of 1

PROJECT: Plant McDonough  
 PROJECT NUMBER: 1668496.18  
 DRILLED DEPTH: 40.40 ft  
 LOCATION: West Toe of AP-1

DRILL RIG: Geoprobe  
 DATE STARTED: 3/16/17  
 DATE COMPLETED: 3/16/17

NORTHING: 1,391,298.20  
 EASTING: 2,200,714.20  
 GS ELEVATION: 759.0  
 TOC ELEVATION: 758.68 ft

DEPTH W.L.: 3.5  
 ELEVATION W.L.: 755.06  
 DATE W.L.: 3/16/17  
 TIME W.L.: 1700

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES					MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	BLOWS per 6 in 140 lb hammer 30 inch drop	N-VALUE			REC
0		0.00 - 10.00 Hydrovac									Flush Mounted Casing CETCO puregold grout (70:30) PEL-PLUG 3/8" Bentonite pellets	<b>WELL CASING</b> Interval: 0'-8' Material: Schedule 40 PVC Diameter: 2" Joint Type: Flush/Screen  <b>WELL SCREEN</b> Interval: 8.0'-18.0' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC  <b>FILTER PACK</b> Interval: 6.1'-18.4' Type: FilterSil  <b>FILTER PACK SEAL</b> Interval: 4.1'-6.1' Type: PEL-PLUG 3/8" Bentonite pellets  <b>ANNULUS SEAL</b> Interval: 0'-4.1' Type: CETCO puregold grout (70:30)  <b>WELL COMPLETION</b> Pad: 4'x4' Concrete Protective Casing: 8" Round Flush Mount  <b>DRILLING METHODS</b> Soil Drill: Hollow-stem auger Rock Drill: HQ Core Barrell
7.55												
10		10.00 - 15.00 Sandy Silt, fine to medium sand, dark brown, highly weathered, micaceous, cohesive, moist, firm, sample spoon wet	ML								FilterSil	
14.5				749								
15		15.00 - 18.80 Silty Sand, fine to coarse, trace gravel, greenish grey, weathered, thinly bedded, noncohesive, very dense, (weathered gneiss)	PWR									
14.5				744	S1	SPT	5-6-5	11	1.08	1.50	.010" Slotted Schedule 40 PVC	
15				740.2								
19		19.20 - 22.80 Slightly weathered to fresh, weakly foliated, light gray to white, fine to very fine grained, medium strong to strong, MYLONITE (White Mylonite).	BR									
19				740	S2	SPT	50/3	50/3	0.25	0.25	FilterSil	
22.8		22.80 - 24.10 Slight to moderately weathered, weakly foliated, dary gray to black, fine to very fine grained, medium strong, MYLONITE (Black Mylonite).	BR									
22.8				736.2								
24.1		24.10 - 28.90 Slightly weathered to fresh, weakly foliated, interlayered with vein quartz (~1"), light grey to white, fine to very fine grained, medium strong to strong, MYLONITE (White Mylonite).	BR									
24.1				734.9								
24.1				730.1								
28.9		28.90 - 38.00 Slightly weathered to fresh, moderate to strongly foliated, interlayered with Black Mylonite (~1") and pegmatites (~1 to 2"), light to dark gray, fine to coarse grained, medium strong to strong, Sheared Gneiss (Long Island Creek).	BR									
28.9				730.1								
28.9				28.90							PEL-PLUG 3/8" Bentonite pellets	
38		38.00 - 39.20 Slight to moderately weathered, weakly foliated, dary gray to black, fine to very fine grained, medium strong, MYLONITE (Black Mylonite).	BR									
38				721								
38				38.00								
39.2		39.20 - 40.40 Slightly weathered to fresh, moderate to strongly foliated, light to dark gray, fine to coarse grained, medium strong to strong, Sheared Gneiss (Long Island Creek).	BR									
39.2				719.8								
39.2				39.20								
39.2				718.6								
40.4		Boring completed at 40.40 ft										

BOREHOLE RECORD: MCDONOUGH MASTER LIST\_BACKUP\_SURVEY\_UPDATED (5).GPJ PIEDMONT.GDT 8/24/20

LOG SCALE: 1 in = 5.5 ft  
 DRILLING COMPANY: Southern Company Services  
 DRILLER: Sean Denty

GA INSPECTOR: Ben Hodges  
 CHECKED BY: Timothy Richards, PG  
 DATE: 1/16/18



# RECORD OF BOREHOLE B-104D

SHEET 1 of 2

PROJECT: Plant McDonough  
 PROJECT NUMBER: 1668496.18  
 DRILLED DEPTH: 60.00 ft  
 LOCATION: East of DGWC-48

DRILL RIG: Geoprobe 8140LC  
 DATE STARTED: 10/20/20  
 DATE COMPLETED: 10/20/20

NORTHING: 1391318.3  
 EASTING: 2202298.5  
 GS ELEVATION: 785.3 ft  
 TOC ELEVATION: 787.90 ft

DEPTH W.L.: 12.0  
 ELEVATION W.L.: 775.9  
 DATE W.L.: 10/20/2020  
 TIME W.L.: 1818

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV.	SAMPLE NO.	TYPE	REC		
					DEPTH (ft)					
0	0.00 - 10.00	Air knife; FILL	FILL	[Cross-hatched pattern]					<p><b>B-104D</b>                      Borehole Diameter: 4"  <b>WELL CASING</b>                      Interval: 0'-60'                      Material: Schedule 40 PVC                      Diameter: 2"                      Joint Type: Screw fit with rubber seam  <b>WELL SCREEN</b>                      Interval: 50'-60'                      Material: Schedule 40 PVC                      Diameter: 2"                      Slot Size: .010"                      End Cap: Schedule 40 PVC  <b>FILTER PACK</b>                      Interval: 47.15'-60.0'                      Type: FilterSil                      Quantity: 4-50 lbs bags  <b>FILTER PACK SEAL</b>                      Interval: 44'-47.15'                      Type: 3/8" Uncoated Pel-Plug                      Quantity: 1-5 gallon bucket  <b>ANNULUS SEAL</b>                      Interval: 0'-44'                      Type: AquaGuard Bentonite Grout                      Quantity: Approximately 40 gallons</p> <p><b>NOTES</b></p>	
10	10.00 - 12.00	(CL), CLAY; red brown; moist, soft, low plasticity, w<PL, FILL	CL	[Diagonal hatching]	10.00					
12	12.00 - 22.00	(ML), SILT; dark brown to gray; non-plastic to low plasticity, dry to moist, w<PL, soft to firm	ML	[Vertical lines]	12.00	1	ROTO SONIC	8.00 8.00		
20						2	ROTO SONIC	4.00 4.00		
22	22.00 - 30.00	(ML), SILT; dark brown; w~PL, moist to wet, soft to firm, contains gravels of biotite gneiss (trace)	ML	[Vertical lines]	22.00	3	ROTO SONIC	8.00 8.00		
30	30.00 - 35.00	(TWR), TRANSITIONALLY WEATHERED ROCK; rust brown to gray; deeply weathered biotite gneiss, poorly foliated, poorly jointed, iron staining	TWR	[Blue triangles]	30.00	4	ROTO SONIC	6.55 10.00		
35	35.00 - 55.50	(GNEISS), BEDROCK; biotite, quartz, feldspar, light to dark gray, strong to medium strong, fresh to slightly weathered, locally contains iron staining and garnets	BR	[Red wavy lines]	35.00	5	ROTO SONIC	2.10 5.00		
45						6	ROTO SONIC	4.35 7.50		
50		Log continued on next page								

BOREHOLE RECORD - MCDONOUGH MASTER LIST (2).GPJ - PIEDMONT.GDT 2/3/21

LOG SCALE: 1 in = 6.5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Fred Dorse

GA INSPECTOR: Michael Boatman, PG  
 CHECKED BY: Timothy Richards, PG  
 DATE: 2/3/21



# RECORD OF BOREHOLE B-104D

SHEET 2 of 2

PROJECT: Plant McDonough  
 PROJECT NUMBER: 1668496.18  
 DRILLED DEPTH: 60.00 ft  
 LOCATION: East of DGWC-48

DRILL RIG: Geoprobe 8140LC  
 DATE STARTED: 10/20/20  
 DATE COMPLETED: 10/20/20

NORTHING: 1391318.3  
 EASTING: 2202298.5  
 GS ELEVATION: 785.3 ft  
 TOC ELEVATION: 787.90 ft

DEPTH W.L.: 12.0  
 ELEVATION W.L.: 775.9  
 DATE W.L.: 10/20/2020  
 TIME W.L.: 1818

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE			REC
50		35.00 - 55.50 (GNEISS), BEDROCK; biotite, quartz, feldspar, light to dark gray, strong to medium strong, fresh to slightly weathered, locally contains iron staining and garnets <i>(Continued)</i>	BR	[Red wavy lines]		6		4.35 7.50	<div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">Pack</div> </div>	<p><b>B-104D</b>                      Borehole Diameter: 4"  <b>WELL CASING</b>                      Interval: 0'-60'                      Material: Schedule 40 PVC                      Diameter: 2"                      Joint Type: Screw fit with rubber seam  <b>WELL SCREEN</b>                      Interval: 50'-60'                      Material: Schedule 40 PVC                      Diameter: 2"                      Slot Size: .010"                      End Cap: Schedule 40 PVC  <b>FILTER PACK</b>                      Interval: 47.15'-60.0'                      Type: FilterSil                      Quantity: 4-50 lbs bags  <b>FILTER PACK SEAL</b>                      Interval: 44'-47.15'                      Type: 3/8" Uncoated Pel-Plug                      Quantity: 1-5 gallon bucket  <b>ANNULUS SEAL</b>                      Interval: 0'-44'                      Type: AquaGuard Bentonite Grout                      Quantity: Approximately 40 gallons</p> <p><b>NOTES</b></p>
55		55.50 - 60.00 (SCHIST), BEDROCK; quartz, muscovite, gray to silver, medium grain, medium strong, fresh to moderately weathered	BR	[Black diagonal lines]	55.50	7	ROTO SONIC	6.15 7.50		
60		Boring completed at 60.00 ft								
65										
70										
75										
80										
85										
90										
95										
100										

BOREHOLE RECORD - MCDONOUGH MASTER LIST (2).GPJ - PIEDMONT.GDT 2/3/21

LOG SCALE: 1 in = 6.5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Fred Dorse

GA INSPECTOR: Michael Boatman, PG  
 CHECKED BY: Timothy Richards, PG  
 DATE: 2/3/21





# RECORD OF BOREHOLE B-109D

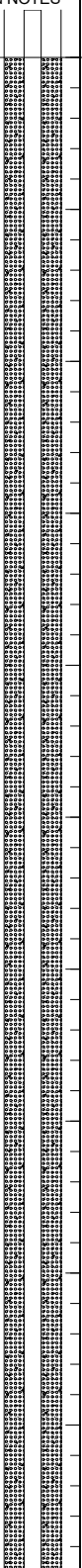
SHEET 1 of 2

PROJECT: Plant McDonough  
 PROJECT NUMBER: 1668496.18  
 DRILLED DEPTH: 100.00 ft  
 LOCATION: Next to DGWC-2

DRILL RIG: Geoprobe 8140LS  
 DATE STARTED: 10/30/20  
 DATE COMPLETED: 10/31/20

NORTHING: 1393957.5  
 EASTING: 2202127  
 GS ELEVATION: 847.8 ft  
 TOC ELEVATION: 850.73 ft

DEPTH W.L.: 23.50  
 ELEVATION W.L.: 827.2  
 DATE W.L.: 10/31/2020  
 TIME W.L.: 1157

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0		0.00 - 10.00 Air knife; FILL	FILL	[Cross-hatched pattern]					Stick-up - 	<b>B-109D</b> Borehole Diameter: 4" <b>WELL CASING</b> Interval: 0'-100' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam <b>WELL SCREEN</b> Interval: 86.4'-99.4' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC <b>FILTER PACK</b> Interval: 86.5'-99.4' Type: FilterSil Quantity: 4-50 lbs bags <b>FILTER PACK SEAL</b> Interval: 83.9'-86.5' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket <b>ANNULUS SEAL</b> Interval: 0'-83.9' Type: AquaGuard Bentonite Grout Quantity: Approximately 80 gallons  <b>NOTES</b>
10		10.00 - 13.50 (ML). SILT; brown, soft,	ML	[Vertical lines pattern]	10.00					
15		13.50 - 20.00 (CL). CLAY; red to red brown, trace sand, medium plasticity, w<PL, firm, moist to dry,	CL	[Diagonal lines pattern]	13.50	1	ROTO SONIC	10.00 10.00		
20		20.00 - 30.00 (SM). SILTY SAND; gray to reddish gray, fine to medium, loose to soft, dry to moist, w<PL, low plasticity, quartz, biotite, feldspar	SM	[Dotted pattern]	20.00	2	ROTO SONIC	3.70 10.00		
30		30.00 - 36.00 (SM). SILTY SAND; gray to reddish gray, some clay, fine to medium, loose to soft, dry to moist, w<PL, low plasticity, quartz, biotite, feldspar	SM	[Dotted pattern]	30.00	3	ROTO SONIC	6.00 6.00		
35		36.00 - 40.00 (CL). CLAY; black to dark gray, low plasticity, w<PL, very soft to hard, dry to moist, saprolite, biotite gneiss, saprolite,	CL	[Diagonal lines pattern]	36.00	4	ROTO SONIC	4.00 4.00		
40		40.00 - 45.00 (TWR). TRANSITIONALLY WEATHERED ROCK; black to dark gray, silt with some fine sand, trace gravels, low plasticity, w<PL, soft, moist to wet, biotite gneiss fragments	TWR	[Triangle pattern]	40.00	5	ROTO SONIC	2.20 5.00		
45		45.00 - 46.00 (GRANITE). BEDROCK; biotite, feldspar, quartz, white to light gray, fine grain, quartz veins, weakly foliated, poorly jointed, fresh to slightly weathered, medium strong	BR	[Pink wavy pattern]	45.00	6	ROTO SONIC	4.20 10.00		
50		46.00 - 55.00 (GNEISS). BEDROCK; feldspar, quartz, biotite, black to dark gray, well foliated, poorly jointed fresh to slightly weathered, medium strong to weak, iron staining	BR	[Red wavy pattern]	46.00					

BOREHOLE RECORD MCDONOUGH MASTER LIST (2).GPJ - PIEDMONT.GDT 2/3/21

LOG SCALE: 1 in = 6.5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Fred Dorse

GA INSPECTOR: Michael Boatman, PG  
 CHECKED BY: Timothy Richards, PG  
 DATE: 2/3/21



Log continued on next page

# RECORD OF BOREHOLE B-109D

SHEET 2 of 2

PROJECT: Plant McDonough  
 PROJECT NUMBER: 1668496.18  
 DRILLED DEPTH: 100.00 ft  
 LOCATION: Next to DGWC-2

DRILL RIG: Geoprobe 8140LS  
 DATE STARTED: 10/30/20  
 DATE COMPLETED: 10/31/20

NORTHING: 1393957.5  
 EASTING: 2202127  
 GS ELEVATION: 847.8 ft  
 TOC ELEVATION: 850.73 ft

DEPTH W.L.: 23.50  
 ELEVATION W.L.: 827.2  
 DATE W.L.: 10/31/2020  
 TIME W.L.: 1157

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
50		46.00 - 55.00 (GNEISS), BEDROCK; feldspar, quartz, biotite, black to dark gray, well foliated, poorly jointed fresh to slightly weathered, medium strong to weak, iron staining ( <i>Continued</i> )	BR			6	ROTO SONIC	4.20 10.00		<p><b>B-109D</b>                      Borehole Diameter: 4"  <b>WELL CASING</b>                      Interval: 0'-100'                      Material: Schedule 40 PVC                      Diameter: 2"                      Joint Type: Screw fit with rubber seam  <b>WELL SCREEN</b>                      Interval: 88.4'-99.4'                      Material: Schedule 40 PVC                      Diameter: 2"                      Slot Size: .010"                      End Cap: Schedule 40 PVC  <b>FILTER PACK</b>                      Interval: 86.5'-99.4'                      Type: FilterSil                      Quantity: 4-50 lbs bags  <b>FILTER PACK SEAL</b>                      Interval: 83.9'-86.5'                      Type: 3/8" Uncoated Pel-Plug                      Quantity: 1-5 gallon bucket  <b>ANNULUS SEAL</b>                      Interval: 0'-83.9'                      Type: AquaGuard Bentonite Grout                      Quantity: Approximately 80 gallons</p> <p><b>NOTES</b></p>
55		55.00 - 65.00 (GNEISS), BEDROCK; feldspar, quartz, biotite, black to dark gray, well foliated, poorly jointed, fresh to slightly weathered, medium strong to weak, iron staining. Pegmatitic zone 57.75' - 58.75' bgs (biotite, quartz, feldspar).	BR		55.00	7	ROTO SONIC	8.25 10.00		
60			BR			8	ROTO SONIC	10.00 10.00		
65		65.00 - 80.00 (GNEISS), BEDROCK; quartz, feldspar, biotite, black to dark gray, well foliated, poorly jointed fresh to slightly weathered, medium strong to weak, iron staining.	BR		65.00	9	ROTO SONIC	5.00 5.00		
70			BR			10	ROTO SONIC	4.25 5.00		
75		80.00 - 85.00 (GNEISS), BEDROCK; feldspar, quartz, biotite, black to dark gray, well foliated, poorly jointed, fresh, fine to medium grain, medium strong, iron staining, locally contains chlorite	BR		80.00	11	ROTO SONIC	5.00 5.00		
80			BR		12	ROTO SONIC	8.40 10.00			
85		85.00 - 100.00 (GNEISS), BEDROCK; feldspar, quartz, biotite, green when dry and dark gray to black when wet, well foliated, poorly jointed fresh, fine to medium grain, medium strong, iron staining, locally contains chlorite and epidote	BR	85.00						
90								3/8" Uncoated Pel-Plug		
95								Sand Filter Pack		
100								U-Pack Screen		
Boring completed at 100.00 ft										

BOREHOLE RECORD MCDONOUGH MASTER LIST (2).GPJ - PIEDMONT.GDT 2/3/21

LOG SCALE: 1 in = 6.5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Fred Dorse

GA INSPECTOR: Michael Boatman, PG  
 CHECKED BY: Timothy Richards, PG  
 DATE: 2/3/21



# RECORD OF BOREHOLE B-111D


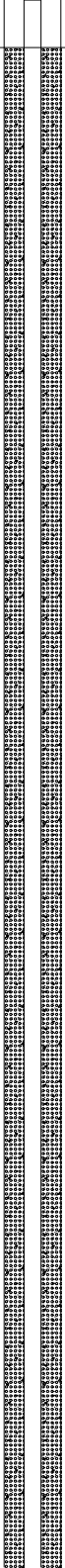




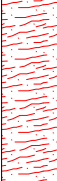
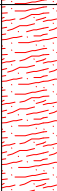
SHEET 1 of 2

PROJECT: Plant McDonough  
 PROJECT NUMBER: 1668496.18  
 DRILLED DEPTH: 85.00 ft  
 LOCATION: West of DGWC-5

DRILL RIG: Geoprobe 8140LC  
 DATE STARTED: 11/1/20  
 DATE COMPLETED: 11/3/20

NORTHING: 1394303.4  
 EASTING: 2202956.4  
 GS ELEVATION: 789.1 ft  
 TOC ELEVATION: 791.87 ft

DEPTH W.L.: 8.9  
 ELEVATION W.L.: 755.30  
 DATE W.L.: 11/3/2020  
 TIME W.L.: 0815

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0		0.00 - 10.00 Air Knife; Fill	FILL						Stick-up -   AquaGuard Bentonite Grout	<b>B-111D</b> Borehole Diameter: 6" <b>WELL CASING</b> Interval: 0'-85' Material: Schedule 40 PVC Diameter: 2" Joint Type: Screw fit with rubber seam <b>WELL SCREEN</b> Interval: 74.15'-84.15' Material: Schedule 40 PVC Diameter: 2" Slot Size: .010" End Cap: Schedule 40 PVC <b>FILTER PACK</b> Interval: 72.1'-84.15' Type: FilterSil Quantity: 3-50 lbs bags <b>FILTER PACK SEAL</b> Interval: 68.7'-72.1' Type: 3/8" Uncoated Pel-Plug Quantity: 1-5 gallon bucket <b>ANNULUS SEAL</b> Interval: 0'-68.7' Type: AquaGuard Bentonite Grout Quantity: Approximately 80 gallons  <b>NOTES</b>
10		10.00 - 15.00 (ML), SILT; tan to brown, trace fine to coarse sand, moist to wet, soft, low plasticity, w<PI, saprolite	ML		10.00	1	ROTO SONIC	10.00 10.00		
15		15.00 - 20.00 (ML), SILT; gray and green to brown, low plasticity, w<PL, moist, soft to firm	ML		15.00					
20		20.00 - 26.00 (ML), SILT; gray and green to brown, low plasticity, w<PL, moist, soft to firm, more saprolitic	ML		20.00	2	ROTO SONIC	8.00 8.00		
26		26.00 - 27.00 (TWR), TRANSITIONALLY WEATHERED ROCK; silt, gray and green to brown, low plasticity, w<PL, moist, soft to firm, saprolitic, locally contains gravels of augen biotite gneiss	TWR		26.00					
27		27.00 - 34.00 (GNEISS), BEDROCK; quartz, feldspar, biotite, white to dark gray, moderately weathered, medium strong, iron staining, locally contains augened feldspars	BR		27.00	3	ROTO SONIC	1.00 2.00		
34		34.00 - 51.50 (GNEISS), BEDROCK; biotite, quartz, feldspar, white to light gray, well foliated, poorly jointed, fresh to slightly weathered, medium strong, iron staining, locally contains K-spar augens	BR		34.00	4	ROTO SONIC	2.20 4.00		
35						5	ROTO SONIC	1.70 6.00		
45						6	ROTO SONIC	10.00 10.00		
50		Log continued on next page								

BOREHOLE RECORD: MCDONOUGH MASTER LIST (2) (3) (1).GPJ PIEDMONT.GDT 2/10/21

LOG SCALE: 1 in = 6.5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Fred Dorse

GA INSPECTOR: Michael Boatman, PG  
 CHECKED BY: Timothy Richards, PG  
 DATE: 2/3/21



# RECORD OF BOREHOLE B-111D

SHEET 2 of 2

PROJECT: Plant McDonough  
 PROJECT NUMBER: 1668496.18  
 DRILLED DEPTH: 85.00 ft  
 LOCATION: West of DGWC-5

DRILL RIG: Geoprobe 8140LC  
 DATE STARTED: 11/1/20  
 DATE COMPLETED: 11/3/20

NORTHING: 1394303.4  
 EASTING: 2202956.4  
 GS ELEVATION: 789.1 ft  
 TOC ELEVATION: 791.87 ft

DEPTH W.L.: 8.9  
 ELEVATION W.L.: 755.30  
 DATE W.L.: 11/3/2020  
 TIME W.L.: 0815

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
50			BR		51.50				<p><b>B-111D</b>                      Borehole Diameter: 6"  <b>WELL CASING</b>                      Interval: 0'-85'                      Material: Schedule 40 PVC                      Diameter: 2"                      Joint Type: Screw fit with rubber seam  <b>WELL SCREEN</b>                      Interval: 74.15'-84.15'                      Material: Schedule 40 PVC                      Diameter: 2"                      Slot Size: .010"                      End Cap: Schedule 40 PVC  <b>FILTER PACK</b>                      Interval: 72.1'-84.15'                      Type: FilterSil                      Quantity: 3-5 lbs bags  <b>FILTER PACK SEAL</b>                      Interval: 68.7'-72.1'                      Type: 3/8" Uncoated Pel-Plug                      Quantity: 1-5 gallon bucket  <b>ANNULUS SEAL</b>                      Interval: 0'-68.7'                      Type: AquaGuard Bentonite Grout                      Quantity: Approximately 80 gallons</p> <p><b>NOTES</b></p>
55		51.50 - 58.00 (GNEISS), BEDROCK; feldspar, quartz, biotite, white to light gray, well foliated, poorly jointed, fresh to slightly weathered, medium strong, locally contains epidote	BR			7	ROTO SONIC 7.00 10.00		
60		58.00 - 85.00 (GNEISS), BEDROCK; biotite, feldspar, quartz, white to light gray, well foliated, poorly jointed, fresh to slightly weathered, medium to strong,	BR		58.00				
65						8	ROTO SONIC 5.00 5.00		
70						9	ROTO SONIC 5.00 5.00		
75						10	ROTO SONIC 5.00 5.00		
80						11	ROTO SONIC 10.00 10.00		
85		Boring completed at 85.00 ft							
90									
95									
100									

BOREHOLE RECORD MCDONOUGH MASTER LIST (2) (3) (1).GPJ PIEDMONT.GDT 2/10/21

LOG SCALE: 1 in = 6.5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Fred Dorse

GA INSPECTOR: Michael Boatman, PG  
 CHECKED BY: Timothy Richards, PG  
 DATE: 2/3/21



# RECORD OF BOREHOLE B-115D

SHEET 1 of 2

PROJECT: Plant McDonough  
 PROJECT NUMBER: 166849621  
 DRILLED DEPTH: 80.00 ft  
 LOCATION: South of overflow parking

DRILL RIG: TSi 150CC  
 DATE STARTED: 3/19/21  
 DATE COMPLETED: 3/20/21

NORTHING: 1,391,265.3  
 EASTING: 2,202,580.7  
 GS ELEVATION: 786.4  
 TOC ELEVATION: 789.17 ft

DEPTH W.L.: 19.32  
 ELEVATION W.L.: 769.85  
 DATE W.L.: 4/7/2021  
 TIME W.L.: 14:15

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			PIEZOMETER DIAGRAM and NOTES	PIEZOMETER CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO	REC		
0	785	0.00 - 10.00 FILL- Backfilled with cuttings from air knife clearance								<p><b>WELL CASING</b> Interval: 0-69.2' Material: Schedule 40 PVC Diameter: 2" Joint Type: Flush/Screw</p> <p><b>WELL SCREEN</b> Interval: 69.2-79.2' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: 79.2-79.5'</p> <p><b>FILTER PACK</b> Interval: 66.7-79.5' Type: #1 Filter Sand Quantity: 4 - 50 lbs bags</p> <p><b>FILTER PACK SEAL</b> Interval: 62.5-66.7' Type: 3/8" Uncoated Pel-Plug Quantity: 1 - 5 gallon bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0-62.5' Type: AquaGuard Bentonite Grout Quantity: Approximately 100 gallons</p> <p><b>WELL COMPLETION</b> Pad: 4'x4'x4" Concrete Protective Casing: 4"x4" Aluminium</p> <p><b>DRILLING METHODS</b> Soil Drill: Rotasonic (6 inch casing by 4 inch core barrel) Rock Drill: Rotasonic Sample Type: Rotasonic</p>
5	780				776.4	10.00	Air Knife	0.00 10.00		
10	775	10.00 - 13.00 CL, Silty CLAY with trace organics, low to moderate plasticity; dark brown; fill; soft to firm, moist, W<PL	CL		773.4	13.00				
15	770	13.00 - 18.00 SC, Clayey SAND, low plasticity, fine to coarse; dark red brown to red brown; fill; soft/loose, dry to moist, W<PL	SC		768.4	18.00	1	10.00 10.00		
20	765	18.00 - 20.00 ML, Clayey SILT, low plasticity; tan; soft, moist, W<PL	ML		766.4	20.00				
25	760	20.00 - 25.00 TWR, Transitional Weathered Rock; breaks down to a ML, Sandy SILT with trace cobbles, non to low plasticity; light brown to brown; soft/loose, moist, W<PL	TWR		761.4	25.00	2	8.50 10.00		
30	755	25.00 - 30.00 Highly to moderately weathered, well foliated, well jointed, dark gray to black, fine to medium grained, very weak to weak, muscovite SCHIST; locally is water stained	BR		756.4	30.00	3	7.50 10.00	AquaGuard Grout	
35	750	30.00 - 50.00 Fresh to moderately weathered, well foliated, well jointed, green to gray to black, fine to medium grained, very weak to medium strong, muscovite SCHIST; locally interlayered with an epidote-quartz-muscovite schistose GNEISS	BR							
40		Log continued on next page								

BOREHOLE RECORD: 166849621.GPJ\_PIEDMONT.GDT: 5/24/21

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Tommy Ardito

INSPECTOR: Michael Boatman, PG  
 CHECKED BY: Rachel Kirkman, PG  
 DATE: 5/24/21



# RECORD OF BOREHOLE B-115D

SHEET 2 of 2

PROJECT: Plant McDonough  
 PROJECT NUMBER: 166849621  
 DRILLED DEPTH: 80.00 ft  
 LOCATION: South of overflow parking

DRILL RIG: TSi 150CC  
 DATE STARTED: 3/19/21  
 DATE COMPLETED: 3/20/21

NORTHING: 1,391,265.3  
 EASTING: 2,202,580.7  
 GS ELEVATION: 786.4  
 TOC ELEVATION: 789.17 ft

DEPTH W.L.: 19.32  
 ELEVATION W.L.: 769.85  
 DATE W.L.: 4/7/2021  
 TIME W.L.: 14:15

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			PIEZOMETER DIAGRAM and NOTES	PIEZOMETER CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	PHOTO	REC		
40	745	30.00 - 50.00 Fresh to moderately weathered, well foliated, well jointed, green to gray to black, fine to medium grained, very weak to medium strong, muscovite SCHIST; locally interlayered with an epidote-quartz-muscovite schistose GNEISS (Continued)	BR	[Graphic Log Pattern]	736.4 50.00	4	[Photo]	6.50 10.00	<p><b>WELL CASING</b> Interval: 0-69.2' Material: Schedule 40 PVC Diameter: 2" Joint Type: Flush/Screw</p> <p><b>WELL SCREEN</b> Interval: 69.2-79.2' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: 79.2-79.5'</p> <p><b>FILTER PACK</b> Interval: 66.7-79.5' Type: #1 Filter Sand Quantity: 4 - 50 lbs bags</p> <p><b>FILTER PACK SEAL</b> Interval: 62.5-66.7' Type: 3/8" Uncoated Pel-Plug Quantity: 1 - 5 gallon bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0-62.5' Type: AquaGuard Bentonite Grout Quantity: Approximately 100 gallons</p> <p><b>WELL COMPLETION</b> Pad: 4'x4' Concrete Protective Casing: 4" x 4" Aluminium</p> <p><b>DRILLING METHODS</b> Soil Drill: Rotasonic (6 inch casing by 4 inch core barrel) Rock Drill: Rotasonic Sample Type: Rotasonic</p>	<p><b>WELL CASING</b> Interval: 0-69.2' Material: Schedule 40 PVC Diameter: 2" Joint Type: Flush/Screw</p> <p><b>WELL SCREEN</b> Interval: 69.2-79.2' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: 79.2-79.5'</p> <p><b>FILTER PACK</b> Interval: 66.7-79.5' Type: #1 Filter Sand Quantity: 4 - 50 lbs bags</p> <p><b>FILTER PACK SEAL</b> Interval: 62.5-66.7' Type: 3/8" Uncoated Pel-Plug Quantity: 1 - 5 gallon bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0-62.5' Type: AquaGuard Bentonite Grout Quantity: Approximately 100 gallons</p> <p><b>WELL COMPLETION</b> Pad: 4'x4' Concrete Protective Casing: 4" x 4" Aluminium</p> <p><b>DRILLING METHODS</b> Soil Drill: Rotasonic (6 inch casing by 4 inch core barrel) Rock Drill: Rotasonic Sample Type: Rotasonic</p>
45	740									
50	735	50.00 - 70.00 Fresh to slightly weathered, well foliated, well jointed, light gray to green, fine to medium grained, weak to strong, chlorite-quartz-muscovite SCHIST								
55	730									
60	725		BR							
65	720							Bentonite Seal		
70	715	70.00 - 80.00 Fresh to Slightly weathered, weak to moderately foliated, poorly jointed, gray to black, fine grained, medium strong to strong, quartz-biotite-muscovite SCHIST; locally contains pyrite and garnets			716.4 70.00			8.00 10.00		
75	710		BR					10.00 10.00	0.010" Slotted Schedule 40 PVC	
80		Boring completed at 80.00 ft			706.4				Sump	

BOREHOLE RECORD: 166849621.GPJ\_PIEDMONT.GDT: 5/24/21

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Tommy Ardito

INSPECTOR: Michael Boatman, PG  
 CHECKED BY: Rachel Kirkman, PG  
 DATE: 5/24/21



**APPENDIX B**

# Analytical Laboratory Reports



May 14, 2021

Joju Abraham  
Georgia Power-CCR  
2480 Maner Road  
Atlanta, GA 30339

RE: Project: PLANT MCDONOUGH AP-1  
Pace Project No.: 92532118

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on April 08, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring  
kevin.herring@pacelabs.com  
1(704)875-9092  
HORIZON Database Administrator

Enclosures

cc: Joe Booth, Resolute Environmental & Water Resources  
Trent Godwin, Resolute Environmental & Water Resources  
Kristen Jurinko  
Ms. Lauren Petty, Southern Company  
Kevin Stephenson, Resolute Environmental & Water  
Resources Consulting, LLC  
Stephen Wilson, Resolute Environmental & Water  
Resources Consulting, LLC



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: PLANT MCDONOUGH AP-1  
Pace Project No.: 92532118

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### Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 04222CA  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
Delaware Certification  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Florida: Cert E871149 SEKS WET  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas/TNI Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA180012  
Louisiana DEQ/TNI Certification #: 4086  
Maine Certification #: 2017020  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572018-1  
New Hampshire/TNI Certification #: 297617  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-010  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: 02867  
Texas/TNI Certification #: T104704188-17-3  
Utah/TNI Certification #: PA014572017-9  
USDA Soil Permit #: P330-17-00091  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 9526  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad  
Wyoming Certification #: 8TMS-L

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### SAMPLE SUMMARY

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92532118001	B-104D 56.5-57'	Solid	04/08/21 12:00	04/08/21 14:56
92532118002	B-109D 92.5-93'	Solid	04/08/21 12:05	04/08/21 14:56
92532118003	B-111D 82-82.5'	Solid	04/08/21 12:10	04/08/21 14:56
92532118004	B-115D 70.9-71.4'	Solid	04/08/21 12:15	04/08/21 14:56
92532118005	B-116D 88-88.25'	Solid	04/08/21 12:20	04/08/21 14:56
92532118006	B-117D 67-67.5'	Solid	04/08/21 12:25	04/08/21 14:56
92532118007	B-119D 101-101.4'	Solid	04/08/21 12:30	04/08/21 14:56

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### SAMPLE ANALYTE COUNT

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

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Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92532118001	B-104D 56.5-57'	EPA 901.1	MAH	6	PASI-PA
92532118002	B-109D 92.5-93'	EPA 901.1	MAH	6	PASI-PA
92532118003	B-111D 82-82.5'	EPA 901.1	MAH	6	PASI-PA
92532118004	B-115D 70.9-71.4'	EPA 901.1	MAH	6	PASI-PA
92532118005	B-116D 88-88.25'	EPA 901.1	MAH	6	PASI-PA
92532118006	B-117D 67-67.5'	EPA 901.1	MAH	6	PASI-PA
92532118007	B-119D 101-101.4'	EPA 901.1	MAH	6	PASI-PA

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PASI-PA = Pace Analytical Services - Greensburg

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### SUMMARY OF DETECTION

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92532118001</b>	<b>B-104D 56.5-57'</b>					
EPA 901.1	Radium-226	2.092 ± 0.499 (0.307) C:NA T:NA	pCi/g		05/06/21 15:24	Ra
EPA 901.1	Radium-228	1.929 ± 0.628 (0.658) C:NA T:NA	pCi/g		05/06/21 15:24	
EPA 901.1	Thorium-232	30.535 ± 97.930 (121.200) C:NA T:NA	pCi/g		05/06/21 15:24	
EPA 901.1	Thorium-234	2.382 ± 5.443 (6.737) C:NA T:NA	pCi/g		05/06/21 15:24	
EPA 901.1	Uranium-235	0.000 ± 0.963 (2.546) C:NA T:NA	pCi/g		05/06/21 15:24	
EPA 901.1	Uranium-238	14.981 ± 18.556 (17.580) C:NA T:NA	pCi/g		05/06/21 15:24	
<b>92532118002</b>	<b>B-109D 92.5-93'</b>					
EPA 901.1	Radium-226	1.062 ± 0.248 (0.149) C:NA T:NA	pCi/g		05/06/21 15:25	Ra
EPA 901.1	Radium-228	1.612 ± 0.328 (0.257) C:NA T:NA	pCi/g		05/06/21 15:25	
EPA 901.1	Thorium-232	0.000 ± 15.879 (35.880) C:NA T:NA	pCi/g		05/06/21 15:25	
EPA 901.1	Thorium-234	1.868 ± 1.351 (1.678) C:NA T:NA	pCi/g		05/06/21 15:25	
EPA 901.1	Uranium-235	0.000 ± 0.816 (1.401) C:NA T:NA	pCi/g		05/06/21 15:25	
EPA 901.1	Uranium-238	5.079 ± 12.720 (14.300) C:NA T:NA	pCi/g		05/06/21 15:25	
<b>92532118003</b>	<b>B-111D 82-82.5'</b>					
EPA 901.1	Radium-226	1.296 ± 0.310 (0.241) C:NA T:NA	pCi/g		05/06/21 15:56	Ra

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### SUMMARY OF DETECTION

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92532118003</b>	<b>B-111D 82-82.5'</b>					
EPA 901.1	Radium-228	1.440 ± 0.518 (0.681) C:NA T:NA	pCi/g		05/06/21 15:56	
EPA 901.1	Thorium-232	40.530 ± 63.887 (77.770) C:NA T:NA	pCi/g		05/06/21 15:56	
EPA 901.1	Thorium-234	1.785 ± 3.710 (4.578) C:NA T:NA	pCi/g		05/06/21 15:56	
EPA 901.1	Uranium-235	0.568 ± 1.526 (1.740) C:NA T:NA	pCi/g		05/06/21 15:56	
EPA 901.1	Uranium-238	0.000 ± 5.574 (19.140) C:NA T:NA	pCi/g		05/06/21 15:56	
<b>92532118004</b>	<b>B-115D 70.9-71.4'</b>					
EPA 901.1	Radium-226	1.518 ± 0.291 (0.260) C:NA T:NA	pCi/g		05/06/21 15:58	Ra
EPA 901.1	Radium-228	2.297 ± 0.463 (0.292) C:NA T:NA	pCi/g		05/06/21 15:58	
EPA 901.1	Thorium-232	25.865 ± 22.768 (36.310) C:NA T:NA	pCi/g		05/06/21 15:58	
EPA 901.1	Thorium-234	0.831 ± 1.366 (2.265) C:NA T:NA	pCi/g		05/06/21 15:58	
EPA 901.1	Uranium-235	0.161 ± 1.217 (1.528) C:NA T:NA	pCi/g		05/06/21 15:58	
EPA 901.1	Uranium-238	0.922 ± 17.282 (19.570) C:NA T:NA	pCi/g		05/06/21 15:58	
<b>92532118005</b>	<b>B-116D 88-88.25'</b>					
EPA 901.1	Radium-226	1.344 ± 0.346 (0.220) C:NA T:NA	pCi/g		05/06/21 16:34	Ra
EPA 901.1	Radium-228	1.777 ± 0.536 (0.474) C:NA T:NA	pCi/g		05/06/21 16:34	

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### SUMMARY OF DETECTION

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92532118005</b>	<b>B-116D 88-88.25'</b>					
EPA 901.1	Thorium-232	0.000 ± 33.838 (77.080) C:NA T:NA	pCi/g		05/06/21 16:34	
EPA 901.1	Thorium-234	0.000 ± 1.927 (4.422) C:NA T:NA	pCi/g		05/06/21 16:34	
EPA 901.1	Uranium-235	0.032 ± 1.441 (1.662) C:NA T:NA	pCi/g		05/06/21 16:34	
EPA 901.1	Uranium-238	6.984 ± 15.413 (14.130) C:NA T:NA	pCi/g		05/06/21 16:34	
<b>92532118006</b>	<b>B-117D 67-67.5'</b>					
EPA 901.1	Radium-226	1.297 ± 0.322 (0.173) C:NA T:NA	pCi/g		05/06/21 17:06	Ra
EPA 901.1	Radium-228	1.431 ± 0.433 (0.200) C:NA T:NA	pCi/g		05/06/21 17:06	
EPA 901.1	Thorium-232	0.000 ± 41.225 (100.100) C:NA T:NA	pCi/g		05/06/21 17:06	
EPA 901.1	Thorium-234	0.000 ± 2.347 (5.994) C:NA T:NA	pCi/g		05/06/21 17:06	
EPA 901.1	Uranium-235	0.845 ± 1.424 (1.634) C:NA T:NA	pCi/g		05/06/21 17:06	
EPA 901.1	Uranium-238	0.295 ± 19.653 (18.960) C:NA T:NA	pCi/g		05/06/21 17:06	
<b>92532118007</b>	<b>B-119D 101-101.4'</b>					
EPA 901.1	Radium-226	1.892 ± 0.320 (0.204) C:NA T:NA	pCi/g		05/06/21 16:35	Ra
EPA 901.1	Radium-228	1.928 ± 0.421 (0.206) C:NA T:NA	pCi/g		05/06/21 16:35	
EPA 901.1	Thorium-232	18.394 ± 35.121 (44.700) C:NA T:NA	pCi/g		05/06/21 16:35	

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### SUMMARY OF DETECTION

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92532118007</b>	<b>B-119D 101-101.4'</b>					
EPA 901.1	Thorium-234	0.000 ± 1.622 (2.771) C:NA T:NA	pCi/g		05/06/21 16:35	
EPA 901.1	Uranium-235	0.000 ± 0.575 (1.461) C:NA T:NA	pCi/g		05/06/21 16:35	
EPA 901.1	Uranium-238	10.618 ± 9.175 (9.480) C:NA T:NA	pCi/g		05/06/21 16:35	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

**Sample: B-104D 56.5-57'**      **Lab ID: 92532118001**      Collected: 04/08/21 12:00      Received: 04/08/21 14:56      Matrix: Solid  
 PWS:      Site ID:      Sample Type:

**Results reported on a "dry-weight" basis**

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 901.1	<b>2.092 ± 0.499 (0.307)</b> C:NA T:NA	pCi/g	05/06/21 15:24	13982-63-3	Ra
Radium-228	EPA 901.1	<b>1.929 ± 0.628 (0.658)</b> C:NA T:NA	pCi/g	05/06/21 15:24	15262-20-1	
Thorium-232	EPA 901.1	<b>30.535 ± 97.930 (121.200)</b> C:NA T:NA	pCi/g	05/06/21 15:24	7440-29-1	
Thorium-234	EPA 901.1	<b>2.382 ± 5.443 (6.737)</b> C:NA T:NA	pCi/g	05/06/21 15:24	15065-10-8	
Uranium-235	EPA 901.1	<b>0.000 ± 0.963 (2.546)</b> C:NA T:NA	pCi/g	05/06/21 15:24	15117-96-1	
Uranium-238	EPA 901.1	<b>14.981 ± 18.556 (17.580)</b> C:NA T:NA	pCi/g	05/06/21 15:24		

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

**Sample: B-109D 92.5-93'**      **Lab ID: 92532118002**      Collected: 04/08/21 12:05      Received: 04/08/21 14:56      Matrix: Solid  
 PWS:      Site ID:      Sample Type:

**Results reported on a "dry-weight" basis**

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 901.1	<b>1.062 ± 0.248 (0.149)</b> C:NA T:NA	pCi/g	05/06/21 15:25	13982-63-3	Ra
Radium-228	EPA 901.1	<b>1.612 ± 0.328 (0.257)</b> C:NA T:NA	pCi/g	05/06/21 15:25	15262-20-1	
Thorium-232	EPA 901.1	<b>0.000 ± 15.879 (35.880)</b> C:NA T:NA	pCi/g	05/06/21 15:25	7440-29-1	
Thorium-234	EPA 901.1	<b>1.868 ± 1.351 (1.678)</b> C:NA T:NA	pCi/g	05/06/21 15:25	15065-10-8	
Uranium-235	EPA 901.1	<b>0.000 ± 0.816 (1.401)</b> C:NA T:NA	pCi/g	05/06/21 15:25	15117-96-1	
Uranium-238	EPA 901.1	<b>5.079 ± 12.720 (14.300)</b> C:NA T:NA	pCi/g	05/06/21 15:25		

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

**Sample: B-111D 82-82.5'**      **Lab ID: 92532118003**      Collected: 04/08/21 12:10      Received: 04/08/21 14:56      Matrix: Solid  
 PWS:      Site ID:      Sample Type:

**Results reported on a "dry-weight" basis**

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 901.1	<b>1.296 ± 0.310 (0.241)</b> C:NA T:NA	pCi/g	05/06/21 15:56	13982-63-3	Ra
Radium-228	EPA 901.1	<b>1.440 ± 0.518 (0.681)</b> C:NA T:NA	pCi/g	05/06/21 15:56	15262-20-1	
Thorium-232	EPA 901.1	<b>40.530 ± 63.887 (77.770)</b> C:NA T:NA	pCi/g	05/06/21 15:56	7440-29-1	
Thorium-234	EPA 901.1	<b>1.785 ± 3.710 (4.578)</b> C:NA T:NA	pCi/g	05/06/21 15:56	15065-10-8	
Uranium-235	EPA 901.1	<b>0.568 ± 1.526 (1.740)</b> C:NA T:NA	pCi/g	05/06/21 15:56	15117-96-1	
Uranium-238	EPA 901.1	<b>0.000 ± 5.574 (19.140)</b> C:NA T:NA	pCi/g	05/06/21 15:56		

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

**Sample:** B-115D 70.9-71.4'      **Lab ID:** 92532118004      Collected: 04/08/21 12:15      Received: 04/08/21 14:56      Matrix: Solid  
**PWS:**      Site ID:      Sample Type:

**Results reported on a "dry-weight" basis**

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 901.1	<b>1.518 ± 0.291 (0.260)</b> C:NA T:NA	pCi/g	05/06/21 15:58	13982-63-3	Ra
Radium-228	EPA 901.1	<b>2.297 ± 0.463 (0.292)</b> C:NA T:NA	pCi/g	05/06/21 15:58	15262-20-1	
Thorium-232	EPA 901.1	<b>25.865 ± 22.768 (36.310)</b> C:NA T:NA	pCi/g	05/06/21 15:58	7440-29-1	
Thorium-234	EPA 901.1	<b>0.831 ± 1.366 (2.265)</b> C:NA T:NA	pCi/g	05/06/21 15:58	15065-10-8	
Uranium-235	EPA 901.1	<b>0.161 ± 1.217 (1.528)</b> C:NA T:NA	pCi/g	05/06/21 15:58	15117-96-1	
Uranium-238	EPA 901.1	<b>0.922 ± 17.282 (19.570)</b> C:NA T:NA	pCi/g	05/06/21 15:58		

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

**Sample: B-116D 88-88.25'**      **Lab ID: 92532118005**      Collected: 04/08/21 12:20      Received: 04/08/21 14:56      Matrix: Solid  
 PWS:      Site ID:      Sample Type:

**Results reported on a "dry-weight" basis**

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 901.1	<b>1.344 ± 0.346 (0.220)</b> C:NA T:NA	pCi/g	05/06/21 16:34	13982-63-3	Ra
Radium-228	EPA 901.1	<b>1.777 ± 0.536 (0.474)</b> C:NA T:NA	pCi/g	05/06/21 16:34	15262-20-1	
Thorium-232	EPA 901.1	<b>0.000 ± 33.838 (77.080)</b> C:NA T:NA	pCi/g	05/06/21 16:34	7440-29-1	
Thorium-234	EPA 901.1	<b>0.000 ± 1.927 (4.422)</b> C:NA T:NA	pCi/g	05/06/21 16:34	15065-10-8	
Uranium-235	EPA 901.1	<b>0.032 ± 1.441 (1.662)</b> C:NA T:NA	pCi/g	05/06/21 16:34	15117-96-1	
Uranium-238	EPA 901.1	<b>6.984 ± 15.413 (14.130)</b> C:NA T:NA	pCi/g	05/06/21 16:34		

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

**Sample: B-117D 67-67.5'**      **Lab ID: 92532118006**      Collected: 04/08/21 12:25      Received: 04/08/21 14:56      Matrix: Solid  
 PWS:      Site ID:      Sample Type:

**Results reported on a "dry-weight" basis**

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 901.1	<b>1.297 ± 0.322 (0.173)</b> C:NA T:NA	pCi/g	05/06/21 17:06	13982-63-3	Ra
Radium-228	EPA 901.1	<b>1.431 ± 0.433 (0.200)</b> C:NA T:NA	pCi/g	05/06/21 17:06	15262-20-1	
Thorium-232	EPA 901.1	<b>0.000 ± 41.225 (100.100)</b> C:NA T:NA	pCi/g	05/06/21 17:06	7440-29-1	
Thorium-234	EPA 901.1	<b>0.000 ± 2.347 (5.994)</b> C:NA T:NA	pCi/g	05/06/21 17:06	15065-10-8	
Uranium-235	EPA 901.1	<b>0.845 ± 1.424 (1.634)</b> C:NA T:NA	pCi/g	05/06/21 17:06	15117-96-1	
Uranium-238	EPA 901.1	<b>0.295 ± 19.653 (18.960)</b> C:NA T:NA	pCi/g	05/06/21 17:06		

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

**Sample: B-119D 101-101.4'**      **Lab ID: 92532118007**      Collected: 04/08/21 12:30      Received: 04/08/21 14:56      Matrix: Solid  
 PWS:      Site ID:      Sample Type:

**Results reported on a "dry-weight" basis**

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 901.1	<b>1.892 ± 0.320 (0.204)</b> C:NA T:NA	pCi/g	05/06/21 16:35	13982-63-3	Ra
Radium-228	EPA 901.1	<b>1.928 ± 0.421 (0.206)</b> C:NA T:NA	pCi/g	05/06/21 16:35	15262-20-1	
Thorium-232	EPA 901.1	<b>18.394 ± 35.121 (44.700)</b> C:NA T:NA	pCi/g	05/06/21 16:35	7440-29-1	
Thorium-234	EPA 901.1	<b>0.000 ± 1.622 (2.771)</b> C:NA T:NA	pCi/g	05/06/21 16:35	15065-10-8	
Uranium-235	EPA 901.1	<b>0.000 ± 0.575 (1.461)</b> C:NA T:NA	pCi/g	05/06/21 16:35	15117-96-1	
Uranium-238	EPA 901.1	<b>10.618 ± 9.175 (9.480)</b> C:NA T:NA	pCi/g	05/06/21 16:35		

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

QC Batch: 444911	Analysis Method: EPA 901.1
QC Batch Method: EPA 901.1	Analysis Description: 901.1 Gamma Spec Ingrowth
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92532118001, 92532118002, 92532118003, 92532118004, 92532118005

METHOD BLANK: 2147795 Matrix: Solid

Associated Lab Samples: 92532118001, 92532118002, 92532118003, 92532118004, 92532118005, 92532118006, 92532118007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.039 ± 0.069 (0.117) C:NA T:NA	pCi/g	04/27/21 13:30	Ra
Radium-228	0.042 ± 0.087 (0.195) C:NA T:NA	pCi/g	04/27/21 13:30	
Thorium-232	4.826 ± 10.987 (15.230) C:NA T:NA	pCi/g	04/27/21 13:30	
Thorium-234	0.021 ± 0.700 (1.011) C:NA T:NA	pCi/g	04/27/21 13:30	
Uranium-235	0.040 ± 0.068 (0.713) C:NA T:NA	pCi/g	04/27/21 13:30	
Uranium-238	3.072 ± 3.895 (6.635) C:NA T:NA	pCi/g	04/27/21 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.

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## QUALIFIERS

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

Ra The reported Ra-226 results were determined by hermetically sealing the dried, processed sample in an appropriate-sized can. Each sample was stored for a minimum of 21 days to ensure that equilibrium between Ra-226 and daughters Bi-214 and Pb-214 was achieved. Reported Ra-226 results were inferred from gamma peaks attributable to Bi-214 and Pb-214.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT MCDONOUGH AP-1

Pace Project No.: 92532118

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92532118001	B-104D 56.5-57'	EPA 901.1	444911		
92532118002	B-109D 92.5-93'	EPA 901.1	444911		
92532118003	B-111D 82-82.5'	EPA 901.1	444911		
92532118004	B-115D 70.9-71.4'	EPA 901.1	444911		
92532118005	B-116D 88-88.25'	EPA 901.1	444911		
92532118006	B-117D 67-67.5'	EPA 901.1	444911		
92532118007	B-119D 101-101.4'	EPA 901.1	444911		

### REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition:  
Upon Receipt

Client Name:  
*GA Power*

Project #:

WO#: 92532118



Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: *4/8/14*

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  IR Gun ID: *214* Type of Ice:  Wet  Dry  Dry

Cooler Temp: *22.0* Correction Factor: Add/Subtract (°C) *+0.1*

Temp should be above freezing to 6°C  
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): *22.1*

USDA Regulated Soil (  N/A, water sample)  
 Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used? -Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	<i>250ml Glass Mason Jars</i>
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample labels Match CDC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix:	<i>SL</i>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_

Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_

Date: \_\_\_\_\_





### Gamma Spec Quality Control Sample Performance Assessment

Date: 11/11/2011  
 Time: 10:00 AM  
 Location: 4000 S. 100th St.  
 Operator: [Name]  
 Instrument: [Model]  
 Sample ID: [ID]

Sample ID	Activity (Bq)	Count Rate (cps)	Efficiency (%)	Geometry
1	1000	100	10	Point
2	2000	200	10	Point
3	3000	300	10	Point
4	4000	400	10	Point
5	5000	500	10	Point
6	6000	600	10	Point
7	7000	700	10	Point
8	8000	800	10	Point
9	9000	900	10	Point
10	10000	1000	10	Point

Sample ID	Activity (Bq)	Count Rate (cps)	Efficiency (%)	Geometry
11	11000	1100	10	Point
12	12000	1200	10	Point
13	13000	1300	10	Point
14	14000	1400	10	Point
15	15000	1500	10	Point
16	16000	1600	10	Point
17	17000	1700	10	Point
18	18000	1800	10	Point
19	19000	1900	10	Point
20	20000	2000	10	Point

Sample ID	Activity (Bq)	Count Rate (cps)	Efficiency (%)	Geometry
21	21000	2100	10	Point
22	22000	2200	10	Point
23	23000	2300	10	Point
24	24000	2400	10	Point
25	25000	2500	10	Point
26	26000	2600	10	Point
27	27000	2700	10	Point
28	28000	2800	10	Point
29	29000	2900	10	Point
30	30000	3000	10	Point

Sample ID	Activity (Bq)	Count Rate (cps)	Efficiency (%)	Geometry
31	31000	3100	10	Point
32	32000	3200	10	Point
33	33000	3300	10	Point
34	34000	3400	10	Point
35	35000	3500	10	Point
36	36000	3600	10	Point
37	37000	3700	10	Point
38	38000	3800	10	Point
39	39000	3900	10	Point
40	40000	4000	10	Point

Operator: [Name] Date: 11/11/2011 Time: 10:00 AM Location: 4000 S. 100th St.

[Signature]  
 [Name]  
 [Title]

**APPENDIX C**

# Groundwater Sampling Field Data Forms

**PURGING AND SAMPLING FORM**

Project #: 166849621	Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>
Well ID #: <u>B-104D</u>	Date: <u>09/14/21</u>	Water Level (ft): <u>5.78</u>	Time (WL): <u>1555</u>
Physical Condition of Well: <u>Good</u>	Weather: <u>Partly Cloudy</u>		
Well Diameter (in): 2	Well Depth (ft): <u>60</u>	Water Column (ft): <u>54.22</u>	Well Volume (gal): 8.84
Start Purge: <u>1610</u>	End Purge: <u>1645</u>	Top of Pump (ft): <u>55</u>	
Evacuation Method: Low-Flow	Volume Removed (L): <u>3.5 L</u>		
Evacuation Equipment: <u>QED</u>	Purging Personnel: <u>E. Rheans</u>		
SmarTroll serial #: <u>850751</u>	LaMotte serial #: <u>1603-441</u>		

**Purge Data/Field Parameters**

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>1645</u>	<u>Clear</u>	<u>None</u>	<u>6.58</u>	<u>1037.6</u>	<u>0.40</u>	<u>27.06</u>	<u>105.5</u>	<u>2.17</u>	<u>8.61</u>	<u>100.2</u>
			<u>Sampled @ 1645</u>							

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

**Sample Description**

Sample ID: B-104D      Sample Date/Time: 09/14/21 1645      Metals Date/Time: 09/14/21 1645  
 Duplicate: \_\_\_\_\_      Dup Date/Time: \_\_\_\_\_      Final Turbidity NTU: 2.17  
 Field Blank: \_\_\_\_\_      Blank Date/Time: \_\_\_\_\_      Turbidity Date/Time: 09/14/21 1645

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	250 mL plastic	HNO3	Metals App III/ IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)
<u>1</u>	250 mL plastic	--	Chloride, Fluoride, Sulfate
<u>1</u>	500 mL plastic	--	TDS
<u>2</u>	1 L plastic	HNO3	Radium 226/228

Signature: E. Rheans



# Low-Flow Test Report:

Test Date / Time: 9/14/2021 4:10:27 PM

Project: Plant McDonough (19)

Operator Name: Erik Rheams

<b>Location Name: B-104D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 50 ft</b> <b>Total Depth: 60 ft</b> <b>Initial Depth to Water: 5.78 ft</b>	<b>Pump Type: Dedicated bladder</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 55 ft</b> <b>Estimated Total Volume Pumped: 3500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 2.83 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850751</b>
--	---	--

## 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	
9/14/2021 4:10 PM	00:00	6.51 pH	28.28 °C	983.32 µS/cm	1.37 mg/L	3.55 NTU	-0.7 mV	5.78 ft	100.00 ml/min
9/14/2021 4:15 PM	05:00	6.46 pH	25.97 °C	1,036.4 µS/cm	0.62 mg/L	2.46 NTU	-27.1 mV	5.95 ft	100.00 ml/min
9/14/2021 4:20 PM	10:00	6.49 pH	25.28 °C	1,035.4 µS/cm	0.48 mg/L	2.16 NTU	-50.9 mV	6.60 ft	100.00 ml/min
9/14/2021 4:25 PM	15:00	6.53 pH	24.88 °C	1,035.5 µS/cm	0.41 mg/L	2.20 NTU	-72.9 mV	7.29 ft	100.00 ml/min
9/14/2021 4:30 PM	20:00	6.56 pH	24.90 °C	1,039.1 µS/cm	0.36 mg/L	2.42 NTU	-82.8 mV	7.89 ft	100.00 ml/min
9/14/2021 4:35 PM	25:00	6.58 pH	25.08 °C	1,036.3 µS/cm	0.33 mg/L	2.50 NTU	-98.4 mV	8.31 ft	100.00 ml/min
9/14/2021 4:40 PM	30:00	6.58 pH	26.15 °C	1,052.6 µS/cm	0.36 mg/L	2.58 NTU	-99.2 mV	8.49 ft	100.00 ml/min
9/14/2021 4:45 PM	35:00	6.58 pH	27.06 °C	1,037.6 µS/cm	0.40 mg/L	2.17 NTU	-105.5 mV	8.61 ft	100.00 ml/min

## Samples

Sample ID:	Description:
------------	--------------



# PURGING AND SAMPLING FORM

Project #: 166849621	Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>
Well ID #: <u>B-1090</u>	Date:	Water Level (ft): <u>38.48</u>	Time (WL): <u>1154</u>
Physical Condition of Well: <u>Good</u>	Weather: <u>Clear</u>		
Well Diameter (in): 2	Well Depth (ft): <u>99</u>	Water Column (ft): 60.52	Well Volume (gal): 9.86
Start Purge: <u>1225</u>	End Purge:	Top of Pump (ft): <u>94</u>	
Evacuation Method: Low-Flow		Volume Removed (L): <u>5.88</u>	
Evacuation Equipment: <u>QED</u>		Purging Personnel: <u>F. Rheams</u>	
SmarTroll serial #: <u>850751</u>		LaMotte serial #: <u>1603-441</u>	

## Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>1305</u>	<u>Clear</u>	<u>None</u>	<u>6.86</u>	<u>314.93</u>	<u>8.50</u>	<u>27.11</u>	<u>-84.2</u>	<u>3.86</u>	<u>38.61</u>	<u>160</u>
		<u>Sampled @ 1305</u>								

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

## Sample Description

Sample ID: B-1090      Sample Date/Time: 09/10/21 1305      Metals Date/Time: 09/10/21 1305  
 Duplicate: \_\_\_\_\_      Dup Date/Time: \_\_\_\_\_      Final Turbidity NTU: 3.86  
 Field Blank: EB-3      Blank Date/Time: 9/10/21 1500      Turbidity Date/Time: 09/10/21 1305

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	250 mL plastic	HNO3	Metals App III/ IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Ti)
<u>1</u>	250 mL plastic	--	Chloride, Fluoride, Sulfate
<u>1</u>	500 mL plastic	--	TDS
<u>2</u>	1 L plastic	HNO3	Radium 226/228

Signature: 

# Low-Flow Test Report:

Test Date / Time: 9/10/2021 12:26:02 PM

Project: Plant McDonough (9)

Operator Name: Erik Rheams

<b>Location Name: B-109D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 89 ft</b> <b>Total Depth: 99 ft</b> <b>Initial Depth to Water: 38.48 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 94 ft</b> <b>Estimated Total Volume Pumped: 5880 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 160 ml/min</b> <b>Final Draw Down: 0.13 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850751</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/10/2021 12:26 PM	00:00	6.61 pH	28.83 °C	377.12 µS/cm	3.16 mg/L	6.01 NTU	-125.8 mV	38.48 ft	160.00 ml/min
9/10/2021 12:27 PM	01:45	6.67 pH	27.36 °C	365.27 µS/cm	4.07 mg/L	6.01 NTU	-118.0 mV	38.48 ft	160.00 ml/min
9/10/2021 12:32 PM	06:45	6.83 pH	25.38 °C	362.77 µS/cm	6.64 mg/L	11.20 NTU	-55.7 mV	38.56 ft	160.00 ml/min
9/10/2021 12:37 PM	11:45	6.89 pH	25.80 °C	345.76 µS/cm	7.88 mg/L	8.68 NTU	-57.7 mV	38.61 ft	160.00 ml/min
9/10/2021 12:42 PM	16:45	6.88 pH	26.42 °C	341.41 µS/cm	8.44 mg/L	8.15 NTU	-64.7 mV	38.61 ft	160.00 ml/min
9/10/2021 12:47 PM	21:45	6.87 pH	26.81 °C	333.41 µS/cm	8.63 mg/L	6.92 NTU	-77.5 mV	38.61 ft	160.00 ml/min
9/10/2021 12:52 PM	26:45	6.87 pH	26.66 °C	321.00 µS/cm	8.56 mg/L	7.46 NTU	-79.7 mV	38.61 ft	160.00 ml/min
9/10/2021 12:57 PM	31:45	6.88 pH	26.91 °C	318.32 µS/cm	8.86 mg/L	6.09 NTU	-82.6 mV	38.61 ft	160.00 ml/min
9/10/2021 1:02 PM	36:45	6.86 pH	27.11 °C	314.33 µS/cm	8.50 mg/L	3.86 NTU	-84.2 mV	38.61 ft	160.00 ml/min

## Samples

Sample ID:	Description:
B-109D	EB-3

**PURGING AND SAMPLING FORM**

Project #: 166849621	Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>
Well ID #: <u>B-111D</u>	Date: <u>09/14/21</u>	Water Level (ft): <u>11.68</u>	Time (WL): <u>15:00</u>
Physical Condition of Well: <u>GOOD</u>	Weather: <u>CLOUDY, 86°</u>		
Well Diameter (in): 2	Well Depth (ft): <u>84.26</u>	Water Column (ft): <u>72.52</u>	Well Volume (gal): <u>11.82</u>
Start Purge: <u>15:02</u>	End Purge: <u>15:37</u>	Top of Pump (ft): <u>79.60</u>	
Evacuation Method: Low-Flow		Volume Removed (L): <u>3.5</u>	
Evacuation Equipment: <u>PAGE PUMP</u>		Purging Personnel: <u>DUANE FULTON</u>	
SmarTroll serial #: <u>8.50767</u>		LaMotte serial #: <u>5990-3915</u>	

**Purge Data/Field Parameters**

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>15:37</u>	<u>CLAR</u>	<u>NONE</u>	<u>7.29</u>	<u>947.92</u>	<u>0.29</u>	<u>22.05</u>	<u>-946</u>	<u>2.12</u>	<u>12.30</u>	<u>100 mL/min</u>
<u>SAMPLES 15:37</u>										

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

**Sample Description**

Sample ID: B-111D Sample Date/Time: 09-14-21/15:37 Metals Date/Time: 09-14-21/15:37  
 Duplicate: — Dup Date/Time: — Final Turbidity NTU: 2.12  
 Field Blank: — Blank Date/Time: 09-14-21/16:35 Turbidity Date/Time: 09-14-21/15:37  
EB-4

# Sample Bottles	Container	Preservative	Analyte(s)
<u>2</u>	250 mL plastic	HNO3	Metals App III/ IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)
<u>2</u>	250 mL plastic	--	Chloride, Fluoride, Sulfate
<u>2</u>	500 mL plastic	--	TDS
<u>4</u>	1 L plastic	HNO3	Radium 226/228

Signature: Duane Fulton

NOTE: NEED TO CORRECT INITIAL DATA TO WATER ON LOW FLOW REPORT



# Low-Flow Test Report:

Test Date / Time: 9/14/2021 3:02:52 PM

Project: Plant McDonough (15)

Operator Name: D Fulton

<b>Location Name: B-111D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 74.2 ft</b> <b>Total Depth: 84.2 ft Initial</b> <b>Depth to Water: 11.68 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 79 ft</b> <b>Estimated Total Volume Pumped: 3.5 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min Final</b> <b>Draw Down: 0.62 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850767</b>
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## Test Notes:

## Weather Conditions:

Clear,85

## 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	
9/14/2021 3:02 PM	00:00	6.98 pH	31.90 °C	838.10 µS/cm	4.95 mg/L	1.20 NTU	-59.0 mV	11.89 ft	150.00 ml/min
9/14/2021 3:07 PM	05:00	7.12 pH	22.76 °C	929.76 µS/cm	0.59 mg/L	2.24 NTU	-80.2 mV	12.12 ft	100.00 ml/min
9/14/2021 3:12 PM	10:00	7.14 pH	22.27 °C	939.17 µS/cm	0.41 mg/L	1.18 NTU	-131.3 mV	12.18 ft	100.00 ml/min
9/14/2021 3:17 PM	15:00	7.14 pH	22.20 °C	941.33 µS/cm	0.34 mg/L	2.63 NTU	-87.7 mV	12.22 ft	100.00 ml/min
9/14/2021 3:22 PM	20:00	7.15 pH	22.80 °C	939.47 µS/cm	0.36 mg/L	0.96 NTU	-89.6 mV	12.23 ft	100.00 ml/min
9/14/2021 3:27 PM	25:00	7.15 pH	22.32 °C	934.33 µS/cm	0.33 mg/L	2.51 NTU	-89.8 mV	12.28 ft	100.00 ml/min
9/14/2021 3:32 PM	30:00	7.18 pH	22.14 °C	937.33 µS/cm	0.32 mg/L	2.23 NTU	-90.9 mV	12.29 ft	100.00 ml/min
9/14/2021 3:37 PM	35:00	7.29 pH	22.05 °C	947.92 µS/cm	0.29 mg/L	2.12 NTU	-94.6 mV	12.30 ft	100.00 ml/min

## Samples

Sample ID:	Description:
B-111D	EB-4

# PURGING AND SAMPLING FORM

Project #: 166849621		Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>	
Well ID #: <u>B-115D</u>	Date: <u>9/14/2021</u>	Water Level (ft): <u>19.15</u>	Time (WL): <u>1240</u>		
Physical Condition of Well: <u>open</u>		Weather: <u>87° &amp; partly cloudy</u>			
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>80'</u>	Water Column (ft): <u>60.85</u>	Well Volume (gal): <u>9.92</u>		
Start Purge: <u>1255</u>	End Purge: <u>1458</u>	Top of Pump (ft): <u>75'</u>			
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L):			
Evacuation Equipment: <u>peristaltic pump</u>		Purging Personnel: <u>Sam D'Aardt</u>			
SmarTroll serial #: <u>850724</u>		LaMotte serial #: <u>1510-4111</u>			

## Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>1359</u>	<u>quad Battery</u>									
<u>1420</u>	<u>restarted</u>									
<u>1458</u>	<u>clear</u>	<u>none</u>	<u>5.38</u>	<u>639.99</u>	<u>0.04</u>	<u>22.80</u>	<u>33.5</u>	<u>1.76</u>	<u>22.85</u>	<u>0.00</u>
<u>9/14/21</u>										

Stabilization Criteria: pH ± 0.1 S.U, Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

## Sample Description

Sample ID: B-115D Sample Date/Time: 9/14/2021 1500 Metals Date/Time: ✓  
 Duplicate: ✓ Dup Date/Time: ✓ Final Turbidity NTU: 1.76  
 Field Blank: ✓ Blank Date/Time: ✓ Turbidity Date/Time: 1458 9/14/2021

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/ IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)</u>
<u>1</u>	<u>250 mL plastic</u>	<u>--</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>1</u>	<u>500 mL plastic</u>	<u>--</u>	<u>TDS</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: [Signature]

# Low-Flow Test Report:

Test Date / Time: 9/14/2021 2:20:51 PM

Project: Plant McDonough (6)

Operator Name: E. Dhondt

<b>Location Name: B-115D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 70 ft</b> <b>Total Depth: 80 ft</b> <b>Initial Depth to Water: 19.15 ft</b>	<b>Pump Type: peristaltic</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 75 ft</b> <b>Estimated Total Volume Pumped: 9112 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 5.7 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/14/2021 2:20 PM	00:00	5.80 pH	21.76 °C	804.21 µS/cm	0.07 mg/L	3.41 NTU	32.1 mV	23.02 ft	280.00 ml/min
9/14/2021 2:25 PM	05:00	5.57 pH	21.91 °C	742.57 µS/cm	0.73 mg/L	2.79 NTU	47.9 mV	23.78 ft	280.00 ml/min
9/14/2021 2:30 PM	10:00	5.52 pH	21.80 °C	714.11 µS/cm	0.49 mg/L	2.62 NTU	45.2 mV	24.30 ft	280.00 ml/min
9/14/2021 2:35 PM	15:00	5.47 pH	21.68 °C	699.66 µS/cm	0.34 mg/L	2.45 NTU	43.3 mV	24.64 ft	280.00 ml/min
9/14/2021 2:41 PM	20:24	5.42 pH	22.09 °C	681.07 µS/cm	0.27 mg/L	2.02 NTU	47.2 mV	24.90 ft	280.00 ml/min
9/14/2021 2:46 PM	25:24	5.39 pH	21.90 °C	664.55 µS/cm	0.21 mg/L	1.79 NTU	40.7 mV	25.00 ft	200.00 ml/min
9/14/2021 2:51 PM	30:24	5.40 pH	22.21 °C	655.61 µS/cm	0.06 mg/L	1.79 NTU	35.6 mV	24.95 ft	200.00 ml/min
9/14/2021 2:56 PM	35:24	5.38 pH	22.80 °C	639.99 µS/cm	0.04 mg/L	1.76 NTU	35.5 mV	24.85 ft	200.00 ml/min

## Samples

Sample ID:	Description:
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# PURGING AND SAMPLING FORM

Project #: 166849621	Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>
Well ID #: <u>D6WC-2</u>	Date: <u>9-9-21</u>	Water Level (ft): <u>29.39</u>	Time (WL): <u>1253</u>
Physical Condition of Well: <u>Damaged ballrod</u>		Weather: <u>80°, sun-/</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>52.42</u>	Water Column (ft): <u>23.03</u>	Well Volume (gal): <u>3.75</u>
Start Purge: <u>1255</u>	End Purge: <u>1310</u>	Top of Pump (ft): <u>42.89</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>4.9</u>	
Evacuation Equipment: <u>Dedicated</u>		Purging Personnel: <u>K. Minkora</u>	
SmarTroll serial #: <u>850724</u>		LaMotte serial #: <u>1510-4111</u>	

## Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>1310</u>	<u>clear</u>	<u>no</u>	<u>6.00</u>	<u>772.91</u>	<u>0.20</u>	<u>20.80</u>	<u>109.3</u>	<u>4.19</u>	<u>30.15</u>	<u>320</u>

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater, for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

## Sample Description

Sample ID: D6WC-2      Sample Date/Time: 9-9-21/1310      Metals Date/Time: 9-9-21/1310  
 Duplicate: -      Dup Date/Time: -      Final Turbidity NTU: 4.19  
 Field Blank: -      Blank Date/Time: -      Turbidity Date/Time: 9-9-21/1310

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/ IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)</u>
<u>1</u>	<u>250 mL plastic</u>	<u>--</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>1</u>	<u>500 mL plastic</u>	<u>--</u>	<u>TDS</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: [Signature]

# Low-Flow Test Report:

Test Date / Time: 9/9/2021 12:56:42 PM

Project: Plant McDonough

Operator Name: K. Minkara

<b>Location Name: DGWC-2</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 42.42 ft</b> <b>Total Depth: 52.42 ft</b> <b>Initial Depth to Water: 29.39 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 47 ft</b> <b>Estimated Total Volume Pumped: 4992 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 320 ml/min</b> <b>Final Draw Down: 0.76 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/9/2021 12:56 PM	00:00	6.29 pH	26.10 °C	345.41 µS/cm	4.06 mg/L	1.31 NTU	100.9 mV	29.39 ft	320.00 ml/min
9/9/2021 1:01 PM	05:00	6.02 pH	20.87 °C	355.17 µS/cm	0.67 mg/L	3.52 NTU	92.3 mV	30.11 ft	320.00 ml/min
9/9/2021 1:06 PM	10:00	6.00 pH	20.70 °C	355.33 µS/cm	0.25 mg/L	4.10 NTU	84.6 mV	30.15 ft	320.00 ml/min
9/9/2021 1:07 PM	10:36	5.99 pH	20.69 °C	359.82 µS/cm	0.25 mg/L	4.10 NTU	77.4 mV	30.15 ft	320.00 ml/min
9/9/2021 1:12 PM	15:36	6.00 pH	20.80 °C	372.41 µS/cm	0.20 mg/L	4.19 NTU	109.3 mV	30.15 ft	320.00 ml/min

## Samples

Sample ID:	Description:
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# PURGING AND SAMPLING FORM

Project #: 166849621	Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>
Well ID #: <u>DGWC-5</u>	Date: <u>9/10/21</u>	Water Level (ft): <u>11.18</u>	Time (WL): <u>13:59</u>
Physical Condition of Well: <u>GOOD, OVERGROWN</u>	Weather: <u>SUNNY, 81°F</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>33.23</u>	Water Column (ft): <u>22.05</u>	Well Volume (gal): <u>3.59</u>
Start Purge: <u>14:02</u>	End Purge: <u>14:32</u>	Top of Pump (ft): <u>~28</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>7.5</u>	
Evacuation Equipment: <u>DEDICATED BLADDER</u>		Purging Personnel: <u>J. WAGUESPAK</u>	
SmarTroll serial #: <u>843593</u>		LaMotte serial #: <u>7007-1416</u>	

## Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>14:32</u>	<u>CLEAR</u>	<u>NONE</u>	<u>4.89</u>	<u>942.71</u>	<u>0.44</u>	<u>20.15</u>	<u>551.6</u>	<u>4.41</u>	<u>11.50</u>	<u>250 <math>\frac{mL}{min}</math></u>
			<u>SAMPLED @ 14:32</u>							

Stabilization Criteria: pH  $\pm$  0.1 S.U., Conductivity  $\pm$  5%, Dissolved Oxygen  $\pm$  10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity  $\leq$  5 NTU; Purge volume  $\geq$  3L purge water, water level  $\leq$  0.3 ft; Temp and ORP record only

## Sample Description

Sample ID: DGWC-5      Sample Date/Time: 9/10/21/14:32      Metals Date/Time: 9.10.21/14:32  
 Duplicate: -      Dup Date/Time: -      Final Turbidity NTU: 4.41  
 Field Blank: -      Blank Date/Time: -      Turbidity Date/Time: 9.10.21/14:32

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III/ IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Tl)</u>
<u>1</u>	<u>250 mL plastic</u>	<u>--</u>	<u>Chloride, Fluoride, Sulfate</u>
<u>1</u>	<u>500 mL plastic</u>	<u>--</u>	<u>TDS</u>
<u>2</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228</u>

Signature: [Signature]

# Low-Flow Test Report:

Test Date / Time: 9/10/2021 2:02:23 PM

Project: Plant McDonough

Operator Name: Jude Waguespack

<b>Location Name: DGWC-5</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 23.23 ft</b> <b>Total Depth: 33.23 ft</b> <b>Initial Depth to Water: 11.18 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 28 ft</b> <b>Estimated Total Volume Pumped: 7500 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 0.32 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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## Test Notes:

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/10/2021 2:02 PM	00:00	4.89 pH	27.99 °C	508.90 µS/cm	4.25 mg/L	14.60 NTU	251.2 mV	11.18 ft	250.00 ml/min
9/10/2021 2:07 PM	05:00	4.88 pH	20.47 °C	821.09 µS/cm	1.58 mg/L	12.10 NTU	481.4 mV	11.45 ft	250.00 ml/min
9/10/2021 2:12 PM	10:00	4.88 pH	20.22 °C	904.78 µS/cm	0.84 mg/L	15.70 NTU	552.5 mV	11.50 ft	250.00 ml/min
9/10/2021 2:17 PM	15:00	4.89 pH	20.24 °C	924.80 µS/cm	0.51 mg/L	11.00 NTU	551.5 mV	11.50 ft	250.00 ml/min
9/10/2021 2:22 PM	20:00	4.89 pH	20.13 °C	927.01 µS/cm	0.46 mg/L	6.72 NTU	550.9 mV	11.50 ft	250.00 ml/min
9/10/2021 2:27 PM	25:00	4.89 pH	20.13 °C	933.48 µS/cm	0.44 mg/L	5.28 NTU	469.7 mV	11.50 ft	250.00 ml/min
9/10/2021 2:32 PM	30:00	4.89 pH	20.15 °C	942.71 µS/cm	0.44 mg/L	4.41 NTU	551.6 mV	11.50 ft	250.00 ml/min

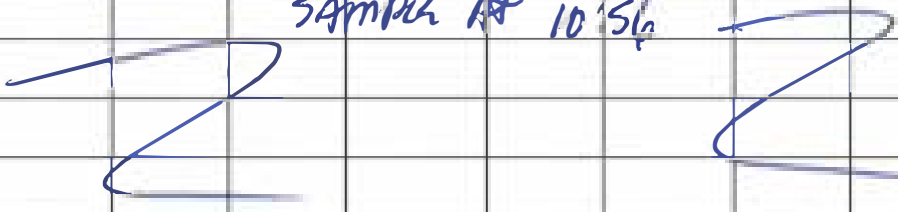
## Samples

Sample ID:	Description:
DGWC-5	

# PURGING AND SAMPLING FORM

Project #: 166849621	Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>
Well ID #: <u>DWBC-48</u>	Date: <u>09/10/21</u>	Water Level (ft): <u>13.24</u>	Time (WL): <u>10:16</u>
Physical Condition of Well:		Weather: <u>CLEAR, 72</u>	
Well Diameter (in): 2	Well Depth (ft): <u>33.49</u>	Water Column (ft): <u>20.25</u>	Well Volume (gal): <u>3.30</u>
Start Purge: <u>10:21</u>	End Purge: <u>10:54</u>	Top of Pump (ft): <u>29</u>	
Evacuation Method: Low-Flow		Volume Removed (L): <u>4.4</u>	
Evacuation Equipment: <u>OXICATORS</u>		Purging Personnel: <u>DVANE FULTON</u>	
SmarTroll serial #: <u>950767</u>		LaMotte serial #: <u>5990-3915</u>	

## Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>10:56</u>	<u>CLEAR</u>	<u>NONE</u>	<u>4.30</u>	<u>1690.22</u>	<u>0.43</u>	<u>20.34</u>	<u>203.1</u>	<u>0.54</u>	<u>13.78</u>	<u>125 m<sup>3</sup>/m</u>
<u>SAMPLE AT 10:56</u>										
										

Stabilization Criteria: pH  $\pm$  0.1 S.U, Conductivity  $\pm$  5%, Dissolved Oxygen  $\pm$  10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity  $\leq$  5 NTU; Purge volume  $\geq$  3L purge water, water level  $\leq$  0.3 ft; Temp and ORP record only

## Sample Description

Sample ID: DWBC-48      Sample Date/Time: 09-10-21/10:56      Metals Date/Time: 09-10-21/10:56  
 Duplicate: DUP-1      Dup Date/Time: 09-10-21/11:30      Final Turbidity NTU: 0.54  
 Field Blank:             Blank Date/Time:             Turbidity Date/Time: 09-10-21/10:56

# Sample Bottles	Container	Preservative	Analyte(s)
<u>2</u>	250 mL plastic	HNO3	Metals App III/ IV (As, B, Ba, Be, Ca, Cd, Cr, Co, Hg, Li, Mo, Pb, Sb, Se, Ti)
<u>2</u>	250 mL plastic	--	Chloride, Fluoride, Sulfate
<u>2</u>	500 mL plastic	--	TDS
<u>4</u>	1 L plastic	HNO3	Radium 226/228

Signature: 

# Low-Flow Test Report:

Test Date / Time: 9/10/2021 10:21:53 AM

Project: Plant McDonough (6)

Operator Name: D Fulton

<b>Location Name: DGWC-48</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 23.49 ft</b> <b>Total Depth: 33.49 ft</b> <b>Initial Depth to Water: 13.24 ft</b>	<b>Pump Type: Dedicated</b> <b>Tubing Type: Polyethylene</b> <b>Pump Intake From TOC: 28 ft</b> <b>Estimated Total Volume Pumped: 4.4 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 125 ml/min</b> <b>Final Draw Down: 0.54 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850767</b>
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## 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	
9/10/2021 10:21 AM	00:00	4.29 pH	22.80 °C	608.06 µS/cm	5.08 mg/L	0.77 NTU	244.2 mV	13.75 ft	225.00 ml/min
9/10/2021 10:26 AM	05:00	4.34 pH	20.57 °C	709.39 µS/cm	0.96 mg/L	1.11 NTU	176.4 mV	13.78 ft	125.00 ml/min
9/10/2021 10:31 AM	10:00	4.33 pH	20.51 °C	687.71 µS/cm	0.71 mg/L	0.66 NTU	221.3 mV	13.75 ft	125.00 ml/min
9/10/2021 10:36 AM	15:00	4.30 pH	20.30 °C	693.96 µS/cm	0.68 mg/L	0.61 NTU	207.4 mV	13.75 ft	125.00 ml/min
9/10/2021 10:41 AM	20:00	4.29 pH	20.26 °C	690.17 µS/cm	0.66 mg/L	0.31 NTU	291.5 mV	13.78 ft	125.00 ml/min
9/10/2021 10:46 AM	25:00	4.30 pH	20.30 °C	691.70 µS/cm	0.52 mg/L	0.21 NTU	212.2 mV	13.78 ft	125.00 ml/min
9/10/2021 10:51 AM	30:00	4.31 pH	20.31 °C	688.77 µS/cm	0.49 mg/L	0.32 NTU	208.7 mV	13.78 ft	125.00 ml/min
9/10/2021 10:56 AM	35:00	4.30 pH	20.34 °C	690.22 µS/cm	0.43 mg/L	0.54 NTU	203.1 mV	13.78 ft	125.00 ml/min

## Samples

Sample ID:	Description:
DWGC-48	Dup-1

**PURGING AND SAMPLING FORM**

Project #: 160849018	Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>
Well ID #: <u>B-37</u>	Date: <u>1-15-21</u>	Water Level (ft): <u>18.03</u>	Time (WL): <u>0830</u>
Physical Condition of Well: <u>Good</u>		Weather: <u>cloudy 45°F</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>5370</u>	Water Column (ft): <u>35.67</u>	Well Volume (gal): <u>581</u>
Start Purge: <u>840</u>	End Purge: <u>940</u>	Top of Pump (ft): <u>~47</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>9.70</u>	
Evacuation Equipment: <u>Pc</u>		Purging Personnel: <u>K.M.K.</u>	
SmarTroll serial #: <u>643331</u>		Lamotte serial #: <u>1603-441</u>	

*Redeveloped on 1/11/21*

**Purge Data/Field Parameters**

Time	Color & Appearance	Odor	pH (S.U.)	Cond (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>840-512</u>	<u>→ 200 uC/m</u>		<u>(7.0)</u>							
<u>830-940</u>	<u>140 uC</u>		<u>(6.3)</u>							
<u>0940</u>	<u>clear</u>	<u>no</u>	<u>3.83</u>	<u>1779.2</u>	<u>0.26</u>	<u>16.02</u>	<u>117.20</u>	<u>3.33</u>	<u>19.09</u>	<u>140</u>
<i>[Handwritten signature]</i>										

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater, for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

**Sample Description**

Sample ID: <u>B-37</u>	Sample Date/Time: <u>1/15/21/940</u>	Metals Date/Time: <u>1/15/21 940</u>
Duplicate: <u>FD</u>	Dup Date/Time: <u>1/15/21</u>	Final Turbidity NTU: <u>3.33</u>
Field Blank: <u>-</u>	Blank Date/Time: <u>-</u>	Turbidity Date/Time: <u>1/15/21 940</u>

# Sample Bottles	Container	Preservative	Analyte(s)
<u>2</u>	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III &amp; IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) (EPA 6020/7470)</u>
<u>2</u>	<u>500 mL plastic</u>	<u>-</u>	<u>Total Dissolved Solids (SM 2540C)</u>
<u>2</u>	<u>250 mL plastic</u>	<u>-</u>	<u>Inorganic Anions (Cl, F, SO<sub>4</sub>) (EPA 300.0)</u>
<u>4</u>	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228 (SW-846 9315/9320)</u>

Signature: [Handwritten Signature]

Product Name: Low-Flow System

Date: 2021-01-11 16:07:13

Project Information:

Operator Name A. McClure  
Company Name Golder Associates  
Project Name Plant McDonough  
Site Name Plant McDonough  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646770  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Waterra  
Tubing Type polyethylene  
Tubing Diameter 0.5 in  
Tubing Length 53 ft

Pump placement from TOC 53 ft

Well Information:

Well ID B-57  
Well diameter 2 in  
Well Total Depth 53.74 ft  
Screen Length 10 ft  
Depth to Water 18.08 ft

Pumping Information:

Final Pumping Rate 1136 mL/min  
Total System Volume 2.136379 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 158.64 in  
Total Volume Pumped 226 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:41:39	12320.79	18.06	3.97	1811.29	175.00	31.63	0.26	136.62
Last 5	15:46:39	12620.79	17.79	3.97	1806.75	--	--	0.24	135.66
Last 5	15:51:39	12920.79	17.70	3.97	1810.91	--	--	0.24	134.47
Last 5	15:56:39	13220.78	17.44	3.99	1806.41	132.00	31.33	0.21	132.82
Last 5	16:01:39	13520.78	17.80	4.00	1808.73	91.00	31.30	0.21	130.92
Variance 0			-0.09	0.01	4.16			-0.00	-1.18
Variance 1			-0.26	0.01	-4.50			-0.02	-1.65
Variance 2			0.36	0.01	2.32			-0.00	-1.91

Notes

Grab Samples

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